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: L729026

For: URS Corporation - Tucson AZ - 1088308
Holloman AFB

L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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Quality Control Summary
SDG: L729026

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.

Total Solids by Method 2540 G-2011

Laboratory Control Sample

Samples L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG750435. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Sample Duplicate Analysis

For analytical batch WG750435 sample duplicate analysis was performed on sample L729024-01. The relative percent differences were within the method limits for 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.

pH by Method 9045D

Laboratory Control Sample

Samples L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG750477. 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 Duplicate Analysis

For analytical batch WG750477 sample duplicate analysis was performed on sample L729012-04. The relative percent differences were within the method limits for target analytes reported from this batch.

For analytical batch WG750477 sample duplicate analysis was performed on sample L729030-05. The relative percent differences were within the method limits for target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG750477 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Mercury by Method 7471

Laboratory Control Sample

Samples L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG750208. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG750208 matrix spike/matrix spike duplicate analysis was performed on sample L729032-07. The matrix spike recoveries were below laboratory control limits for Mercury. The relative percent difference exceeded laboratory limits for Mercury. Mercury did not meet the method limit criteria for the post digest spike.

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Quality Control Summary
SDG: L729026
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

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 10/23/2014. The initial calibration and continuing calibration verification standards were within method limits.

Trace Metals by Method 6010B
Laboratory Control Sample
Samples L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG750261. 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 L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG752044. 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 WG750261 matrix spike/matrix spike duplicate analysis was performed on sample L729024-01. 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 exceeded laboratory limits for Aluminum. Aluminum did not meet the method limit criteria for the serial dilution.

For analytical batch WG752044 matrix spike/matrix spike duplicate analysis was performed on sample L729024-01. 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 ICP12 was calibrated on 10/30/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICP11 was calibrated on 11/3/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICP11 was calibrated on 11/4/2014. The initial calibration and continuing calibration verification standards were within method limits.

Volatile TPH by Method 8015D/GRO
Laboratory Control Sample
Sample L729026-04 was analyzed in analytical batch WG750198. 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.

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Quality Control Summary
SDG: L729026

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

Samples L729026-01, -02, and -03 were analyzed in analytical batch WG750203. 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 L729026-06 was analyzed in analytical batch WG750790. 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.

Sample L729026-05 was analyzed in analytical batch WG751264. 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 WG750198 matrix spike/matrix spike duplicate analysis was performed on sample L728690-05. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG750203 matrix spike/matrix spike duplicate analysis was performed on sample L728909-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG750790 matrix spike/matrix spike duplicate analysis was performed on sample L729396-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG751264 matrix spike/matrix spike duplicate analysis was performed on sample L729965-01. 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 VOCGC10 was calibrated on 9/24/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCGC12 was calibrated on 8/21/2014. 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.

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Quality Control Summary
SDG: L729026

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

Volatile Organic Compounds by Method 8260B

Laboratory Control Sample

Samples L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG750239. 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 L729026-04 was analyzed in analytical batch WG751179. 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 WG750239 matrix spike/matrix spike duplicate analysis was performed on sample L729021-02. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG751179 matrix spike/matrix spike duplicate analysis was performed on sample L729302-05. 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 VOCMS21 was calibrated on 9/16/2014. 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.

Semi-Volatiles by Method 8270C

Laboratory Control Sample

Samples L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG750215. 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 exceeded laboratory limits for Benzylbutyl phthalate.

Samples L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG750213. 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 WG750215 matrix spike/matrix spike duplicate analysis was performed on sample L729021-02. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729026

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

For analytical batch WG750213 matrix spike/matrix spike duplicate analysis was performed on sample L729021-02. 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 BNAMS4 was calibrated on 10/16/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument SVGCMS7 was calibrated on 10/22/2014. 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 L729026-01, -02, -03, -05, and -06 were analyzed in analytical batch WG750211. 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 WG750211 matrix spike/matrix spike duplicate analysis was performed on sample L729021-02. 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 SVGC16 was calibrated on 10/23/2014. 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 13:02:28 -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

Tuesday November 18, 2014

Report Number: L729026
Samples Received: 10/22/14
Client Project: 23446543.0055AA

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

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12065 Lebanon Rd.
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(615) 758-5858
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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-01

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-DS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.4				su		9045D	10/24/14	1
Total Solids	TSOLIDS	77.6	.0333			%		2540 G-2	10/26/14	1
Mercury	7439-97-6	U	.0036	0.013	0.026	mg/kg		7471	10/23/14	1
Aluminum	7429-90-5	6000	23	32.	64.	mg/kg		6010B	10/30/14	5
Antimony	7440-36-0	U	4.8	6.4	13.	mg/kg		6010B	10/30/14	5
Arsenic	7440-38-2	U	4.1	6.4	13.	mg/kg		6010B	10/30/14	5
Barium	7440-39-3	46.	1.1	1.6	3.2	mg/kg		6010B	10/30/14	5
Beryllium	7440-41-7	U	.45	0.64	1.3	mg/kg		6010B	10/30/14	5
Cadmium	7440-43-9	U	.45	1.6	3.2	mg/kg		6010B	10/30/14	5
Chromium	7440-47-3	6.0	.9	3.2	6.4	mg/kg	J	6010B	10/30/14	5
Cobalt	7440-48-4	2.3	1.5	3.2	6.4	mg/kg	J	6010B	10/30/14	5
Copper	7440-50-8	U	3.4	6.4	13.	mg/kg		6010B	10/30/14	5
Lead	7439-92-1	2.6	1.2	1.6	3.2	mg/kg	J	6010B	10/30/14	5
Manganese	7439-96-5	77.	.77	3.2	6.4	mg/kg		6010B	10/30/14	5
Nickel	7440-02-0	4.5	3.1	6.4	13.	mg/kg	J	6010B	10/30/14	5
Selenium	7782-49-2	U	4.8	6.4	13.	mg/kg		6010B	10/30/14	5
Silver	7440-22-4	U	1.8	3.2	6.4	mg/kg		6010B	10/30/14	5
Thallium	7440-28-0	U	4.1	6.4	13.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	15.	1.5	6.4	13.	mg/kg		6010B	10/30/14	5
Zinc	7440-66-6	15.	3.9	16.	32.	mg/kg	J	6010B	10/30/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.032	0.075	0.15	mg/kg		8015D/GR	10/24/14	1.16
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	98.7				% Rec.		8015D/GR	10/24/14	1.16
Volatile Organics										
Acetone	67-64-1	0.036	.014	0.035	0.070	mg/kg	J	8260B	10/29/14	1.08
Benzene	71-43-2	0.0023	.00037	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Bromobenzene	108-86-1	U	.0004	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Bromochloromethane	74-97-5	U	.00054	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Bromodichloromethane	75-27-4	U	.00035	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Bromoform	75-25-2	U	.00059	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Bromomethane	74-83-9	U	.0018	0.0035	0.0070	mg/kg		8260B	10/29/14	1.08
n-Butylbenzene	104-51-8	U	.00036	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
sec-Butylbenzene	135-98-8	U	.00028	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
tert-Butylbenzene	98-06-6	U	.00028	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Carbon Disulfide	75-15-0	U	.00039	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Carbon tetrachloride	56-23-5	U	.00045	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Chlorobenzene	108-90-7	U	.0003	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Chlorodibromomethane	124-48-1	U	.00052	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Chloroethane	75-00-3	U	.0013	0.0035	0.0070	mg/kg		8260B	10/29/14	1.08
Chloroform	67-66-3	U	.00032	0.0035	0.0070	mg/kg		8260B	10/29/14	1.08

Results listed are dry weight basis.
U = Not Detected at the LOD
Note:
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The reported analytical results relate only to the sample submitted
Reported: 11/14/14 18:35 Revised: 11/18/14 11:01
L729026-01 (ICP METALS) - Dilution due to matrix
L729026-01 (PH) - 6.4@20.5c

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-01

Site ID :

Project # : 23446543.0055AA

Date Received : October 22, 2014
Description : Holloman AFB

Sample ID : TU503-SB01-DS01

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00052	0.00070	0.0035	mg/kg		8260B	10/29/14	1.08
2-Chlorotoluene	95-49-8	U	.00041	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
4-Chlorotoluene	106-43-4	U	.00034	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0014	0.0035	0.0070	mg/kg		8260B	10/29/14	1.08
1,2-Dibromoethane	106-93-4	U	.00048	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Dibromomethane	74-95-3	U	.00053	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,2-Dichlorobenzene	95-50-1	U	.00042	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,3-Dichlorobenzene	541-73-1	U	.00034	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,4-Dichlorobenzene	106-46-7	U	.00031	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Dichlorodifluoromethane	75-71-8	U	.00099	0.0035	0.0070	mg/kg		8260B	10/29/14	1.08
1,1-Dichloroethane	75-34-3	U	.00027	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,2-Dichloroethane	107-06-2	U	.00037	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,1-Dichloroethene	75-35-4	U	.00042	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
cis-1,2-Dichloroethene	156-59-2	U	.00032	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
trans-1,2-Dichloroethene	156-60-5	U	.00036	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,2-Dichloropropane	78-87-5	U	.0005	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,1-Dichloropropene	563-58-6	U	.00044	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,3-Dichloropropane	142-28-9	U	.00028	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
cis-1,3-Dichloropropene	10061-01-5	U	.00036	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
trans-1,3-Dichloropropene	10061-02-6	U	.00037	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
2,2-Dichloropropane	594-20-7	U	.00039	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Ethylbenzene	100-41-4	U	.00041	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Hexachloro-1,3-butadiene	87-68-3	U	.00048	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
2-Hexanone	591-78-6	U	.0053	0.0070	0.014	mg/kg		8260B	10/29/14	1.08
Isopropylbenzene	98-82-8	U	.00034	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
p-Isopropyltoluene	99-87-6	U	.00028	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
2-Butanone (MEK)	78-93-3	U	.0064	0.0070	0.014	mg/kg		8260B	10/29/14	1.08
Methylene Chloride	75-09-2	U	.0014	0.0035	0.0070	mg/kg		8260B	10/29/14	1.08
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0026	0.0070	0.014	mg/kg		8260B	10/29/14	1.08
Methyl tert-butyl ether	1634-04-4	U	.0003	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Naphthalene	91-20-3	U	.0014	0.0035	0.0070	mg/kg		8260B	10/29/14	1.08
n-Propylbenzene	103-65-1	U	.00028	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Styrene	100-42-5	U	.00032	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,1,1,2-Tetrachloroethane	630-20-6	U	.00036	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,1,2,2-Tetrachloroethane	79-34-5	U	.0005	0.0010	0.0014	mg/kg		8260B	10/29/14	1.08
Tetrachloroethene	127-18-4	U	.00039	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Toluene	108-88-3	0.0019	.0006	0.0035	0.0070	mg/kg	J	8260B	10/29/14	1.08
1,2,3-Trichlorobenzene	87-61-6	U	.00042	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,2,4-Trichlorobenzene	120-82-1	U	.00054	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,1,1-Trichloroethane	71-55-6	U	.0004	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,1,2-Trichloroethane	79-00-5	U	.00039	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Trichloroethene	79-01-6	U	.00039	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Trichlorofluoromethane	75-69-4	U	.00053	0.0035	0.0070	mg/kg		8260B	10/29/14	1.08
1,2,3-Trichloropropane	96-18-4	U	.001	0.0014	0.0035	mg/kg		8260B	10/29/14	1.08
1,2,4-Trimethylbenzene	95-63-6	U	.0003	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08

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Reported: 11/14/14 18:35 Revised: 11/18/14 11:01
L729026-01 (ICP METALS) - Dilution due to matrix
L729026-01 (PH) - 6.4@20.5c

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

November 18,2014

ESC Sample # : L729026-01

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-DS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.00048	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
m&p-Xylene	1330-20-7	U	.001	0.0014	0.0028	mg/kg		8260B	10/29/14	1.08
Vinyl chloride	75-01-4	U	.0004	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
1,3,5-Trimethylbenzene	108-67-8	U	.00037	0.00070	0.0014	mg/kg		8260B	10/29/14	1.08
Surrogate Recovery										
Toluene-d8	2037-26-5	96.4				% Rec.		8260B	10/29/14	1.08
Dibromofluoromethane	1868-53-7	101.				% Rec.		8260B	10/29/14	1.08
4-Bromofluorobenzene	460-00-4	94.3				% Rec.		8260B	10/29/14	1.08
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.1	2.6	5.2	mg/kg		8015	10/28/14	1
C28-C40 Oil Range		U	.35	2.6	5.2	mg/kg		8015	10/28/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	68.5				% Rec.		8015	10/28/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Acenaphthene	83-32-9	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Acenaphthylene	208-96-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(a)anthracene	56-55-3	0.0013	.00077	0.0026	0.0077	mg/kg	J	8270C-SI	10/25/14	1
Benzo(a)pyrene	50-32-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(b)fluoranthene	205-99-2	0.0010	.00077	0.0026	0.0077	mg/kg	J	8270C-SI	10/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(k)fluoranthene	207-08-9	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Chrysene	218-01-9	0.00080	.00077	0.0026	0.0077	mg/kg	J	8270C-SI	10/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Fluoranthene	206-44-0	0.00082	.00077	0.0026	0.0077	mg/kg	J	8270C-SI	10/25/14	1
Fluorene	86-73-7	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Naphthalene	91-20-3	0.0026	.00077	0.0077	0.026	mg/kg	J	8270C-SI	10/25/14	1
Phenanthrene	85-01-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Pyrene	129-00-0	0.00077	.00077	0.0026	0.0077	mg/kg	J	8270C-SI	10/25/14	1
2-Methylnaphthalene	91-57-6	U	.00082	0.0077	0.026	mg/kg		8270C-SI	10/25/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	82.4				% Rec.		8270C-SI	10/25/14	1
Nitrobenzene-d5	4165-60-0	77.1				% Rec.		8270C-SI	10/25/14	1
2-Fluorobiphenyl	321-60-8	82.3				% Rec.		8270C-SI	10/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.0099	0.22	0.43	mg/kg		8270C	10/27/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.0098	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzyl Alcohol	100-51-6	U	.0097	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzoic acid	65-85-0	U	.15	2.2	4.3	mg/kg		8270C	10/27/14	1
Carbazole	86-74-8	U	.0067	0.22	0.43	mg/kg		8270C	10/27/14	1

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L729026-01 (ICP METALS) - Dilution due to matrix
L729026-01 (PH) - 6.4@20.5c

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-01

Site ID :

Project # : 23446543.0055AA

Date Received : October 22, 2014
Description : Holloman AFB

Sample ID : TU503-SB01-DS01

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0067	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Bromophenyl-phenylether	101-55-3	U	.014	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0081	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Chloronaphthalene	91-58-7	U	.0082	0.22	0.43	mg/kg		8270C	10/27/14	1
3,3-Dichlorobenzidine	91-94-1	U	.1	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dinitrotoluene	121-14-2	U	.0079	0.22	0.43	mg/kg		8270C	10/27/14	1
2,6-Dinitrotoluene	606-20-2	U	.0095	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachlorobenzene	118-74-1	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachloroethane	67-72-1	U	.017	0.22	0.43	mg/kg		8270C	10/27/14	1
Isophorone	78-59-1	U	.0067	0.22	0.43	mg/kg		8270C	10/27/14	1
Nitrobenzene	98-95-3	U	.009	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodimethylamine	62-75-9	U	.084	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0076	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzylbutyl phthalate	85-68-7	U	.013	0.22	0.43	mg/kg	J3	8270C	10/27/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.015	0.22	0.43	mg/kg		8270C	10/27/14	1
Di-n-butyl phthalate	84-74-2	U	.014	0.22	0.43	mg/kg		8270C	10/27/14	1
Diethyl phthalate	84-66-2	U	.0089	0.22	0.43	mg/kg		8270C	10/27/14	1
Dimethyl phthalate	131-11-3	U	.007	0.22	0.43	mg/kg		8270C	10/27/14	1
Di-n-octyl phthalate	117-84-0	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0062	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Chlorophenol	95-57-8	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dichlorophenol	120-83-2	U	.0096	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dimethylphenol	105-67-9	U	.06	0.22	0.43	mg/kg		8270C	10/27/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.15	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dinitrophenol	51-28-5	U	.13	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Methylphenol	95-48-7	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.01	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Nitrophenol	88-75-5	U	.017	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Nitrophenol	100-02-7	U	.067	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Chloroaniline	106-47-8	U	.0045	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Nitroaniline	88-74-4	U	.0097	0.22	0.43	mg/kg		8270C	10/27/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0018	0.22	0.43	mg/kg		8270C	10/27/14	1
3-Nitroaniline	99-09-2	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Nitroaniline	100-01-6	U	.0082	0.22	0.43	mg/kg		8270C	10/27/14	1
Pentachlorophenol	87-86-5	U	.062	0.22	0.43	mg/kg		8270C	10/27/14	1
Phenol	108-95-2	U	.009	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4,5-Trichlorophenol	95-95-4	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4,6-Trichlorophenol	88-06-2	U	.01	0.22	0.43	mg/kg		8270C	10/27/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	59.1				% Rec.		8270C	10/27/14	1
Phenol-d5	4165-62-2	58.1				% Rec.		8270C	10/27/14	1

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L729026-01 (ICP METALS) - Dilution due to matrix
L729026-01 (PH) - 6.4@20.5c

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

Tax I.D. 62-0814289

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-01

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-DS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	54.1				% Rec.		8270C	10/27/14	1
2-Fluorobiphenyl	321-60-8	63.6				% Rec.		8270C	10/27/14	1
2,4,6-Tribromophenol	118-79-6	69.1				% Rec.		8270C	10/27/14	1
p-Terphenyl-d14	1718-51-0	58.6				% Rec.		8270C	10/27/14	1

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-02

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-NS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.4				su		9045D	10/24/14	1
Total Solids	TSOLIDS	77.6	.0333			%		2540 G-2	10/26/14	1
Mercury	7439-97-6	U	.0036	0.013	0.026	mg/kg		7471	10/23/14	1
Aluminum	7429-90-5	3100	23	32.	64.	mg/kg		6010B	10/30/14	5
Antimony	7440-36-0	U	4.8	6.4	13.	mg/kg		6010B	10/30/14	5
Arsenic	7440-38-2	U	4.1	6.4	13.	mg/kg		6010B	10/30/14	5
Barium	7440-39-3	26.	1.1	1.6	3.2	mg/kg		6010B	10/30/14	5
Beryllium	7440-41-7	U	.45	0.64	1.3	mg/kg		6010B	10/30/14	5
Cadmium	7440-43-9	U	.45	1.6	3.2	mg/kg		6010B	10/30/14	5
Chromium	7440-47-3	3.1	.9	3.2	6.4	mg/kg	J	6010B	10/30/14	5
Cobalt	7440-48-4	U	1.5	3.2	6.4	mg/kg		6010B	10/30/14	5
Copper	7440-50-8	U	3.4	6.4	13.	mg/kg		6010B	10/30/14	5
Lead	7439-92-1	1.3	1.2	1.6	3.2	mg/kg	J	6010B	10/30/14	5
Manganese	7439-96-5	35.	.77	3.2	6.4	mg/kg		6010B	10/30/14	5
Nickel	7440-02-0	U	3.1	6.4	13.	mg/kg		6010B	10/30/14	5
Selenium	7782-49-2	U	4.8	6.4	13.	mg/kg		6010B	10/30/14	5
Silver	7440-22-4	U	1.8	3.2	6.4	mg/kg		6010B	10/30/14	5
Thallium	7440-28-0	U	4.1	6.4	13.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	9.0	1.5	6.4	13.	mg/kg	J	6010B	10/30/14	5
Zinc	7440-66-6	9.1	3.9	16.	32.	mg/kg	J	6010B	10/30/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.028	0.064	0.13	mg/kg		8015D/GR	10/24/14	1
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	98.5				% Rec.		8015D/GR	10/24/14	1
Volatile Organics										
Acetone	67-64-1	0.037	.013	0.032	0.064	mg/kg	J	8260B	10/29/14	1
Benzene	71-43-2	0.0018	.00035	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromobenzene	108-86-1	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromochloromethane	74-97-5	U	.0005	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromodichloromethane	75-27-4	U	.00032	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromoform	75-25-2	U	.00054	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromomethane	74-83-9	U	.0017	0.0032	0.0064	mg/kg		8260B	10/29/14	1
n-Butylbenzene	104-51-8	U	.00034	0.00064	0.0013	mg/kg		8260B	10/29/14	1
sec-Butylbenzene	135-98-8	U	.00026	0.00064	0.0013	mg/kg		8260B	10/29/14	1
tert-Butylbenzene	98-06-6	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Carbon Disulfide	75-15-0	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Carbon tetrachloride	56-23-5	U	.00042	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Chlorobenzene	108-90-7	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Chlorodibromomethane	124-48-1	U	.00048	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Chloroethane	75-00-3	U	.0012	0.0032	0.0064	mg/kg		8260B	10/29/14	1
Chloroform	67-66-3	U	.0003	0.0032	0.0064	mg/kg		8260B	10/29/14	1

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L729026-02 (PH) - 6.4@20.4c
L729026-02 (ICP METALS) - Dilution due to matrix

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

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-02

Site ID :

Project # : 23446543.0055AA

Date Received : October 22, 2014
Description : Holloman AFB

Sample ID : TU503-SB01-NS01

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00049	0.00064	0.0032	mg/kg		8260B	10/29/14	1
2-Chlorotoluene	95-49-8	U	.00039	0.00064	0.0013	mg/kg		8260B	10/29/14	1
4-Chlorotoluene	106-43-4	U	.00031	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0013	0.0032	0.0064	mg/kg		8260B	10/29/14	1
1,2-Dibromoethane	106-93-4	U	.00044	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Dibromomethane	74-95-3	U	.00049	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichlorobenzene	95-50-1	U	.00039	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,3-Dichlorobenzene	541-73-1	U	.00031	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,4-Dichlorobenzene	106-46-7	U	.0003	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Dichlorodifluoromethane	75-71-8	U	.00091	0.0032	0.0064	mg/kg		8260B	10/29/14	1
1,1-Dichloroethane	75-34-3	U	.00026	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichloroethane	107-06-2	U	.00034	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1-Dichloroethene	75-35-4	U	.00039	0.00064	0.0013	mg/kg		8260B	10/29/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00031	0.00064	0.0013	mg/kg		8260B	10/29/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00034	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichloropropane	78-87-5	U	.00046	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1-Dichloropropene	563-58-6	U	.00041	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,3-Dichloropropane	142-28-9	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00034	0.00064	0.0013	mg/kg		8260B	10/29/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00035	0.00064	0.0013	mg/kg		8260B	10/29/14	1
2,2-Dichloropropane	594-20-7	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Ethylbenzene	100-41-4	U	.00039	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00044	0.00064	0.0013	mg/kg		8260B	10/29/14	1
2-Hexanone	591-78-6	U	.0049	0.0064	0.013	mg/kg		8260B	10/29/14	1
Isopropylbenzene	98-82-8	U	.00031	0.00064	0.0013	mg/kg		8260B	10/29/14	1
p-Isopropyltoluene	99-87-6	U	.00026	0.00064	0.0013	mg/kg		8260B	10/29/14	1
2-Butanone (MEK)	78-93-3	U	.006	0.0064	0.013	mg/kg		8260B	10/29/14	1
Methylene Chloride	75-09-2	U	.0013	0.0032	0.0064	mg/kg		8260B	10/29/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0024	0.0064	0.013	mg/kg		8260B	10/29/14	1
Methyl tert-butyl ether	1634-04-4	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Naphthalene	91-20-3	U	.0013	0.0032	0.0064	mg/kg		8260B	10/29/14	1
n-Propylbenzene	103-65-1	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Styrene	100-42-5	U	.0003	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00034	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00046	0.00097	0.0013	mg/kg		8260B	10/29/14	1
Tetrachloroethene	127-18-4	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Toluene	108-88-3	0.0017	.00055	0.0032	0.0064	mg/kg	J	8260B	10/29/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.0004	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.0005	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1,1-Trichloroethane	71-55-6	U	.00037	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1,2-Trichloroethane	79-00-5	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Trichloroethene	79-01-6	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Trichlorofluoromethane	75-69-4	U	.00049	0.0032	0.0064	mg/kg		8260B	10/29/14	1
1,2,3-Trichloropropane	96-18-4	U	.00095	0.0013	0.0032	mg/kg		8260B	10/29/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1

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L729026-02 (PH) - 6.4@20.4c
L729026-02 (ICP METALS) - Dilution due to matrix

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(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

November 18,2014

ESC Sample # : L729026-02

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-NS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.00044	0.00064	0.0013	mg/kg		8260B	10/29/14	1
m&p-Xylene	1330-20-7	U	.00093	0.0013	0.0026	mg/kg		8260B	10/29/14	1
Vinyl chloride	75-01-4	U	.00037	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00035	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	95.8				% Rec.		8260B	10/29/14	1
Dibromofluoromethane	1868-53-7	102.				% Rec.		8260B	10/29/14	1
4-Bromofluorobenzene	460-00-4	91.9				% Rec.		8260B	10/29/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.1	2.6	5.2	mg/kg		8015	10/28/14	1
C28-C40 Oil Range		U	.35	2.6	5.2	mg/kg		8015	10/28/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	65.2				% Rec.		8015	10/28/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Acenaphthene	83-32-9	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Acenaphthylene	208-96-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(a)anthracene	56-55-3	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(a)pyrene	50-32-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(b)fluoranthene	205-99-2	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(k)fluoranthene	207-08-9	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Chrysene	218-01-9	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Fluoranthene	206-44-0	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Fluorene	86-73-7	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Naphthalene	91-20-3	0.0013	.00077	0.0077	0.026	mg/kg	J	8270C-SI	10/25/14	1
Phenanthrene	85-01-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Pyrene	129-00-0	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
2-Methylnaphthalene	91-57-6	U	.00082	0.0077	0.026	mg/kg		8270C-SI	10/25/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	87.9				% Rec.		8270C-SI	10/25/14	1
Nitrobenzene-d5	4165-60-0	84.4				% Rec.		8270C-SI	10/25/14	1
2-Fluorobiphenyl	321-60-8	87.6				% Rec.		8270C-SI	10/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.0099	0.22	0.43	mg/kg		8270C	10/27/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.0098	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzyl Alcohol	100-51-6	U	.0097	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzoic acid	65-85-0	U	.15	2.2	4.3	mg/kg		8270C	10/27/14	1
Carbazole	86-74-8	U	.0067	0.22	0.43	mg/kg		8270C	10/27/14	1

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L729026-02 (PH) - 6.4@20.4c
L729026-02 (ICP METALS) - Dilution due to matrix

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-02

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-NS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0067	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Bromophenyl-phenylether	101-55-3	U	.014	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0081	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Chloronaphthalene	91-58-7	U	.0082	0.22	0.43	mg/kg		8270C	10/27/14	1
3,3-Dichlorobenzidine	91-94-1	U	.1	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dinitrotoluene	121-14-2	U	.0079	0.22	0.43	mg/kg		8270C	10/27/14	1
2,6-Dinitrotoluene	606-20-2	U	.0095	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachlorobenzene	118-74-1	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachloroethane	67-72-1	U	.017	0.22	0.43	mg/kg		8270C	10/27/14	1
Isophorone	78-59-1	U	.0067	0.22	0.43	mg/kg		8270C	10/27/14	1
Nitrobenzene	98-95-3	U	.009	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodimethylamine	62-75-9	U	.084	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0076	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzylbutyl phthalate	85-68-7	U	.013	0.22	0.43	mg/kg	J3	8270C	10/27/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.015	0.22	0.43	mg/kg		8270C	10/27/14	1
Di-n-butyl phthalate	84-74-2	U	.014	0.22	0.43	mg/kg		8270C	10/27/14	1
Diethyl phthalate	84-66-2	U	.0089	0.22	0.43	mg/kg		8270C	10/27/14	1
Dimethyl phthalate	131-11-3	U	.007	0.22	0.43	mg/kg		8270C	10/27/14	1
Di-n-octyl phthalate	117-84-0	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0062	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Chlorophenol	95-57-8	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dichlorophenol	120-83-2	U	.0096	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dimethylphenol	105-67-9	U	.06	0.22	0.43	mg/kg		8270C	10/27/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.15	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dinitrophenol	51-28-5	U	.13	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Methylphenol	95-48-7	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.01	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Nitrophenol	88-75-5	U	.017	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Nitrophenol	100-02-7	U	.067	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Chloroaniline	106-47-8	U	.0045	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Nitroaniline	88-74-4	U	.0097	0.22	0.43	mg/kg		8270C	10/27/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0018	0.22	0.43	mg/kg		8270C	10/27/14	1
3-Nitroaniline	99-09-2	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Nitroaniline	100-01-6	U	.0082	0.22	0.43	mg/kg		8270C	10/27/14	1
Pentachlorophenol	87-86-5	U	.062	0.22	0.43	mg/kg		8270C	10/27/14	1
Phenol	108-95-2	U	.009	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4,5-Trichlorophenol	95-95-4	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4,6-Trichlorophenol	88-06-2	U	.01	0.22	0.43	mg/kg		8270C	10/27/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	60.5				% Rec.		8270C	10/27/14	1
Phenol-d5	4165-62-2	60.6				% Rec.		8270C	10/27/14	1

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-02

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-NS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	59.4				% Rec.		8270C	10/27/14	1
2-Fluorobiphenyl	321-60-8	67.5				% Rec.		8270C	10/27/14	1
2,4,6-Tribromophenol	118-79-6	73.4				% Rec.		8270C	10/27/14	1
p-Terphenyl-d14	1718-51-0	58.9				% Rec.		8270C	10/27/14	1

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REPORT OF ANALYSIS

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

November 18, 2014

ESC Sample # : L729026-03

Site ID :

Project # : 23446543.0055AA

Date Received : October 22, 2014
Description : Holloman AFB

Sample ID : TU503-SB01-NS02

Collected By :
Collection Date : 10/20/14 16:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.4				su		9045D	10/24/14	1
Total Solids	TSOLIDS	76.5	.0333			%		2540 G-2	10/26/14	1
Mercury	7439-97-6	U	.0037	0.013	0.026	mg/kg		7471	10/23/14	1
Aluminum	7429-90-5	3800	23	33.	65.	mg/kg		6010B	10/30/14	5
Antimony	7440-36-0	U	4	6.5	13.	mg/kg		6010B	10/30/14	5
Arsenic	7440-38-2	U	4.2	6.5	13.	mg/kg		6010B	10/30/14	5
Barium	7440-39-3	37.	1.1	1.6	3.3	mg/kg		6010B	10/30/14	5
Beryllium	7440-41-7	U	.46	0.65	1.3	mg/kg		6010B	10/30/14	5
Cadmium	7440-43-9	U	.46	1.6	3.3	mg/kg		6010B	10/30/14	5
Chromium	7440-47-3	3.9	.92	3.3	6.5	mg/kg	J	6010B	10/30/14	5
Cobalt	7440-48-4	U	1.6	3.3	6.5	mg/kg		6010B	10/30/14	5
Copper	7440-50-8	U	3.4	6.5	13.	mg/kg		6010B	10/30/14	5
Lead	7439-92-1	2.6	1.2	1.6	3.3	mg/kg	J	6010B	10/30/14	5
Manganese	7439-96-5	48.	.78	3.3	6.5	mg/kg		6010B	10/30/14	5
Nickel	7440-02-0	U	3.1	6.5	13.	mg/kg		6010B	10/30/14	5
Selenium	7782-49-2	U	4.8	6.5	13.	mg/kg		6010B	10/30/14	5
Silver	7440-22-4	U	1.8	3.3	6.5	mg/kg		6010B	10/30/14	5
Thallium	7440-28-0	U	4.2	6.5	13.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	5.5	1.6	6.5	13.	mg/kg	J	6010B	10/30/14	5
Zinc	7440-66-6	11.	3.9	16.	33.	mg/kg	J	6010B	10/30/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.029	0.065	0.13	mg/kg		8015D/GR	10/24/14	1
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	100.				% Rec.		8015D/GR	10/24/14	1
Volatile Organics										
Acetone	67-64-1	0.024	.013	0.033	0.065	mg/kg	J	8260B	10/29/14	1
Benzene	71-43-2	0.0040	.00035	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromobenzene	108-86-1	U	.00037	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromochloromethane	74-97-5	U	.00051	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromodichloromethane	75-27-4	U	.00033	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromoform	75-25-2	U	.00055	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromomethane	74-83-9	U	.0017	0.0033	0.0065	mg/kg		8260B	10/29/14	1
n-Butylbenzene	104-51-8	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
sec-Butylbenzene	135-98-8	U	.00026	0.00065	0.0013	mg/kg		8260B	10/29/14	1
tert-Butylbenzene	98-06-6	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Carbon Disulfide	75-15-0	U	.00037	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Carbon tetrachloride	56-23-5	U	.00043	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Chlorobenzene	108-90-7	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Chlorodibromomethane	124-48-1	U	.00048	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Chloroethane	75-00-3	U	.0012	0.0033	0.0065	mg/kg		8260B	10/29/14	1
Chloroform	67-66-3	U	.0003	0.0033	0.0065	mg/kg		8260B	10/29/14	1

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L729026-03 (ICP METALS) - Dilution due to matrix
L729026-03 (PH) - 6.4@20.4c

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

November 18, 2014

ESC Sample # : L729026-03

Site ID :

Project # : 23446543.0055AA

Date Received : October 22, 2014
Description : Holloman AFB

Sample ID : TU503-SB01-NS02

Collected By :
Collection Date : 10/20/14 16:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.0005	0.00065	0.0033	mg/kg		8260B	10/29/14	1
2-Chlorotoluene	95-49-8	U	.00039	0.00065	0.0013	mg/kg		8260B	10/29/14	1
4-Chlorotoluene	106-43-4	U	.00031	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0013	0.0033	0.0065	mg/kg		8260B	10/29/14	1
1,2-Dibromoethane	106-93-4	U	.00044	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Dibromomethane	74-95-3	U	.0005	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichlorobenzene	95-50-1	U	.00039	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,3-Dichlorobenzene	541-73-1	U	.00031	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,4-Dichlorobenzene	106-46-7	U	.0003	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Dichlorodifluoromethane	75-71-8	U	.00093	0.0033	0.0065	mg/kg		8260B	10/29/14	1
1,1-Dichloroethane	75-34-3	U	.00026	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichloroethane	107-06-2	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1-Dichloroethene	75-35-4	U	.00039	0.00065	0.0013	mg/kg		8260B	10/29/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00031	0.00065	0.0013	mg/kg		8260B	10/29/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichloropropane	78-87-5	U	.00047	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1-Dichloropropene	563-58-6	U	.00042	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,3-Dichloropropane	142-28-9	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00035	0.00065	0.0013	mg/kg		8260B	10/29/14	1
2,2-Dichloropropane	594-20-7	U	.00037	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Ethylbenzene	100-41-4	0.00085	.00039	0.00065	0.0013	mg/kg	J	8260B	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00044	0.00065	0.0013	mg/kg		8260B	10/29/14	1
2-Hexanone	591-78-6	U	.005	0.0065	0.013	mg/kg		8260B	10/29/14	1
Isopropylbenzene	98-82-8	U	.00031	0.00065	0.0013	mg/kg		8260B	10/29/14	1
p-Isopropyltoluene	99-87-6	U	.00026	0.00065	0.0013	mg/kg		8260B	10/29/14	1
2-Butanone (MEK)	78-93-3	U	.0061	0.0065	0.013	mg/kg		8260B	10/29/14	1
Methylene Chloride	75-09-2	U	.0013	0.0033	0.0065	mg/kg		8260B	10/29/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0025	0.0065	0.013	mg/kg		8260B	10/29/14	1
Methyl tert-butyl ether	1634-04-4	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Naphthalene	91-20-3	U	.0013	0.0033	0.0065	mg/kg		8260B	10/29/14	1
n-Propylbenzene	103-65-1	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Styrene	100-42-5	U	.0003	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00047	0.00098	0.0013	mg/kg		8260B	10/29/14	1
Tetrachloroethene	127-18-4	U	.00037	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Toluene	108-88-3	0.0038	.00056	0.0033	0.0065	mg/kg	J	8260B	10/29/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.0004	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00051	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1,1-Trichloroethane	71-55-6	U	.00037	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1,2-Trichloroethane	79-00-5	U	.00037	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Trichloroethene	79-01-6	U	.00037	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Trichlorofluoromethane	75-69-4	U	.0005	0.0033	0.0065	mg/kg		8260B	10/29/14	1
1,2,3-Trichloropropane	96-18-4	U	.00097	0.0013	0.0033	mg/kg		8260B	10/29/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1

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REPORT OF ANALYSIS

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

November 18, 2014

ESC Sample # : L729026-03

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-NS02

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	0.00054	.00044	0.00065	0.0013	mg/kg	J	8260B	10/29/14	1
m&p-Xylene	1330-20-7	0.0013	.00094	0.0013	0.0026	mg/kg	J	8260B	10/29/14	1
Vinyl chloride	75-01-4	U	.00038	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00035	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	96.2				% Rec.		8260B	10/29/14	1
Dibromofluoromethane	1868-53-7	98.9				% Rec.		8260B	10/29/14	1
4-Bromofluorobenzene	460-00-4	96.8				% Rec.		8260B	10/29/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.1	2.6	5.2	mg/kg		8015	10/28/14	1
C28-C40 Oil Range		U	.35	2.6	5.2	mg/kg		8015	10/28/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	63.0				% Rec.		8015	10/28/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Acenaphthene	83-32-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Acenaphthylene	208-96-8	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(a)anthracene	56-55-3	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(a)pyrene	50-32-8	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(b)fluoranthene	205-99-2	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(k)fluoranthene	207-08-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Chrysene	218-01-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Fluoranthene	206-44-0	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Fluorene	86-73-7	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Naphthalene	91-20-3	0.0063	.00078	0.0078	0.026	mg/kg	J	8270C-SI	10/25/14	1
Phenanthrene	85-01-8	0.00099	.00078	0.0026	0.0078	mg/kg	J	8270C-SI	10/25/14	1
Pyrene	129-00-0	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
2-Methylnaphthalene	91-57-6	U	.00084	0.0078	0.026	mg/kg		8270C-SI	10/25/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	85.1				% Rec.		8270C-SI	10/25/14	1
Nitrobenzene-d5	4165-60-0	82.2				% Rec.		8270C-SI	10/25/14	1
2-Fluorobiphenyl	321-60-8	86.9				% Rec.		8270C-SI	10/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.01	0.22	0.44	mg/kg		8270C	10/27/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.012	0.22	0.44	mg/kg		8270C	10/27/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.0099	0.22	0.44	mg/kg		8270C	10/27/14	1
Benzyl Alcohol	100-51-6	U	.0098	0.22	0.44	mg/kg		8270C	10/27/14	1
Benzoic acid	65-85-0	U	.16	2.2	4.4	mg/kg		8270C	10/27/14	1
Carbazole	86-74-8	U	.0068	0.22	0.44	mg/kg		8270C	10/27/14	1

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L729026-03 (ICP METALS) - Dilution due to matrix
L729026-03 (PH) - 6.4@20.4c

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REPORT OF ANALYSIS

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

November 18, 2014

ESC Sample # : L729026-03

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-NS02

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0068	0.22	0.44	mg/kg		8270C	10/27/14	1
4-Bromophenyl-phenylether	101-55-3	U	.014	0.22	0.44	mg/kg		8270C	10/27/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0082	0.22	0.44	mg/kg		8270C	10/27/14	1
2-Chloronaphthalene	91-58-7	U	.0084	0.22	0.44	mg/kg		8270C	10/27/14	1
3,3-Dichlorobenzidine	91-94-1	U	.1	0.22	0.44	mg/kg		8270C	10/27/14	1
2,4-Dinitrotoluene	121-14-2	U	.008	0.22	0.44	mg/kg		8270C	10/27/14	1
2,6-Dinitrotoluene	606-20-2	U	.0096	0.22	0.44	mg/kg		8270C	10/27/14	1
Hexachlorobenzene	118-74-1	U	.011	0.22	0.44	mg/kg		8270C	10/27/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.013	0.22	0.44	mg/kg		8270C	10/27/14	1
Hexachloroethane	67-72-1	U	.017	0.22	0.44	mg/kg		8270C	10/27/14	1
Isophorone	78-59-1	U	.0068	0.22	0.44	mg/kg		8270C	10/27/14	1
Nitrobenzene	98-95-3	U	.0091	0.22	0.44	mg/kg		8270C	10/27/14	1
n-Nitrosodimethylamine	62-75-9	U	.085	0.22	0.44	mg/kg		8270C	10/27/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0077	0.22	0.44	mg/kg		8270C	10/27/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.012	0.22	0.44	mg/kg		8270C	10/27/14	1
Benzylbutyl phthalate	85-68-7	U	.013	0.22	0.44	mg/kg	J3	8270C	10/27/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.016	0.22	0.44	mg/kg		8270C	10/27/14	1
Di-n-butyl phthalate	84-74-2	U	.014	0.22	0.44	mg/kg		8270C	10/27/14	1
Diethyl phthalate	84-66-2	U	.009	0.22	0.44	mg/kg		8270C	10/27/14	1
Dimethyl phthalate	131-11-3	U	.007	0.22	0.44	mg/kg		8270C	10/27/14	1
Di-n-octyl phthalate	117-84-0	U	.012	0.22	0.44	mg/kg		8270C	10/27/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.012	0.22	0.44	mg/kg		8270C	10/27/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0063	0.22	0.44	mg/kg		8270C	10/27/14	1
2-Chlorophenol	95-57-8	U	.011	0.22	0.44	mg/kg		8270C	10/27/14	1
2,4-Dichlorophenol	120-83-2	U	.0098	0.22	0.44	mg/kg		8270C	10/27/14	1
2,4-Dimethylphenol	105-67-9	U	.061	0.22	0.44	mg/kg		8270C	10/27/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.16	0.22	0.44	mg/kg		8270C	10/27/14	1
2,4-Dinitrophenol	51-28-5	U	.13	0.22	0.44	mg/kg		8270C	10/27/14	1
2-Methylphenol	95-48-7	U	.013	0.22	0.44	mg/kg		8270C	10/27/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.01	0.22	0.44	mg/kg		8270C	10/27/14	1
2-Nitrophenol	88-75-5	U	.017	0.22	0.44	mg/kg		8270C	10/27/14	1
4-Nitrophenol	100-02-7	U	.068	0.22	0.44	mg/kg		8270C	10/27/14	1
4-Chloroaniline	106-47-8	U	.0046	0.22	0.44	mg/kg		8270C	10/27/14	1
2-Nitroaniline	88-74-4	U	.0099	0.22	0.44	mg/kg		8270C	10/27/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0018	0.22	0.44	mg/kg		8270C	10/27/14	1
3-Nitroaniline	99-09-2	U	.011	0.22	0.44	mg/kg		8270C	10/27/14	1
4-Nitroaniline	100-01-6	U	.0084	0.22	0.44	mg/kg		8270C	10/27/14	1
Pentachlorophenol	87-86-5	U	.063	0.22	0.44	mg/kg		8270C	10/27/14	1
Phenol	108-95-2	U	.0091	0.22	0.44	mg/kg		8270C	10/27/14	1
2,4,5-Trichlorophenol	95-95-4	U	.013	0.22	0.44	mg/kg		8270C	10/27/14	1
2,4,6-Trichlorophenol	88-06-2	U	.01	0.22	0.44	mg/kg		8270C	10/27/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	56.8				% Rec.		8270C	10/27/14	1
Phenol-d5	4165-62-2	55.2				% Rec.		8270C	10/27/14	1

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Sheri Fling
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8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729026-03

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB01-NS02

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 16:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	53.0				% Rec.		8270C	10/27/14	1
2-Fluorobiphenyl	321-60-8	59.4				% Rec.		8270C	10/27/14	1
2,4,6-Tribromophenol	118-79-6	63.7				% Rec.		8270C	10/27/14	1
p-Terphenyl-d14	1718-51-0	51.0				% Rec.		8270C	10/27/14	1

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-04

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-TRIPBLANK04-NT01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/21/14 14:00

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	10/24/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	94.7				% Rec.		8015D/G	10/24/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	10/28/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	10/28/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	10/28/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	10/28/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	10/28/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	10/28/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	10/28/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	10/28/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	10/28/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	10/28/14	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	10/28/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	10/28/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	10/28/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	10/28/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	10/28/14	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	10/28/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	10/28/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	10/28/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	10/28/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	10/28/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	10/28/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	10/28/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	10/28/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	10/28/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	10/28/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	10/28/14	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	10/28/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	10/28/14	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	10/28/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	10/28/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	10/28/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	10/28/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	10/28/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	10/28/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	10/28/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	10/28/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	10/28/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	10/28/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	10/28/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	10/28/14	1

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Note:
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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

November 18,2014

ESC Sample # : L729026-04

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-TRIPBLANK04-NT01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/21/14 14:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	10/28/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	10/28/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	10/28/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	10/28/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	10/28/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	10/28/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	10/28/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	10/28/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	10/28/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	10/28/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	10/28/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	10/28/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	10/28/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	10/28/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	10/28/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	10/28/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	10/28/14	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	10/28/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	10/28/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	10/28/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	10/28/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	10/28/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	10/28/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	10/28/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	10/28/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	101.				% Rec.		8260B	10/28/14	1
Dibromofluoromethane	1868-53-7	98.5				% Rec.		8260B	10/28/14	1
4-Bromofluorobenzene	460-00-4	95.7				% Rec.		8260B	10/28/14	1

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-05

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB05-NS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 12:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.5				su		9045D	10/24/14	1
Total Solids	TSOLIDS	76.8	.0333			%		2540 G-2	10/26/14	1
Mercury	7439-97-6	U	.0036	0.013	0.026	mg/kg		7471	10/23/14	1
Aluminum	7429-90-5	3200	23	33.	65.	mg/kg		6010B	10/30/14	5
Antimony	7440-36-0	U	4.9	6.5	13.	mg/kg		6010B	10/30/14	5
Arsenic	7440-38-2	U	4.2	6.5	13.	mg/kg		6010B	10/30/14	5
Barium	7440-39-3	30.	1.1	1.6	3.2	mg/kg		6010B	10/30/14	5
Beryllium	7440-41-7	U	.46	0.65	1.3	mg/kg		6010B	10/30/14	5
Cadmium	7440-43-9	U	.46	1.6	3.2	mg/kg		6010B	10/30/14	5
Chromium	7440-47-3	3.4	.91	3.3	6.5	mg/kg	J	6010B	10/30/14	5
Cobalt	7440-48-4	1.8	1.6	3.3	6.5	mg/kg	J	6010B	10/30/14	5
Copper	7440-50-8	U	3.4	6.5	13.	mg/kg		6010B	10/30/14	5
Lead	7439-92-1	1.6	1.2	1.6	3.2	mg/kg	J	6010B	10/30/14	5
Manganese	7439-96-5	39.	.78	3.3	6.5	mg/kg		6010B	10/30/14	5
Nickel	7440-02-0	4.3	3.1	6.5	13.	mg/kg	J	6010B	10/30/14	5
Selenium	7782-49-2	U	4.8	6.5	13.	mg/kg		6010B	10/30/14	5
Silver	7440-22-4	U	1.8	3.3	6.5	mg/kg		6010B	10/30/14	5
Thallium	7440-28-0	U	4.2	6.5	13.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	9.6	1.6	6.5	13.	mg/kg	J	6010B	10/30/14	5
Zinc	7440-66-6	13.	3.9	16.	32.	mg/kg	J	6010B	10/30/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.029	0.065	0.13	mg/kg		8015D/GR	10/29/14	1
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.1				% Rec.		8015D/GR	10/29/14	1
Volatile Organics										
Acetone	67-64-1	0.057	.013	0.033	0.065	mg/kg	J	8260B	10/29/14	1
Benzene	71-43-2	U	.00035	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromobenzene	108-86-1	U	.00036	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromochloromethane	74-97-5	U	.00051	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromodichloromethane	75-27-4	U	.00032	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromoform	75-25-2	U	.00055	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Bromomethane	74-83-9	U	.0017	0.0033	0.0065	mg/kg		8260B	10/29/14	1
n-Butylbenzene	104-51-8	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
sec-Butylbenzene	135-98-8	U	.00026	0.00065	0.0013	mg/kg		8260B	10/29/14	1
tert-Butylbenzene	98-06-6	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Carbon Disulfide	75-15-0	U	.00036	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Carbon tetrachloride	56-23-5	U	.00043	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Chlorobenzene	108-90-7	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Chlorodibromomethane	124-48-1	U	.00048	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Chloroethane	75-00-3	U	.0012	0.0033	0.0065	mg/kg		8260B	10/29/14	1
Chloroform	67-66-3	U	.0003	0.0033	0.0065	mg/kg		8260B	10/29/14	1

Results listed are dry weight basis.
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Reported: 11/14/14 18:35 Revised: 11/18/14 11:02
L729026-05 (ICP METALS) - Dilution due to matrix
L729026-05 (PH) - 6.5@20.4c

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Mt. Juliet, TN 37122
(615) 758-5858
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Est. 1970

REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-05

Site ID :

Project # : 23446543.0055AA

Date Received : October 22, 2014
Description : Holloman AFB

Sample ID : TU503-SB05-NS01

Collected By :
Collection Date : 10/20/14 12:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00049	0.00065	0.0032	mg/kg		8260B	10/29/14	1
2-Chlorotoluene	95-49-8	U	.00039	0.00065	0.0013	mg/kg		8260B	10/29/14	1
4-Chlorotoluene	106-43-4	U	.00031	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0013	0.0033	0.0065	mg/kg		8260B	10/29/14	1
1,2-Dibromoethane	106-93-4	U	.00044	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Dibromomethane	74-95-3	U	.00049	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichlorobenzene	95-50-1	U	.00039	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,3-Dichlorobenzene	541-73-1	U	.00031	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,4-Dichlorobenzene	106-46-7	U	.0003	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Dichlorodifluoromethane	75-71-8	U	.00092	0.0033	0.0065	mg/kg		8260B	10/29/14	1
1,1-Dichloroethane	75-34-3	U	.00026	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichloroethane	107-06-2	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1-Dichloroethene	75-35-4	U	.00039	0.00065	0.0013	mg/kg		8260B	10/29/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00031	0.00065	0.0013	mg/kg		8260B	10/29/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichloropropane	78-87-5	U	.00047	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1-Dichloropropene	563-58-6	U	.00042	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,3-Dichloropropane	142-28-9	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00035	0.00065	0.0013	mg/kg		8260B	10/29/14	1
2,2-Dichloropropane	594-20-7	U	.00036	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Ethylbenzene	100-41-4	U	.00039	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00044	0.00065	0.0013	mg/kg		8260B	10/29/14	1
2-Hexanone	591-78-6	U	.0049	0.0065	0.013	mg/kg		8260B	10/29/14	1
Isopropylbenzene	98-82-8	U	.00031	0.00065	0.0013	mg/kg		8260B	10/29/14	1
p-Isopropyltoluene	99-87-6	U	.00026	0.00065	0.0013	mg/kg		8260B	10/29/14	1
2-Butanone (MEK)	78-93-3	0.0092	.0061	0.0065	0.013	mg/kg	J	8260B	10/29/14	1
Methylene Chloride	75-09-2	U	.0013	0.0033	0.0065	mg/kg		8260B	10/29/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0025	0.0065	0.013	mg/kg		8260B	10/29/14	1
Methyl tert-butyl ether	1634-04-4	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Naphthalene	91-20-3	U	.0013	0.0033	0.0065	mg/kg		8260B	10/29/14	1
n-Propylbenzene	103-65-1	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Styrene	100-42-5	U	.0003	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00034	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00047	0.00098	0.0013	mg/kg		8260B	10/29/14	1
Tetrachloroethene	127-18-4	U	.00036	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Toluene	108-88-3	U	.00056	0.0033	0.0065	mg/kg		8260B	10/29/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.0004	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00051	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1,1-Trichloroethane	71-55-6	U	.00037	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,1,2-Trichloroethane	79-00-5	U	.00036	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Trichloroethene	79-01-6	U	.00036	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Trichlorofluoromethane	75-69-4	U	.00049	0.0033	0.0065	mg/kg		8260B	10/29/14	1
1,2,3-Trichloropropane	96-18-4	U	.00096	0.0013	0.0032	mg/kg		8260B	10/29/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.00027	0.00065	0.0013	mg/kg		8260B	10/29/14	1

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-05

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB05-NS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 12:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.00044	0.00065	0.0013	mg/kg		8260B	10/29/14	1
m&p-Xylene	1330-20-7	U	.00094	0.0013	0.0026	mg/kg		8260B	10/29/14	1
Vinyl chloride	75-01-4	U	.00038	0.00065	0.0013	mg/kg		8260B	10/29/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00035	0.00065	0.0013	mg/kg		8260B	10/29/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	94.5				% Rec.		8260B	10/29/14	1
Dibromofluoromethane	1868-53-7	100.				% Rec.		8260B	10/29/14	1
4-Bromofluorobenzene	460-00-4	93.9				% Rec.		8260B	10/29/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.1	2.6	5.2	mg/kg		8015	10/28/14	1
C28-C40 Oil Range		U	.35	2.6	5.2	mg/kg		8015	10/28/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	64.9				% Rec.		8015	10/28/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Acenaphthene	83-32-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Acenaphthylene	208-96-8	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(a)anthracene	56-55-3	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(a)pyrene	50-32-8	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(b)fluoranthene	205-99-2	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Benzo(k)fluoranthene	207-08-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Chrysene	218-01-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Fluoranthene	206-44-0	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Fluorene	86-73-7	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Naphthalene	91-20-3	0.0012	.00078	0.0078	0.026	mg/kg	J	8270C-SI	10/25/14	1
Phenanthrene	85-01-8	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
Pyrene	129-00-0	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/25/14	1
2-Methylnaphthalene	91-57-6	U	.00083	0.0078	0.026	mg/kg		8270C-SI	10/25/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	83.8				% Rec.		8270C-SI	10/25/14	1
Nitrobenzene-d5	4165-60-0	79.6				% Rec.		8270C-SI	10/25/14	1
2-Fluorobiphenyl	321-60-8	86.1				% Rec.		8270C-SI	10/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.01	0.22	0.43	mg/kg		8270C	10/27/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.0099	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzyl Alcohol	100-51-6	U	.0098	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzoic acid	65-85-0	U	.16	2.2	4.3	mg/kg		8270C	10/27/14	1
Carbazole	86-74-8	U	.0068	0.22	0.43	mg/kg		8270C	10/27/14	1

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U = Not Detected at the LOD
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Reported: 11/14/14 18:35 Revised: 11/18/14 11:02
L729026-05 (ICP METALS) - Dilution due to matrix
L729026-05 (PH) - 6.5@20.4c

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

November 18,2014

ESC Sample # : L729026-05

Site ID :

Project # : 23446543.0055AA

Date Received : October 22, 2014
Description : Holloman AFB

Sample ID : TU503-SB05-NS01

Collected By :
Collection Date : 10/20/14 12:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0068	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Bromophenyl-phenylether	101-55-3	U	.014	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0082	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Chloronaphthalene	91-58-7	U	.0083	0.22	0.43	mg/kg		8270C	10/27/14	1
3,3-Dichlorobenzidine	91-94-1	U	.1	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dinitrotoluene	121-14-2	U	.0079	0.22	0.43	mg/kg		8270C	10/27/14	1
2,6-Dinitrotoluene	606-20-2	U	.0096	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachlorobenzene	118-74-1	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
Hexachloroethane	67-72-1	U	.017	0.22	0.43	mg/kg		8270C	10/27/14	1
Isophorone	78-59-1	U	.0068	0.22	0.43	mg/kg		8270C	10/27/14	1
Nitrobenzene	98-95-3	U	.009	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodimethylamine	62-75-9	U	.085	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0077	0.22	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
Benzylbutyl phthalate	85-68-7	U	.013	0.22	0.43	mg/kg	J3	8270C	10/27/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.016	0.22	0.43	mg/kg		8270C	10/27/14	1
Di-n-butyl phthalate	84-74-2	U	.014	0.22	0.43	mg/kg		8270C	10/27/14	1
Diethyl phthalate	84-66-2	U	.009	0.22	0.43	mg/kg		8270C	10/27/14	1
Dimethyl phthalate	131-11-3	U	.007	0.22	0.43	mg/kg		8270C	10/27/14	1
Di-n-octyl phthalate	117-84-0	U	.012	0.22	0.43	mg/kg		8270C	10/27/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0062	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Chlorophenol	95-57-8	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dichlorophenol	120-83-2	U	.0097	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dimethylphenol	105-67-9	U	.061	0.22	0.43	mg/kg		8270C	10/27/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.16	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4-Dinitrophenol	51-28-5	U	.13	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Methylphenol	95-48-7	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.01	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Nitrophenol	88-75-5	U	.017	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Nitrophenol	100-02-7	U	.068	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Chloroaniline	106-47-8	U	.0046	0.22	0.43	mg/kg		8270C	10/27/14	1
2-Nitroaniline	88-74-4	U	.0097	0.22	0.43	mg/kg		8270C	10/27/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0018	0.22	0.43	mg/kg		8270C	10/27/14	1
3-Nitroaniline	99-09-2	U	.011	0.22	0.43	mg/kg		8270C	10/27/14	1
4-Nitroaniline	100-01-6	U	.0083	0.22	0.43	mg/kg		8270C	10/27/14	1
Pentachlorophenol	87-86-5	U	.062	0.22	0.43	mg/kg		8270C	10/27/14	1
Phenol	108-95-2	U	.009	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4,5-Trichlorophenol	95-95-4	U	.013	0.22	0.43	mg/kg		8270C	10/27/14	1
2,4,6-Trichlorophenol	88-06-2	U	.01	0.22	0.43	mg/kg		8270C	10/27/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	59.8				% Rec.		8270C	10/27/14	1
Phenol-d5	4165-62-2	58.0				% Rec.		8270C	10/27/14	1

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L729026-05 (ICP METALS) - Dilution due to matrix
L729026-05 (PH) - 6.5@20.4c

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Est. 1970

REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-05

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB05-NS01

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 12:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	56.8				% Rec.		8270C	10/27/14	1
2-Fluorobiphenyl	321-60-8	65.5				% Rec.		8270C	10/27/14	1
2,4,6-Tribromophenol	118-79-6	68.5				% Rec.		8270C	10/27/14	1
p-Terphenyl-d14	1718-51-0	57.0				% Rec.		8270C	10/27/14	1

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-06

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB05-NS02

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 12:55

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.5				su		9045D	10/24/14	1
Total Solids	TSOLIDS	78.0	.0333			%		2540 G-2	10/26/14	1
Mercury	7439-97-6	U	.0036	0.013	0.026	mg/kg		7471	10/23/14	1
Aluminum	7429-90-5	4600	22	32.	64.	mg/kg		6010B	10/30/14	5
Antimony	7440-36-0	U	4.8	6.4	13.	mg/kg		6010B	10/30/14	5
Arsenic	7440-38-2	U	4.1	6.4	13.	mg/kg		6010B	10/30/14	5
Barium	7440-39-3	40.	1.1	1.6	3.2	mg/kg		6010B	10/30/14	5
Beryllium	7440-41-7	U	.45	0.64	1.3	mg/kg		6010B	10/30/14	5
Cadmium	7440-43-9	U	.45	1.6	3.2	mg/kg		6010B	10/30/14	5
Chromium	7440-47-3	4.9	.9	3.2	6.4	mg/kg	J	6010B	10/30/14	5
Cobalt	7440-48-4	1.8	1.5	3.2	6.4	mg/kg	J	6010B	10/30/14	5
Copper	7440-50-8	U	3.3	6.4	13.	mg/kg		6010B	10/30/14	5
Lead	7439-92-1	2.2	1.2	1.6	3.2	mg/kg	J	6010B	10/30/14	5
Manganese	7439-96-5	62.	.77	3.2	6.4	mg/kg		6010B	10/30/14	5
Nickel	7440-02-0	3.6	3.1	6.4	13.	mg/kg	J	6010B	10/30/14	5
Selenium	7782-49-2	U	4.7	6.4	13.	mg/kg		6010B	10/30/14	5
Silver	7440-22-4	U	1.8	3.2	6.4	mg/kg		6010B	10/30/14	5
Thallium	7440-28-0	U	4.1	6.4	13.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	9.6	1.5	6.4	13.	mg/kg	J	6010B	10/30/14	5
Zinc	7440-66-6	14.	3.8	16.	32.	mg/kg	J	6010B	10/30/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.028	0.064	0.13	mg/kg		8015D/GR	10/28/14	1
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	100.				% Rec.		8015D/GR	10/28/14	1
Volatile Organics										
Acetone	67-64-1	0.023	.013	0.032	0.064	mg/kg	J	8260B	10/29/14	1
Benzene	71-43-2	0.0027	.00035	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromobenzene	108-86-1	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromochloromethane	74-97-5	U	.0005	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromodichloromethane	75-27-4	U	.00032	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromoform	75-25-2	U	.00054	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Bromomethane	74-83-9	U	.0017	0.0032	0.0064	mg/kg		8260B	10/29/14	1
n-Butylbenzene	104-51-8	U	.00033	0.00064	0.0013	mg/kg		8260B	10/29/14	1
sec-Butylbenzene	135-98-8	U	.00026	0.00064	0.0013	mg/kg		8260B	10/29/14	1
tert-Butylbenzene	98-06-6	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Carbon Disulfide	75-15-0	0.00041	.00036	0.00064	0.0013	mg/kg	J	8260B	10/29/14	1
Carbon tetrachloride	56-23-5	U	.00042	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Chlorobenzene	108-90-7	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Chlorodibromomethane	124-48-1	U	.00047	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Chloroethane	75-00-3	U	.0012	0.0032	0.0064	mg/kg		8260B	10/29/14	1
Chloroform	67-66-3	U	.00029	0.0032	0.0064	mg/kg		8260B	10/29/14	1

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L729026-06 (PH) - 6.5@20.1c
L729026-06 (ICP METALS) - Dilution due to matrix

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

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-06

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB05-NS02

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 12:55

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00049	0.00064	0.0032	mg/kg		8260B	10/29/14	1
2-Chlorotoluene	95-49-8	U	.00038	0.00064	0.0013	mg/kg		8260B	10/29/14	1
4-Chlorotoluene	106-43-4	U	.00031	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0013	0.0032	0.0064	mg/kg		8260B	10/29/14	1
1,2-Dibromoethane	106-93-4	U	.00044	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Dibromomethane	74-95-3	U	.00049	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichlorobenzene	95-50-1	U	.00038	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,3-Dichlorobenzene	541-73-1	U	.00031	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,4-Dichlorobenzene	106-46-7	U	.00029	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Dichlorodifluoromethane	75-71-8	U	.00091	0.0032	0.0064	mg/kg		8260B	10/29/14	1
1,1-Dichloroethane	75-34-3	U	.00026	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichloroethane	107-06-2	U	.00033	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1-Dichloroethene	75-35-4	U	.00038	0.00064	0.0013	mg/kg		8260B	10/29/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00031	0.00064	0.0013	mg/kg		8260B	10/29/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00033	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2-Dichloropropane	78-87-5	U	.00046	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1-Dichloropropene	563-58-6	U	.00041	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,3-Dichloropropane	142-28-9	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00033	0.00064	0.0013	mg/kg		8260B	10/29/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00035	0.00064	0.0013	mg/kg		8260B	10/29/14	1
2,2-Dichloropropane	594-20-7	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Ethylbenzene	100-41-4	0.00050	.00038	0.00064	0.0013	mg/kg	J	8260B	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00044	0.00064	0.0013	mg/kg		8260B	10/29/14	1
2-Hexanone	591-78-6	U	.0049	0.0064	0.013	mg/kg		8260B	10/29/14	1
Isopropylbenzene	98-82-8	U	.00031	0.00064	0.0013	mg/kg		8260B	10/29/14	1
p-Isopropyltoluene	99-87-6	U	.00026	0.00064	0.0013	mg/kg		8260B	10/29/14	1
2-Butanone (MEK)	78-93-3	U	.006	0.0064	0.013	mg/kg		8260B	10/29/14	1
Methylene Chloride	75-09-2	U	.0013	0.0032	0.0064	mg/kg		8260B	10/29/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0024	0.0064	0.013	mg/kg		8260B	10/29/14	1
Methyl tert-butyl ether	1634-04-4	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Naphthalene	91-20-3	U	.0013	0.0032	0.0064	mg/kg		8260B	10/29/14	1
n-Propylbenzene	103-65-1	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Styrene	100-42-5	U	.00029	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00033	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00046	0.00096	0.0013	mg/kg		8260B	10/29/14	1
Tetrachloroethene	127-18-4	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Toluene	108-88-3	0.0027	.00055	0.0032	0.0064	mg/kg	J	8260B	10/29/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.0004	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.0005	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1,1-Trichloroethane	71-55-6	U	.00037	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,1,2-Trichloroethane	79-00-5	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Trichloroethene	79-01-6	U	.00036	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Trichlorofluoromethane	75-69-4	U	.00049	0.0032	0.0064	mg/kg		8260B	10/29/14	1
1,2,3-Trichloropropane	96-18-4	U	.00095	0.0013	0.0032	mg/kg		8260B	10/29/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.00027	0.00064	0.0013	mg/kg		8260B	10/29/14	1

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Reported: 11/14/14 18:35 Revised: 11/18/14 11:02
L729026-06 (PH) - 6.5@20.1c
L729026-06 (ICP METALS) - Dilution due to matrix

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

November 18,2014

ESC Sample # : L729026-06

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB05-NS02

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 12:55

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.00044	0.00064	0.0013	mg/kg		8260B	10/29/14	1
m&p-Xylene	1330-20-7	U	.00092	0.0013	0.0026	mg/kg		8260B	10/29/14	1
Vinyl chloride	75-01-4	U	.00037	0.00064	0.0013	mg/kg		8260B	10/29/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00035	0.00064	0.0013	mg/kg		8260B	10/29/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	97.2				% Rec.		8260B	10/29/14	1
Dibromofluoromethane	1868-53-7	99.8				% Rec.		8260B	10/29/14	1
4-Bromofluorobenzene	460-00-4	94.1				% Rec.		8260B	10/29/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2	2.6	5.1	mg/kg		8015	10/28/14	1
C28-C40 Oil Range		U	.35	2.6	5.1	mg/kg		8015	10/28/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	60.2				% Rec.		8015	10/28/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Acenaphthene	83-32-9	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Acenaphthylene	208-96-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(a)anthracene	56-55-3	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(a)pyrene	50-32-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(b)fluoranthene	205-99-2	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Benzo(k)fluoranthene	207-08-9	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Chrysene	218-01-9	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Fluoranthene	206-44-0	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Fluorene	86-73-7	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Naphthalene	91-20-3	0.0086	.00077	0.0077	0.026	mg/kg	J	8270C-SI	10/25/14	1
Phenanthrene	85-01-8	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
Pyrene	129-00-0	U	.00077	0.0026	0.0077	mg/kg		8270C-SI	10/25/14	1
2-Methylnaphthalene	91-57-6	U	.00082	0.0077	0.026	mg/kg		8270C-SI	10/25/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	77.6				% Rec.		8270C-SI	10/25/14	1
Nitrobenzene-d5	4165-60-0	79.4				% Rec.		8270C-SI	10/25/14	1
2-Fluorobiphenyl	321-60-8	83.8				% Rec.		8270C-SI	10/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.0099	0.21	0.43	mg/kg		8270C	10/27/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.011	0.21	0.43	mg/kg		8270C	10/27/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.0097	0.21	0.43	mg/kg		8270C	10/27/14	1
Benzyl Alcohol	100-51-6	U	.0096	0.21	0.43	mg/kg		8270C	10/27/14	1
Benzoic acid	65-85-0	U	.15	2.1	4.3	mg/kg		8270C	10/27/14	1
Carbazole	86-74-8	U	.0067	0.21	0.43	mg/kg		8270C	10/27/14	1

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Reported: 11/14/14 18:35 Revised: 11/18/14 11:02
L729026-06 (PH) - 6.5@20.1c
L729026-06 (ICP METALS) - Dilution due to matrix

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Mt. Juliet, TN 37122
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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-06

Site ID :

Project # : 23446543.0055AA

Date Received : October 22, 2014
Description : Holloman AFB

Sample ID : TU503-SB05-NS02

Collected By :
Collection Date : 10/20/14 12:55

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0067	0.21	0.43	mg/kg		8270C	10/27/14	1
4-Bromophenyl-phenylether	101-55-3	U	.014	0.21	0.43	mg/kg		8270C	10/27/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0081	0.21	0.43	mg/kg		8270C	10/27/14	1
2-Chloronaphthalene	91-58-7	U	.0082	0.21	0.43	mg/kg		8270C	10/27/14	1
3,3-Dichlorobenzidine	91-94-1	U	.1	0.21	0.43	mg/kg		8270C	10/27/14	1
2,4-Dinitrotoluene	121-14-2	U	.0078	0.21	0.43	mg/kg		8270C	10/27/14	1
2,6-Dinitrotoluene	606-20-2	U	.0094	0.21	0.43	mg/kg		8270C	10/27/14	1
Hexachlorobenzene	118-74-1	U	.011	0.21	0.43	mg/kg		8270C	10/27/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.013	0.21	0.43	mg/kg		8270C	10/27/14	1
Hexachloroethane	67-72-1	U	.017	0.21	0.43	mg/kg		8270C	10/27/14	1
Isophorone	78-59-1	U	.0067	0.21	0.43	mg/kg		8270C	10/27/14	1
Nitrobenzene	98-95-3	U	.0089	0.21	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodimethylamine	62-75-9	U	.083	0.21	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0076	0.21	0.43	mg/kg		8270C	10/27/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.012	0.21	0.43	mg/kg		8270C	10/27/14	1
Benzylbutyl phthalate	85-68-7	U	.013	0.21	0.43	mg/kg	J3	8270C	10/27/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.015	0.21	0.43	mg/kg		8270C	10/27/14	1
Di-n-butyl phthalate	84-74-2	U	.014	0.21	0.43	mg/kg		8270C	10/27/14	1
Diethyl phthalate	84-66-2	U	.0088	0.21	0.43	mg/kg		8270C	10/27/14	1
Dimethyl phthalate	131-11-3	U	.0069	0.21	0.43	mg/kg		8270C	10/27/14	1
Di-n-octyl phthalate	117-84-0	U	.012	0.21	0.43	mg/kg		8270C	10/27/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.011	0.21	0.43	mg/kg		8270C	10/27/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0062	0.21	0.43	mg/kg		8270C	10/27/14	1
2-Chlorophenol	95-57-8	U	.011	0.21	0.43	mg/kg		8270C	10/27/14	1
2,4-Dichlorophenol	120-83-2	U	.0096	0.21	0.43	mg/kg		8270C	10/27/14	1
2,4-Dimethylphenol	105-67-9	U	.06	0.21	0.43	mg/kg		8270C	10/27/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.15	0.21	0.43	mg/kg		8270C	10/27/14	1
2,4-Dinitrophenol	51-28-5	U	.12	0.21	0.43	mg/kg		8270C	10/27/14	1
2-Methylphenol	95-48-7	U	.013	0.21	0.43	mg/kg		8270C	10/27/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.01	0.21	0.43	mg/kg		8270C	10/27/14	1
2-Nitrophenol	88-75-5	U	.017	0.21	0.43	mg/kg		8270C	10/27/14	1
4-Nitrophenol	100-02-7	U	.067	0.21	0.43	mg/kg		8270C	10/27/14	1
4-Chloroaniline	106-47-8	U	.0045	0.21	0.43	mg/kg		8270C	10/27/14	1
2-Nitroaniline	88-74-4	U	.0097	0.21	0.43	mg/kg		8270C	10/27/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0018	0.21	0.43	mg/kg		8270C	10/27/14	1
3-Nitroaniline	99-09-2	U	.011	0.21	0.43	mg/kg		8270C	10/27/14	1
4-Nitroaniline	100-01-6	U	.0082	0.21	0.43	mg/kg		8270C	10/27/14	1
Pentachlorophenol	87-86-5	U	.061	0.21	0.43	mg/kg		8270C	10/27/14	1
Phenol	108-95-2	U	.0089	0.21	0.43	mg/kg		8270C	10/27/14	1
2,4,5-Trichlorophenol	95-95-4	U	.013	0.21	0.43	mg/kg		8270C	10/27/14	1
2,4,6-Trichlorophenol	88-06-2	U	.01	0.21	0.43	mg/kg		8270C	10/27/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	58.3				% Rec.		8270C	10/27/14	1
Phenol-d5	4165-62-2	57.1				% Rec.		8270C	10/27/14	1

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L729026-06 (PH) - 6.5@20.1c
L729026-06 (ICP METALS) - Dilution due to matrix

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729026-06

Date Received : October 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU503-SB05-NS02

Project # : 23446543.0055AA

Collected By :
Collection Date : 10/20/14 12:55

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	56.8				% Rec.		8270C	10/27/14	1
2-Fluorobiphenyl	321-60-8	65.6				% Rec.		8270C	10/27/14	1
2,4,6-Tribromophenol	118-79-6	67.7				% Rec.		8270C	10/27/14	1
p-Terphenyl-d14	1718-51-0	57.7				% Rec.		8270C	10/27/14	1

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L729026-06 (PH) - 6.5@20.1c
L729026-06 (ICP METALS) - Dilution due to matrix

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L729026-01	WG750213	SAMP	Benzo(a)anthracene	R3000375	J
	WG750213	SAMP	Benzo(b)fluoranthene	R3000375	J
	WG750213	SAMP	Chrysene	R3000375	J
	WG750213	SAMP	Fluoranthene	R3000375	J
	WG750213	SAMP	Naphthalene	R3000375	J
	WG750213	SAMP	Pyrene	R3000375	J
	WG750239	SAMP	Acetone	R3000958	J
	WG750239	SAMP	Toluene	R3000958	J
	WG750261	SAMP	Chromium	R3001355	J
	WG750261	SAMP	Cobalt	R3001355	J
	WG750261	SAMP	Lead	R3001355	J
	WG750261	SAMP	Nickel	R3001355	J
	WG750261	SAMP	Zinc	R3001355	J
	WG750215	SAMP	Benzylbutyl phthalate	R3000665	J3
L729026-02	WG750213	SAMP	Naphthalene	R3000375	J
	WG750239	SAMP	Acetone	R3000958	J
	WG750239	SAMP	Toluene	R3000958	J
	WG750261	SAMP	Chromium	R3001355	J
	WG750261	SAMP	Lead	R3001355	J
	WG750261	SAMP	Vanadium	R3001355	J
	WG750261	SAMP	Zinc	R3001355	J
	WG750215	SAMP	Benzylbutyl phthalate	R3000665	J3
L729026-03	WG750213	SAMP	Naphthalene	R3000375	J
	WG750213	SAMP	Phenanthrene	R3000375	J
	WG750239	SAMP	Acetone	R3000958	J
	WG750239	SAMP	Ethylbenzene	R3000958	J
	WG750239	SAMP	Toluene	R3000958	J
	WG750239	SAMP	o-Xylene	R3000958	J
	WG750239	SAMP	m&p-Xylene	R3000958	J
	WG750261	SAMP	Chromium	R3001355	J
	WG750261	SAMP	Lead	R3001355	J
	WG750261	SAMP	Vanadium	R3001355	J
	WG750261	SAMP	Zinc	R3001355	J
	WG750215	SAMP	Benzylbutyl phthalate	R3000665	J3
L729026-05	WG750213	SAMP	Naphthalene	R3000375	J
	WG750239	SAMP	Acetone	R3000958	J
	WG750239	SAMP	2-Butanone (MEK)	R3000958	J
	WG750261	SAMP	Chromium	R3001355	J
	WG750261	SAMP	Cobalt	R3001355	J
	WG750261	SAMP	Lead	R3001355	J
	WG750261	SAMP	Nickel	R3001355	J
	WG750261	SAMP	Vanadium	R3001355	J
	WG750261	SAMP	Zinc	R3001355	J
	WG750215	SAMP	Benzylbutyl phthalate	R3000665	J3
L729026-06	WG750213	SAMP	Naphthalene	R3000375	J
	WG750239	SAMP	Acetone	R3000958	J
	WG750239	SAMP	Carbon Disulfide	R3000958	J
	WG750239	SAMP	Ethylbenzene	R3000958	J
	WG750239	SAMP	Toluene	R3000958	J
	WG750261	SAMP	Chromium	R3001355	J
	WG750261	SAMP	Cobalt	R3001355	J
	WG750261	SAMP	Lead	R3001355	J
	WG750261	SAMP	Nickel	R3001355	J
	WG750261	SAMP	Vanadium	R3001355	J
	WG750261	SAMP	Zinc	R3001355	J
	WG750215	SAMP	Benzylbutyl phthalate	R3000665	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.

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.

Total Solids by Method 2540 G-2011

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: L729026

Total Solids by Method 2540 G-2011
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750435**
Analysis Date:	10/26/2014 8:07:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG750435**
Description: **Total Solids by Method 2540 G-2011 (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729026-01 1x	10/20/2014	10/24/2014	10/26/2014
L729026-02 1x	10/20/2014	10/24/2014	10/26/2014
L729026-03 1x	10/20/2014	10/24/2014	10/26/2014
L729026-05 1x	10/20/2014	10/24/2014	10/26/2014
L729026-06 1x	10/20/2014	10/24/2014	10/26/2014

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750435**
Analysis Date:	10/26/2014 8:07:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
LOGBAL3	LCS WG750435	LCS WG750435		10/26/2014	8:06 AM
LOGBAL3	DUP WG750435	DUP WG750435		10/26/2014	8:06 AM
LOGBAL3	Blank WG750435	Blank WG750435		10/26/2014	8:06 AM
LOGBAL3	TU503-SB01-DS01	L729026-01		10/26/2014	8:07 AM
LOGBAL3	TU503-SB01-NS01	L729026-02		10/26/2014	8:07 AM
LOGBAL3	TU503-SB01-NS02	L729026-03		10/26/2014	8:07 AM
LOGBAL3	TU503-SB05-NS01	L729026-05		10/26/2014	8:08 AM
LOGBAL3	TU503-SB05-NS02	L729026-06		10/26/2014	8:08 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750435**
Analysis Date:	10/26/2014 8:07:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Total Solids	TSOLIDS	< 0.100	< 0.0333	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Total Solids	1	50	50.014	100	85 - 115	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750435**
Analysis Date:	10/26/2014 8:07:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Sample Duplicate

L729024-01

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
Total Solids	1	70.569	70.775	0.29	5	

Parameters in bold text are reported in this SDG

Raw Data

Laboratory Bench Sheet

Total Solids / Moisture (Soils)

10/26/2014 8:08 AM

Workgroup:

WG750435

	Std. ID	Exp.Date	True Value
LCS	14G30014	01/30/15	50

Method: SM-2540 G-2011

Prep Analyst: 607

Prep Date/Time: 10/24/14 0945

Instrument: LOGBAL3

Capture Analyst: 475

Analysis Date: 10/26/14 0805

State	Sample ID	Mtx	Collect Date	Vessel ID	A Vessel Wt (g)	B Sample + Vessel Wt (g)	C Oven Wt 1 (g)	D Oven Wt 2 (g)	E Oven Wt Diff. (g)	F TS Result (%)	TS Quals	G % Moisture (%)	% Moisture Quals	H TS % Rec (%)	I TS RPD	J % Moisture % Rec (%)	K % Moisture RPD (%)
	BLANK	QC	10/24/2014	B1	1.0307	1.0307	1.0300	1.0300	0.0000	0.0007		99.9993					
	LCS	QC	10/24/2014	B2	1.0303	11.0301	6.0316	6.0316	0.0000	50.0140		49.9860		100.03		99.97	
NM	L729024-01	SS	10/20/2014	B3	1.0331	12.0536	8.8102	8.8102	0.0000	70.5694		29.4306					
NM	L729024-01DUP	SS	10/20/2014	B4	1.0342	11.6868	8.5736	8.5736	0.0000	70.7752		29.2248			0.29		0.70
NM	L729024-02	SS	10/20/2014	B5	1.0354	13.0871	10.2085	10.2085	0.0000	76.1146		23.8854					
NM	L729024-04	SS	10/20/2014	B6	1.0429	13.4662	10.0213	10.0213	0.0000	72.2707		27.7293					
NM	L729024-05	SS	10/20/2014	B7	1.0444	13.4807	10.3433	10.3433	0.0000	74.7722		25.2278					
NM	L729026-01	SS	10/20/2014	B8	1.0391	11.6535	9.2733	9.2733	0.0000	77.5757		22.4243					
NM	L729026-02	SS	10/20/2014	B9	1.0409	12.0624	9.5895	9.5895	0.0000	77.5629		22.4371					
NM	L729026-03	SS	10/20/2014	B10	1.0316	13.7501	10.7572	10.7572	0.0000	76.4681		23.5319					
NM	L729026-05	SS	10/20/2014	B11	1.0327	13.0650	10.2759	10.2759	0.0000	76.8199		23.1801					
NM	L729026-06	SS	10/20/2014	B12	1.0322	10.2462	8.2238	8.2238	0.0000	78.0508		21.9492					
NM	L729030-01	SS	10/21/2014	B13	1.0262	12.4422	9.8430	9.8430	0.0000	77.2320		22.7680					

** Samples highlighted in gray with italic text will not be captured **

Laboratory Bench Sheet

Total Solids / Moisture (Soils)

10/26/2014 8:08 AM

Workgroup:

WG750435

Seq.	Oven Type	Date/Time In	Temp In	Date/Time Out	Temp Out	Samples
1	Oven-12hr	10/24/2014 10:08 AM	104	10/26/2014 8:05 AM	104	BLANK, LCS, L729024-01, L729024-01DUP, L729024-02, L729024-04, L729024-05, L729026-01, L729026-02, L729026-03, L729026-05, L729026-06, L729030-01

Calculations

[E] Oven Wt Diff. = ABS (D - C)

[F] TS Result = ((D - A) * 100) / (B - A)

[F] TS Result (Blank Samples) = ABS(D - B)

[G] % Moisture Result = 100 - F

[H] & [J] Percent Recovery = (Observed Result / True Value) * 100

[I] & [K] RPD = (ABS(Parent Result - Duplicate Result) / ((Parent Result + Duplicate Result) / 2)) * 100

pH by Method 9045D

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Quality Control Summary
SDG: L729026

pH by Method 9045D
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750477**
Analysis Date:	10/24/2014 10:12:00 AM	Analyst:	661
Instrument ID:	ORION VS-1	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG750477**

Sample Name	Collect Date	Prep Date	Analysis Date
L729026-01 1x	10/20/2014	10/24/2014	10/24/2014
L729026-02 1x	10/20/2014	10/24/2014	10/24/2014
L729026-03 1x	10/20/2014	10/24/2014	10/24/2014
L729026-05 1x	10/20/2014	10/24/2014	10/24/2014
L729026-06 1x	10/20/2014	10/24/2014	10/24/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750477**
Analysis Date:	10/24/2014 10:12:00 AM	Analyst:	661
Instrument ID:	ORION VS-1	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ORION VS-1	LCS WG750477	LCS WG750477		10/24/2014	10:12 AM
ORION VS-1	LCSD WG750477	LCSD WG750477		10/24/2014	10:12 AM
ORION VS-1	DUP WG750477	DUP WG750477		10/24/2014	10:12 AM
ORION VS-1	DUP WG750477	DUP WG750477		10/24/2014	10:12 AM
ORION VS-1	TU503-SB01-DS01	L729026-01		10/24/2014	10:12 AM
ORION VS-1	TU503-SB01-NS01	L729026-02		10/24/2014	10:12 AM
ORION VS-1	TU503-SB01-NS02	L729026-03		10/24/2014	10:12 AM
ORION VS-1	TU503-SB05-NS01	L729026-05		10/24/2014	10:12 AM
ORION VS-1	TU503-SB05-NS02	L729026-06		10/24/2014	10:12 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750477**
Analysis Date:	10/24/2014 10:12:00 AM	Analyst:	661
Instrument ID:	ORION VS-1	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
pH	1	6.33	6.3	99.5	98.3 - 101.7	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
pH	1	6.33	6.3	99.5	98.3 - 101.7	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
pH	1	6.33	6.3	99.5	6.3	99.5	98.3 - 101.7		0	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750477**
Analysis Date:	10/24/2014 10:12:00 AM	Analyst:	661
Instrument ID:	ORION VS-1	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Sample Duplicate

L729012-04

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
pH	1	5.1	5.07	0.59	1	

Sample Duplicate

L729030-05

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
pH	1	6.6	6.61	0.15	1	

Parameters in bold text are reported in this SDG

Raw Data

Date :10/24/2

Time :10:08:25AM

Environmental Science Corporation

LABORATORY BENCH SHEET

REVIEWED BY: AS599 10/24/14

Page 1 of 3

Date Created : 10/23/14

By Analyst : 661

Room Temp 22.0

Test Abbrev. **PH**

Testname pH

Date Analyzed : 10-24-14

Time Analyzed : 10:12

WORKGROUP **WG750477**

PROBE #1

Instrument : ORION VS-1

Calib. Date : 10/24/2014

ACCTNUM	SAMPLENUM Container ID	MATRIX EPA Method	TEMP in C	VALUE (pH Units)	REPORT
URSTAZ 10/20/14 1:50PM	L729012-04 17546480	SS 9045D	22.2	5.05	5.1
URSTAZ 10/20/14 1:55PM	L729012-05 17546490	SS 9045D	22.1	5.61	5.6
URSTAZ 10/20/14 2:45PM	L729012-06 17546500	SS 9045D	21.7	5.68	5.7
URSTAZ 10/20/14 2:50PM	L729012-07 17546510	SS 9045D	21.8	5.90	5.9
SMYR02 10/22/14 9:47AM	L729013-01 S17281265	SS 9045D	21.3	5.95	6.0
URSTAZ 10/20/14 3:40PM	L729021-01 17546869	SS 9045D	21.2	5.97	6.0
URSTAZ 10/20/14 3:30PM	L729021-02 17546879	SS 9045D	21.2	6.03	6.0
URSTAZ 10/20/14 11:50AM	L729024-01 17547037	SS 9045D	21.1	6.13	6.1
URSTAZ 10/20/14 11:55AM	L729024-02 17547047	SS 9045D	21.0	6.22	6.2
URSTAZ 10/20/14 10:45AM	L729024-04 17547077	SS 9045D	20.3	6.32	6.3

Quality Control : Reviewed by _____ Date _____

Slope 96.4%				
Buffer Check TV: 7.00	OBS: 7.06 TEMP: 21.6	OBS: 7.04 TEMP: 21.9	OBS: 7.05 TEMP: 22.1	
Duplicate 012-4	Δ= 0.02	$\bar{X}$= 5.06	0.40 %RPD	
Calibration-Buffer 4	172.0mV@ 21.3	14H28643	EXP: 01/31/16	LCS
Calibration-Buffer 7	0.1mV @ 21.2	14J22351	EXP: 02/28/16	14H19179
Calibration-Buffer 10	-175.8mV@ 20.8	14H28644	EXP: 10/31/15	EXP: 05/31/16
Cal. Buffer 13	-342.6mV @ 20.7	14J23414	EXP: 05/31/15	
Cal. Buffer 1	322.1 mV @ 20.7	14J01290	EXP: 03/31/16	

Date Created : 10/23/14

By Analyst : 661

Room Temp _____

Test Abbrev. **PH**

Testname pH

Date Analyzed : _____

Time Analyzed : _____

WORKGROUP **WG750477**

PROBE #1

Instrument : ORION VS-1

Calib. Date : 10/24/2014

ACCTNUM	SAMPLENUM Container ID	MATRIX EPA Method	TEMP in C	VALUE (pH Units)	REPORT
URSTAZ 10/20/14 10:50A	L729024-05 17547087	SS 9045D	20.3	6.35	6.4
URSTAZ 10/20/14 4:40PM	L729026-01 17546891	SS 9045D	20.5	6.36	6.4
URSTAZ 10/20/14 4:40PM	L729026-02 17547198	SS 9045D	20.4	6.39	6.4
URSTAZ 10/20/14 4:50PM	L729026-03 17547208	SS 9045D	20.4	6.43	6.4
URSTAZ 10/20/14 12:50PM	L729026-05 17547228	SS 9045D	20.4	6.51	6.5
URSTAZ 10/20/14 12:55PM	L729026-06 17547238	SS 9045D	20.1	6.54	6.5
URSTAZ 10/21/14 11:30A	L729030-01 17547320	SS 9045D	20.3	6.56	6.6
RSTAZ 10/21/14 11:35A	L729030-02 17547330	SS 9045D	21.1	6.59	6.6
URSTAZ 10/21/14 10:05A	L729030-04 17547342	SS 9045D	20.2	6.59	6.6
URSTAZ 10/21/14 10:12A	L729030-05 17547352	SS 9045D	20.2	6.58	6.6
NONE DUP L729012-04	WG750477-1	SS 9045D	22.1	5.07	5.07

Quality Control : Reviewed by _____ Date _____

Slope 96.4%				
Buffer Check TV: 7.00	OBS: TEMP:	OBS: TEMP:	OBS: TEMP:	
Duplicate 530-581	Δ= 0.03	X̄= 6.595	0.45 %RPD	
Calibration-Buffer 4	172.0mV@ 21.3	14H28643	EXP: 01/31/16	LCS
Calibration-Buffer 7	0.1mV @ 21.2	14J22351	EXP: 02/28/16	14H19179
Calibration-Buffer 10	-175.8mV@ 20.8	14H28644	EXP: 10/31/15	EXP: 05/31/16
Cal. Buffer 13	-342.6mV @ 20.7	14J23414	EXP: 05/31/15	
Cal. Buffer 1	322.1 mV @ 20.7	14J01290	EXP: 03/31/16	

Date Created : 10/23/14

By Analyst : 661

Room Temp _____

Test Abbrev. **PH**

Testname pH

Date Analyzed : _____

Time Analyzed : _____

WORKGROUP **WG750477**

PROBE #1

Instrument : ORION VS-1

Calib. Date : 10/24/2014

ACCTNUM	SAMPLENUM Container ID	MATRIX EPA Method	TEMP in C	VALUE (pH Units)	REPORT
NONE DUP 672903-05	WG750477-2	SS 9045D	22.1	6.61	6.61
NONE LCS	WG750477-3	SS 9045D	21.7	6.34	6.34
NONE LCSD	WG750477-4	SS 9045D	21.8	6.34	6.34

LCS-TV = 6.33

OV= 6.34

Range= 6.23-6.43

LCS/D: Delta = <0.1

Quality Control : Reviewed by _____ Date _____

Slope 96.4%				
Buffer Check TV: 7.00	OBS: TEMP:	OBS: TEMP:	OBS: TEMP:	
Duplicate	Δ=	X̄=	%RPD	
Calibration-Buffer 4	172.0mV@ 21.3	14H28643	EXP: 01/31/16	LCS
Calibration-Buffer 7	0.1mV @ 21.2	14J22351	EXP: 02/28/16	14H19179
Calibration-Buffer 10	-175.8mV@ 20.8	14H28644	EXP: 10/31/15	EXP: 05/31/16
Cal. Buffer 13	-342.6mV @ 20.7	14J23414	EXP: 05/31/15	
Cal. Buffer 1	322.1 mV @ 20.7	14J01290	EXP: 03/31/16	

pH PREP LOG
Environmental Science Corp.

WORKGROUP : WG750477

START 9:44 STOP 9:59

DATE: 10/24/2014

ANALYST 661

CENTRIFUGE TUBES LOT# E13090K3 VENDOR: GBO

Sample #	Matrix	SAMPLE WT	WATER WT
DUP 0124		20.07	20.10
L729012-04	SS	23.02	23.06
L729012-05	SS	23.00	23.01
L729012-06	SS	20.94	21.00
L729012-07	SS	22.89	22.91
L729013-01	SS	20.32	20.33
L729021-01	SS	20.19 ~~20.96~~	~~21.00~~ 20.21
L729021-02	SS	22.05	22.07
L729024-01	SS	20.96	21.00
L729024-02	SS	25.50	25.52
L729024-04	SS	21.78	21.80
L729024-05	SS	27.15	27.16
L729026-01	SS	24.37	24.38
L729026-02	SS	21.29	21.32
L729026-03	SS	20.82	20.86
L729026-05	SS	20.88	20.91
L729026-06	SS	22.05	22.10
L729030-01	SS	25.85	25.87
L729030-02	SS	20.94	20.96
L729030-04	SS	20.16	20.18
L729030-05	SS	20.19	20.20
DUP 030-5		20.11	20.11

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

23-OCT-14 05:40 PM

Work Group: WG750477 **Created:** 23-OCT-14

Department: 19 WetChem Prep **Operator:** 661 **Due:**

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	PR	Cont. Type
L729012-04	17546480	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729012-05	17546490	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729012-06	17546500	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729012-07	17546510	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729013-01	S17281265	Town of Smyrna WWTP	PH	SS	WG	22-OCT-14	23-OCT-14	R5	2ozClr-NoPres
L729021-01	17546869	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729021-02	17546879	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729024-01	17547037	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729024-02	17547047	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729024-04	17547077	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729024-05	17547087	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729026-01	17546891	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729026-02	17547198	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729026-03	17547208	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729026-05	17547228	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729026-06	17547238	URS Corporation - Tucson AZ - 10	PH	SS	WG	20-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729030-01	17547320	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729030-02	17547330	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729030-04	17547342	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	23-OCT-14	R5	4ozClr-NoPres
L729030-05	17547352	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	23-OCT-14	R5	4ozClr-NoPres

Comments:

L729012-04	EDD/QC4/DOD
L729012-05	EDD/QC4/DOD
729012-06	EDD/QC4/DOD
L729012-07	EDD/QC4/DOD

Mercury by Method 7471

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

Quality Control Summary
SDG: L729026

Mercury by Method 7471
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750208**
Analysis Date:	10/23/2014 4:21:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG750208**

Sample Name	Collect Date	Prep Date	Analysis Date
L729026-01 1x	10/20/2014	10/23/2014	10/23/2014
L729026-02 1x	10/20/2014	10/23/2014	10/23/2014
L729026-03 1x	10/20/2014	10/23/2014	10/23/2014
L729026-05 1x	10/20/2014	10/23/2014	10/23/2014
L729026-06 1x	10/20/2014	10/23/2014	10/23/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750208**
Analysis Date:	10/23/2014 4:21:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA3	Blank WG750208	Blank WG750208	11	10/23/2014	3:53 PM
CVAA3	LCS WG750208	LCS WG750208	12	10/23/2014	3:55 PM
CVAA3	MS WG750208	MS WG750208	15	10/23/2014	4:03 PM
CVAA3	DUP WG750208	DUP WG750208	17	10/23/2014	4:08 PM
CVAA3	TU503-SB01-DS01	L729026-01	22	10/23/2014	4:21 PM
CVAA3	TU503-SB01-NS01	L729026-02	23	10/23/2014	4:24 PM
CVAA3	TU503-SB01-NS02	L729026-03	24	10/23/2014	4:26 PM
CVAA3	TU503-SB05-NS01	L729026-05	25	10/23/2014	4:29 PM
CVAA3	TU503-SB05-NS02	L729026-06	26	10/23/2014	4:31 PM
CVAA3	LCSD WG750208	LCSD WG750208	105	10/23/2014	8:09 PM
CVAA3	MSD WG750208	MSD WG750208	107	10/23/2014	8:14 PM
CVAA3	PS WG750208	PS WG750208	143	10/23/2014	10:02 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750208**
Analysis Date:	10/23/2014 4:21:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Mercury	7439-97-6	< 0.0200	< 0.00280	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	50	12.4	15.831	128	71.6 - 128	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	50	12.4	15.191	123	71.6 - 128	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury	50	12.4	15.831	128	15.191	123	71.6 - 128		4	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750208**
Analysis Date:	10/23/2014 4:21:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Serial Dilution

L729032-07

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury	5	<0.0028	<0.014		10	

Matrix Spike / Matrix Spike Duplicate

L729032-07

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury	1	0.706	<0.0028	0.6754	96	0.4803	68	80 - 120	J6	34	20	J3

Post Digest Spike

L729032-07

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Mercury	1	0.15	<0.0028	0.4023	268	85-115	O1

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: CVAA3

Standard Type: ICVLL
Analysis Date: 10/23/2014 3:45 PM
Analysis Time: 1545
Data File: 102314CVAA3 SB

Analyte	Conc.			
Mercury	0.0004	0.0004	92 %	70-130

Standard Type: ICV
Analysis Date: 10/23/2014 3:48 PM
Analysis Time: 1548
Data File: 102314CVAA3 SB

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

Standard Type: CCV
Analysis Date: 10/23/2014 4:34 PM
Analysis Time: 1634
Data File: 102314CVAA3 SB

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

Standard Type: CCVLL
Analysis Date: 10/23/2014 7:47 PM
Analysis Time: 1947
Data File: 102314CVAA3 SB

Analyte	Conc.			
Mercury	0.0003	0.0004	86 %	70-130

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: CVAA3

Standard Type: CCV
Analysis Date: 10/23/2014 7:50 PM
Analysis Time: 1950
Data File: 102314CVAA3 SB

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

Standard Type: CCV
Analysis Date: 10/23/2014 9:00 PM
Analysis Time: 2100
Data File: 102314CVAA3 SB

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

Standard Type: CCVLL
Analysis Date: 10/23/2014 9:42 PM
Analysis Time: 2142
Data File: 102314CVAA3 SB

Analyte	Conc.			
Mercury	0.0004	0.0004	97 %	70-130

Standard Type: CCV
Analysis Date: 10/23/2014 9:44 PM
Analysis Time: 2144
Data File: 102314CVAA3 SB

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

*** - calibrated by linear regression*

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(800) 767-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: CVAA3

Standard Type: CCVLL
Analysis Date: 10/23/2014 10:08 PM
Analysis Time: 2208
Data File: 102314CVAA3 SB

Analyte	Conc.			
Mercury	0.0004	0.0004	89 %	70-130

Standard Type: CCV
Analysis Date: 10/23/2014 10:10 PM
Analysis Time: 2210
Data File: 102314CVAA3 SB

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

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: CVAA3

Standard Type: ICB
Analysis Date: 10/23/2014 3:50 PM
Analysis Time: 1550
Data File: 102314CVAA3 SB

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102314CVAA3

Standard Type: CCB
Analysis Date: 10/23/2014 4:37 PM
Analysis Time: 1637
Data File: 102314CVAA3 SB

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102314CVAA3

Standard Type: CCB
Analysis Date: 10/23/2014 7:52 PM
Analysis Time: 1952
Data File: 102314CVAA3 SB

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102314CVAA3

Standard Type: CCB
Analysis Date: 10/23/2014 9:02 PM
Analysis Time: 2102
Data File: 102314CVAA3 SB

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102314CVAA3

*** - calibrated by linear regression*

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(615) 758-5858
(800) 767-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: CVAA3

Standard Type: CCB
Analysis Date: 10/23/2014 9:47 PM
Analysis Time: 2147
Data File: 102314CVAA3 SB

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102314CVAA3

Standard Type: CCB
Analysis Date: 10/23/2014 10:13 PM
Analysis Time: 2213
Data File: 102314CVAA3 SB

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102314CVAA3

*** - calibrated by linear regression*

Raw Data

Laboratory Bench Sheet

Printed:10/23/2014 17:05

Workgroup:	WG750208
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	628
Prep Date:	102314

Calibration Standards

0.1 ppb	14J17114
0.2ppb	14J17114
0.4 ppb	14J17114
1.0 ppb	14J17114
2.0 ppb	14J17114
5.0 ppb	14J09762
10.0 ppb	14J09762

Hot Block

Name:HGA

Temp On:	92 deg C
Temp Off:	94 deg C
Time On:	1320
Time Off:	1350

QC Standards

ICV:	14J09761
ICV Low Level:	14J17114
CCV:	14J09762
CCV Low Level:	14J17114
LCS:	14J01303
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J02360
KMNO4:	14I28146
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J16034
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J13880

Comments:

Worksheet ID:367802

Laboratory Bench Sheet

Printed:10/23/2014 17:05

Workgroup:	WG750209
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	628
Prep Date:	102314

Calibration Standards

0.1 ppb	14J17114
0.2ppb	14J17114
0.4 ppb	14J17114
1.0 ppb	14J17114
2.0 ppb	14J17114
5.0 ppb	14J09762
10.0 ppb	14J09762

Hot Block

Name:HGB

Temp On:	92 deg C
Temp Off:	93 deg C
Time On:	1320
Time Off:	1350

QC Standards

ICV:	14J09761
ICV Low Level:	14J17114
CCV:	14J09762
CCV Low Level:	14J17114
LCS:	14J01303
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J02360
KMNO4:	14I28146
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J16034
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J13880

Comments:

Worksheet ID:367802

Laboratory Bench Sheet

Printed:10/23/2014 17:05

Workgroup:	WG750210
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	628
Prep Date:	102314

Calibration Standards

0.1 ppb	14J23419
0.2ppb	14J23419
0.4 ppb	14J23419
1.0 ppb	14J23419
2.0 ppb	14J23419
5.0 ppb	14J09762
10.0 ppb	14J09762

Hot Block

Name:HGB

Temp On:	92 deg C
Temp Off:	93 deg C
Time On:	1320
Time Off:	1350

QC Standards

ICV:	14J09761
ICV Low Level:	14J23419
CCV:	14J09762
CCV Low Level:	14J23419
LCS:	14J01303
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J16034
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J13880

Comments:

Worksheet ID:367802

Laboratory Bench Sheet

Printed:10/23/2014 17:05

Workgroup:	WG749952
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	628
Prep Date:	102214

Calibration Standards

0.1 ppb	14J17114
0.2ppb	14J17114
0.4 ppb	14J17114
1.0 ppb	14J17114
2.0 ppb	14J17114
5.0 ppb	14J09762
10.0 ppb	14J09762

Hot Block

Name:HGB

Temp On:	93 deg C
Temp Off:	95 deg C
Time On:	1440
Time Off:	1510

QC Standards

ICV:	14J09761
ICV Low Level:	14J17114
CCV:	14J09762
CCV Low Level:	14J17114
LCS:	14J01303
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J02360
KMNO4:	14I28146
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J16034
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J13880

Comments:

Worksheet ID:367802

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
BLANK WG750208	S5	0.3320	27.5			WG750208	g	Tan	Sand
LCS WG750208	S5	0.3000	27.5	1	50	WG750208	g	Brown	Dirt
LCSD WG750208	S5	0.3000	27.5	1	50	WG750208	g	Brown	Dirt
L729032-07 WG750208	SS	0.2970	27.5			WG750208	g	Multi-colored	Clay
MS WG750208 L729032-07	S5	0.3110	27.5			WG750208	g	Multi-colored	Clay
MSD WG750208 L729032-07	S5	0.3160	27.5			WG750208	g	Multi-colored	Clay
SD WG750208 L729032-07	S5	0.2970	27.5	2	10	WG750208	g	Multi-colored	Clay
L729024-01 WG750208	SS	0.2660	27.5			WG750208	g	Multi-colored	Sand
L729024-02 WG750208	SS	0.3060	27.5			WG750208	g	Brown	Sand
L729024-04 WG750208	SS	0.3020	27.5			WG750208	g	Brown	Sand
L729024-05 WG750208	SS	0.2780	27.5			WG750208	g	Multi-colored	Soil
L729026-01 WG750208	SS	0.3390	27.5			WG750208	g	Brown	Sand
L729026-02 WG750208	SS	0.2850	27.5			WG750208	g	Brown	Sand
L729026-03 WG750208	SS	0.3360	27.5			WG750208	g	Brown	Sand
L729026-05 WG750208	SS	0.2670	27.5			WG750208	g	Multi-colored	Sand

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729026-06 WG750208	SS	0.2880	27.5			WG750208	g	Brown	Sand
L729030-01 WG750208	SS	0.2860	27.5			WG750208	g	Brown	Sand
L729030-02 WG750208	SS	0.2710	27.5			WG750208	g	Multi-colored	Sand
L729030-04 WG750208	SS	0.2790	27.5			WG750208	g	Multi-colored	Sand
L729030-05 WG750208	SS	0.2640	27.5			WG750208	g	Brown	Sand
L729032-01 WG750208	SS	0.3190	27.5			WG750208	g	Tan	Sand
L729032-02 WG750208	SS	0.2720	27.5			WG750208	g	Multi-colored	Sand
L729032-04 WG750208	SS	0.3030	27.5			WG750208	g	Brown	Sand
L729032-05 WG750208	SS	0.2670	27.5			WG750208	g	Brown	Sand
L729032-06 WG750208	SS	0.3090	27.5			WG750208	g	Multi-colored	Sand
L729078-01 WG750208	SS	0.3180	27.5			WG750208	g	Brown	Liquid Sludge
INSTBLK WG750208	S5		27.5			WG750208	g		
BLANK WG750209	S5	0.3220	27.5			WG750209	g	Tan	Sand
LCS WG750209	S5	0.3000	27.5	1	50	WG750209	g	Brown	Dirt
LCSD WG750209	S5	0.3000	27.5	1	50	WG750209	g	Brown	Dirt

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729100-01 WG750209	SS	0.3070	27.5			WG750209	g	Dark-brown	Soil
MS WG750209 L729100-01	S5	0.3020	27.5			WG750209	g	Dark-brown	Soil
MSD WG750209 L729100-01	S5	0.3020	27.5			WG750209	g	Dark-brown	Soil
SD WG750209 L729100-01	S5	0.3070	27.5	2	10	WG750209	g	Dark-brown	Soil
L728942-04 WG750209	SS	0.3430	27.5			WG750209	g	Multi-colored	Clay
L728942-05 WG750209	SS	0.2830	27.5			WG750209	g	Brown	Dirt
L728942-06 WG750209	SS	0.3360	27.5			WG750209	g	Brown	Clay
L728942-07 WG750209	SS	0.2820	27.5			WG750209	g	Dark-brown	Clay
L728942-09 WG750209	SS	0.2890	27.5			WG750209	g	Brown	Clay
L728942-10 WG750209	SS	0.2660	27.5			WG750209	g	Grey	Mud
L728942-11 WG750209	SS	0.2730	27.5			WG750209	g	Multi-colored	Sand
L729022-01 WG750209	SS	0.2750	27.5			WG750209	g	Multi-colored	Soil
L729022-02 WG750209	SS	0.3470	27.5			WG750209	g	Multi-colored	Clay
L729022-03 WG750209	SS	0.2890	27.5			WG750209	g	Brown	Clay
L729022-04 WG750209	SS	0.2990	27.5			WG750209	g	Red	Clay

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729022-05 WG750209	SS	0.2960	27.5			WG750209	g	Multi-colored	Clay
L729022-06 WG750209	SS	0.2960	27.5			WG750209	g	Multi-colored	Clay
L729022-07 WG750209	SS	0.3410	27.5			WG750209	g	Multi-colored	Clay
L729022-08 WG750209	SS	0.2540	27.5			WG750209	g	Brown	Clay
L729022-09 WG750209	SS	0.2870	27.5			WG750209	g	Red	Clay
L729022-10 WG750209	SS	0.2750	27.5			WG750209	g	Multi-colored	Clay
L729022-11 WG750209	SS	0.3230	27.5			WG750209	g	Multi-colored	Clay
L729022-12 WG750209	SS	0.2960	27.5			WG750209	g	Red	Clay
INSTBLK WG750209	S5		27.5			WG750209	g		
BLANK WG750210	S5	0.3390	27.5			WG750210	g	Tan	Sand
LCS WG750210	S5	0.3000	27.5	1	50	WG750210	g	Brown	Dirt
LCSD WG750210	S5	0.3000	27.5	1	50	WG750210	g	Brown	Dirt
L729021-02 WG750210	SS	0.2860	27.5			WG750210	g	Tan	Sand
MS WG750210 L729021-02	S5	0.3050	27.5			WG750210	g	Tan	Sand
MSD WG750210 L729021-02	S5	0.3030	27.5			WG750210	g	Tan	Sand

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
SD WG750210 L729021-02	S5	0.2860	27.5	2	10	WG750210	g	Tan	Sand
L729012-01 WG750210	SS	0.2820	27.5			WG750210	g	Brown	Dirt
L729012-02 WG750210	SS	0.2900	27.5			WG750210	g	Brown	Sand
L729012-04 WG750210	SS	0.2770	27.5			WG750210	g	Brown	Sand
L729012-05 WG750210	SS	0.2970	27.5			WG750210	g	Multi-colored	Sand
L729012-06 WG750210	SS	0.3200	27.5			WG750210	g	Tan	Sand
L729012-07 WG750210	SS	0.3110	27.5			WG750210	g	Multi-colored	Sand
L729021-01 WG750210	SS	0.3480	27.5			WG750210	g	Brown	Sand
L729092-01 WG750210	SS	0.2610	27.5			WG750210	g	Black	Soil
L729092-02 WG750210	SS	0.2910	27.5			WG750210	g	Brown	Soil
L729092-03 WG750210	SS	0.3090	27.5			WG750210	g	Brown	Soil
L729092-04 WG750210	SS	0.2690	27.5			WG750210	g	Brown	Soil
L729092-05 WG750210	SS	0.3250	27.5			WG750210	g	Brown	Soil
L729092-06 WG750210	SS	0.2760	27.5			WG750210	g	Brown	Mud
L729092-07 WG750210	SS	0.3100	27.5			WG750210	g	Brown	Dirt

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729092-08 WG750210	SS	0.3230	27.5			WG750210	g	Brown	Mud
L729092-09 WG750210	SS	0.3230	27.5			WG750210	g	Brown	Dirt
L729092-10 WG750210	SS	0.2680	27.5			WG750210	g	Black	Soil
L729092-11 WG750210	SS	0.3160	27.5			WG750210	g	Brown	Clay
L729092-12 WG750210	SS	0.2660	27.5			WG750210	g	Black	Soil
INSTBLK WG750210	S5		27.5			WG750210	g		
BLANK WG749952	PAINT	0.3050	27.5			WG749952	g	Tan	Sand
LCS WG749952	PAINT	0.3000	27.5	1	50	WG749952	g	Brown	Dirt
LCSD WG749952	PAINT	0.3000	27.5	1	50	WG749952	g	Brown	Dirt
L728797-10 WG749952	IH	0.3050	27.5			WG749952	g	Grey	Paint Chips
MS WG749952 L728797-10	PAINT	0.3010	27.5			WG749952	g	Grey	Paint Chips
MSD WG749952 L728797-10	PAINT	0.2860	27.5			WG749952	g	Grey	Paint Chips
SD WG749952 L728797-10	PAINT	0.3050	27.5	2	10	WG749952	g	Grey	Paint Chips
L728797-01 WG749952	IH	0.2710	27.5			WG749952	g	Brown	Paint Chips
L728797-02 WG749952	IH	0.3470	27.5			WG749952	g	Grey	Paint Chips

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L728797-03 WG749952	IH	0.3080	27.5			WG749952	g	Green	Paint Chips
L728797-04 WG749952	IH	0.2940	27.5			WG749952	g	Yellow	Paint Chips
L728797-05 WG749952	IH	0.3120	27.5			WG749952	g	Green	Paint Chips
L728797-06 WG749952	IH	0.2900	27.5			WG749952	g	Green	Paint Chips
L728797-07 WG749952	IH	0.3440	27.5			WG749952	g	Tan	Paint Chips
L728797-08 WG749952	IH	0.3150	27.5			WG749952	g	Red	Paint Chips
L728797-09 WG749952	IH	0.3140	27.5			WG749952	g	Blue	Paint Chips
L728799-01 WG749952	IH	0.2550	27.5			WG749952	g	Multi-colored	Paint Chips
L728799-02 WG749952	IH	0.3140	27.5			WG749952	g	Yellow	Paint Chips
L728799-03 WG749952	IH	0.2660	27.5			WG749952	g	Red	Paint Chips
L728799-04 WG749952	IH	0.2690	27.5			WG749952	g	Red	Paint Chips
L728799-05 WG749952	IH	0.2840	27.5			WG749952	g	Red	Paint Chips
L728799-06 WG749952	IH	0.3350	27.5			WG749952	g	Multi-colored	Paint Chips
L728799-07 WG749952	IH	0.2890	27.5			WG749952	g	Multi-colored	Paint Chips
L728799-08 WG749952	IH	0.3200	27.5			WG749952	g	Tan	Paint Chips

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L728799-09 WG749952	IH	0.3160	27.5			WG749952	g	Yellow	Paint Chips
L728799-10 WG749952	IH	0.3140	27.5			WG749952	g	Yellow	Paint Chips
INSTBLK WG749952	PAINT		27.5			WG749952	g		

Comments:

Worksheet ID:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

23-OCT-14 10:14 PM

Work Group: WG750210

Department: 5 Metals

Operator: 657

Created: 22-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729012-01	17546369	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729012-02	17546450	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729012-04	17546480	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729012-05	17546490	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729012-06	17546500	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729012-07	17546510	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729021-01	17546869	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729021-02	17546879	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729092-01	17548705	Envirosure	HG	SS	HERE	20-OCT-14	29-OCT-14	RX	2ozClr-NoPres
L729092-02		Envirosure	HG	SS	HERE	20-OCT-14	29-OCT-14	RX	
L729092-03		Envirosure	HG	SS	HERE	20-OCT-14	29-OCT-14	RX	
L729092-04		Envirosure	HG	SS	HERE	20-OCT-14	29-OCT-14	RX	
L729092-05	17548715	Envirosure	HG	SS	HERE	20-OCT-14	29-OCT-14	RX	2ozClr-NoPres
L729092-06	17548717	Envirosure	HG	SS	HERE	20-OCT-14	29-OCT-14	RX	2ozClr-NoPres
L729092-07	17548720	Envirosure	HG	SS	HERE	21-OCT-14	29-OCT-14	RX	2ozClr-NoPres
L729092-08	17548723	Envirosure	HG	SS	HERE	21-OCT-14	29-OCT-14	RX	2ozClr-NoPres
L729092-09	17548726	Envirosure	HG	SS	HERE	21-OCT-14	29-OCT-14	RX	2ozClr-NoPres
L729092-10	17548729	Envirosure	HG	SS	HERE	21-OCT-14	29-OCT-14	RX	2ozClr-NoPres
L729092-11	17548732	Envirosure	HG	SS	HERE	21-OCT-14	29-OCT-14	RX	2ozClr-NoPres
L729092-12	17548735	Envirosure	HG	SS	HERE	21-OCT-14	29-OCT-14	RX	2ozClr-NoPres

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

23-OCT-14 10:14 PM

Work Group: WG749952

Department: 4 Metals Prep

Operator: 572

Created: 21-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L728797-01		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728797-02		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728797-03		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728797-04		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728797-05		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728797-06		Terracon - St.Louis, MO	HG	IH	DONE	20-OCT-14	28-OCT-14	R5
L728797-07		Terracon - St.Louis, MO	HG	IH	DONE	20-OCT-14	28-OCT-14	R5
L728797-08		Terracon - St.Louis, MO	HG	IH	DONE	20-OCT-14	28-OCT-14	R5
L728797-09		Terracon - St.Louis, MO	HG	IH	DONE	20-OCT-14	28-OCT-14	R5
L728797-10		Terracon - St.Louis, MO	HG	IH	DONE	20-OCT-14	28-OCT-14	R5
L728799-01		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-02		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-03		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-04		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-05		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-06		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-07		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-08		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-09		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5
L728799-10		Terracon - St.Louis, MO	HG	IH	DONE	17-OCT-14	28-OCT-14	R5

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

23-OCT-14 10:13 PM

Work Group: WG750209

Department: 5 Metals

Operator: 657

Created: 22-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L728942-04	17545578	ERM - Walnut Creek, CA	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	2ozClr-NoPres
L728942-05	17545589	ERM - Walnut Creek, CA	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	2ozClr-NoPres
L728942-06	17545595	ERM - Walnut Creek, CA	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	2ozClr-NoPres
L728942-07	17545601	ERM - Walnut Creek, CA	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	2ozClr-NoPres
L728942-09	17545627	ERM - Walnut Creek, CA	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	2ozClr-NoPres
L728942-10	17545633	ERM - Walnut Creek, CA	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	2ozClr-NoPres
L728942-11	17545641	ERM - Walnut Creek, CA	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	2ozClr-NoPres
L729022-01		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-02		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-03		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-04		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-05		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-06		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-07		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-08		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-09		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-10		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-11		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729022-12		H.F. McClure Maintenance Service	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	
L729100-01		EnCana Oil & Gas - Longmont, CO	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

23-OCT-14 10:13 PM

Work Group: WG750208

Department: 5 Metals

Operator: 657

Created: 22-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729024-01	17547037	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729024-02	17547047	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729024-04	17547077	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729024-05	17547087	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729026-01	17546891	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729026-02	17547198	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729026-03	17547208	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729026-05	17547228	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729026-06	17547238	URS Corporation - Tucson AZ - 10	HG	SS	HERE	20-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729030-01	17547320	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729030-02	17547330	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729030-04	17547342	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729030-05	17547352	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729032-01	17547366	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729032-02	17547376	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729032-04	17547388	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729032-05	17547398	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729032-06	17547408	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729032-07	17547418	URS Corporation - Tucson AZ - 10	HG	SS	HERE	21-OCT-14	29-OCT-14	R5	4ozClr-NoPres
L729078-01	S17173969	Springfield Wastewater Plant	HG	SS	HERE	22-OCT-14	29-OCT-14	R5	250mlHDPE-NoPre

Comments:

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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\102314CVAA3 SB.sif
Batch ID: 657
Results Data Set: 102314CVAA3 SB
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Method Loaded
Method Name: Hg Soil PPM-TEST **Method Last Saved: 10/21/2014 3:59:18 PM**
Method Description: HgSoil

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin, Calc Int	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: CALBLK **Date Collected: 10/23/2014 3:26:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CALBLK

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	-0.0004	0.0001	15:27:45	Yes
2		[0.00]	0.0001	0.0002	0.0001	15:28:22	Yes
3		[0.00]	0.0001	0.0002	0.0001	15:28:58	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0000				
%RSD:		0.00	35.50				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14J17114 **Date Collected: 10/23/2014 3:29:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14J17114

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0025	0.0209	0.0026	15:30:18	Yes
2		[0.00020]	0.0022	0.0185	0.0023	15:30:55	Yes
3		[0.00020]	0.0023	0.0189	0.0024	15:31:31	Yes
Mean:		[0.00020]	0.0024				
SD:		0.00000	0.0001				
%RSD:		0.00000	5.77				

Standard number 1 applied. [0.00020]
Correlation Coef.: 1.000000 Slope: 11.81169 Intercept: -0.00000

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14J17114 **Date Collected: 10/23/2014 3:31:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14J17114

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0055	0.0433	0.0055	15:32:52	Yes
2		[0.00040]	0.0053	0.0420	0.0054	15:33:29	Yes

3	[0.00040]	0.0053	0.0424	0.0054	15:34:05	Yes
Mean:	[0.00040]	0.0054				
SD:	0.00000	0.0001				
%RSD:	0.00000	1.79				

Standard number 2 applied. [0.00040]
Correlation Coef.: 0.997731 Slope: 13.37504 Intercept: -0.00010

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14J17114 **Date Collected: 10/23/2014 3:34:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14J17114

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0131	0.1045	0.0132	15:35:28	Yes
2		[0.00100]	0.0127	0.1014	0.0128	15:36:04	Yes
3		[0.00100]	0.0127	0.1012	0.0128	15:36:41	Yes
Mean:		[0.00100]	0.0129				
SD:		0.00000	0.0002				
%RSD:		0.00000	1.91				

Standard number 3 applied. [0.00100]
Correlation Coef.: 0.999551 Slope: 12.92537 Intercept: -0.00003

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Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14J17114 **Date Collected: 10/23/2014 3:37:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14J17114

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0268	0.2155	0.0269	15:38:04	Yes
2		[0.00200]	0.0263	0.2088	0.0263	15:38:40	Yes
3		[0.00200]	0.0262	0.2093	0.0263	15:39:17	Yes
Mean:		[0.00200]	0.0264				
SD:		0.00000	0.0004				
%RSD:		0.00000	1.35				

Standard number 4 applied. [0.00200]
Correlation Coef.: 0.999837 Slope: 13.22621 Intercept: -0.00012

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14J09762 **Date Collected: 10/23/2014 3:39:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD5 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00500]	0.0689	0.5509	0.0690	15:40:38	Yes
2		[0.00500]	0.0672	0.5380	0.0673	15:41:15	Yes
3		[0.00500]	0.0671	0.5366	0.0672	15:41:51	Yes
Mean:		[0.00500]	0.0677				
SD:		0.00000	0.0010				
%RSD:		0.00000	1.53				

Standard number 5 applied. [0.00500]
Correlation Coef.: 0.999923 Slope: 13.56877 Intercept: -0.00033

==========

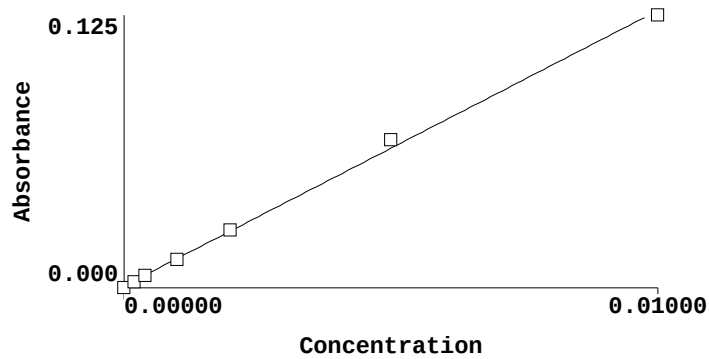
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14J09762 **Date Collected: 10/23/2014 3:42:15 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: STD6 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.01000]	0.1276	1.0364	0.1277	15:43:12	Yes
2		[0.01000]	0.1241	1.0094	0.1242	15:43:48	Yes
3		[0.01000]	0.1238	1.0047	0.1239	15:44:24	Yes
Mean:		[0.01000]	0.1252				
SD:		0.00000	0.0021				
%RSD:		0.00000	1.70				

Standard number 6 applied. [0.01000]
Correlation Coef.: 0.999220 Slope: 12.64309 Intercept: 0.00068



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	-0.00005	0.00	35.5
STD1 14J17114	0.0024	0.00020	0.00013	0.00	5.8
STD2 14J17114	0.0054	0.00040	0.00037	0.00	1.8
STD3 14J17114	0.0129	0.00100	0.00096	0.00	1.9
STD4 14J17114	0.0264	0.00200	0.00204	0.00	1.4
STD5 14J09762	0.0677	0.00500	0.00530	0.00	1.5
STD6 14J09762	0.1252	0.01000	0.00985	0.00	1.7

Correlation Coef.: 0.999220 Slope: 12.64309 Intercept: 0.00068

Analytical Sequence
Method: Hg Soil PPM-TEST

Seq.	Loc.	ID	Status
1	1	CALBLK	Applied
2	2	STD1 14J17114	Applied
3	3	STD2 14J17114	Applied
4	4	STD3 14J17114	Applied
5	5	STD4 14J17114	Applied
6	6	STD5 14J09762	Applied
7	7	STD6 14J09762	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\102314CVAA3 SB.sif
Batch ID: 657
Results Data Set: 102314CVAA3 SB
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J17114 **Date Collected: 10/23/2014 3:45:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14J17114

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00037	0.0053	0.0437	0.0054	15:46:30	Yes
2		0.00037	0.0053	0.0425	0.0054	15:47:07	Yes
3		0.00037	0.0053	0.0439	0.0054	15:47:43	Yes
Mean:		0.00037	0.0053				
SD:		0.00000	0.0000				
%RSD:		0.4035	0.35				

QC value within limits for Hg 253.7 Recovery = 92.06%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14J09761 **Date Collected: 10/23/2014 3:48:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14J09761

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00300	0.0386	0.3129	0.0386	15:49:08	Yes
2		0.00297	0.0383	0.3098	0.0384	15:49:44	Yes
3		0.00297	0.0383	0.3091	0.0383	15:50:21	Yes
Mean:		0.00298	0.0384				
SD:		0.00001	0.0002				
%RSD:		0.4609	0.45				

QC value within limits for Hg 253.7 Recovery = 99.37%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 10/23/2014 3:50:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		-0.00005	0.0000	-0.0002	0.0001	15:51:44	Yes
2		-0.00005	0.0001	0.0011	0.0002	15:52:20	Yes
3		-0.00005	0.0001	0.0009	0.0002	15:52:57	Yes
Mean:		-0.00005	0.0001				
SD:		0.00000	0.0000				
%RSD:		7.346	82.18				

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

Sequence No.: 4
Sample ID: BLANK WG750208
Analyst: 657
Initial Sample Wt: 0.332 g
Dilution:
Autosampler Location: 9
Date Collected: 10/23/2014 3:53:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: BLANK WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00370	-0.00004	0.0001	0.0008	0.0002	15:54:18	Yes
2	-0.00376	-0.00005	0.0001	0.0010	0.0002	15:54:54	Yes
3	-0.00361	-0.00004	0.0001	0.0015	0.0002	15:55:31	Yes
Mean:	-0.00369	-0.00004	0.0001				
SD:	0.00007	0.00000	0.0000				
%RSD:	1.938	1.938	9.61				

Sequence No.: 5
Sample ID: LCS WG750208
Analyst: 657
Initial Sample Wt: 0.3 g
Dilution: 50X
Autosampler Location: 10
Date Collected: 10/23/2014 3:55:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: LCS WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	16.10	0.00351	0.0451	0.3559	0.0452	15:56:52	Yes
2	15.82	0.00345	0.0443	0.3491	0.0444	15:57:28	Yes
3	15.58	0.00340	0.0436	0.3433	0.0437	15:58:05	Yes
Mean:	15.83	0.00345	0.0443				
SD:	0.2612	0.00006	0.0007				
%RSD:	1.650	1.650	1.62				

Sequence No.: 6
Sample ID: LCSD WG750208
Analyst: 657
Initial Sample Wt: 0.3 g
Dilution: 50X
Autosampler Location: 11
Date Collected: 10/23/2014 3:58:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: LCSD WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	17.91	0.00391	0.0501	0.3959	0.0502	15:59:27	Yes
2	17.35	0.00379	0.0485	0.3829	0.0486	16:00:03	Yes
3	17.18	0.00375	0.0481	0.3778	0.0481	16:00:40	Yes
Mean:	17.48	0.00381	0.0489				
SD:	0.3821	0.00008	0.0011				
%RSD:	2.186	2.186	2.16				

Sequence No.: 7
Sample ID: L729032-07 WG750208
Analyst: 657
Initial Sample Wt: 0.297 g
Dilution:
Autosampler Location: 12
Date Collected: 10/23/2014 4:01:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729032-07 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00068	-0.00001	0.0006	0.0049	0.0007	16:02:02	Yes
2	-0.00089	-0.00001	0.0006	0.0048	0.0006	16:02:39	Yes
3	-0.00184	-0.00002	0.0004	0.0033	0.0005	16:03:16	Yes
Mean:	-0.00114	-0.00001	0.0005				
SD:	0.00062	0.00001	0.0001				
%RSD:	54.27	54.27	16.15				

Sequence No.: 8
Sample ID: MS WG750208 L729032-07
Analyst: 657
Initial Sample Wt: 0.311 g
Dilution:
Autosampler Location: 13
Date Collected: 10/23/2014 4:03:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: MS WG750208 L729032-07

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.4821	0.00545	0.0696	0.5652	0.0697	16:04:39	Yes
2	0.4773	0.00540	0.0689	0.5562	0.0690	16:05:15	Yes
3	0.4750	0.00537	0.0686	0.5546	0.0687	16:05:51	Yes
Mean:	0.4782	0.00541	0.0690				
SD:	0.00363	0.00004	0.0005				
%RSD:	0.7589	0.7589	0.75				

Sequence No.: 9
Sample ID: MSD WG750208 L729032-07
Analyst: 657
Initial Sample Wt: 0.316 g
Dilution:
Autosampler Location: 14
Date Collected: 10/23/2014 4:06:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: MSD WG750208 L729032-07

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.3447	0.00396	0.0508	0.4115	0.0508	16:07:13	Yes
2	0.3378	0.00388	0.0497	0.4046	0.0498	16:07:50	Yes
3	0.3378	0.00388	0.0498	0.4050	0.0498	16:08:26	Yes
Mean:	0.3401	0.00391	0.0501				
SD:	0.00399	0.00005	0.0006				
%RSD:	1.173	1.173	1.16				

Sequence No.: 10
Sample ID: SD WG750208 L729032-07
Analyst: 657
Initial Sample Wt: 0.297 g
Dilution: 5X
Autosampler Location: 15
Date Collected: 10/23/2014 4:08:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: SD WG750208 L729032-07

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02565	-0.00006	-0.0000	-0.0000	0.0001	16:09:46	Yes
2	-0.02401	-0.00005	0.0000	0.0005	0.0001	16:10:23	Yes
3	-0.02203	-0.00005	0.0001	0.0008	0.0002	16:10:59	Yes
Mean:	-0.02390	-0.00005	0.0000				
SD:	0.00181	0.00000	0.0000				
%RSD:	7.574	7.574	205.04				

Sequence No.: 11
Sample ID: L729024-01 WG750208
Analyst: 657
Initial Sample Wt: 0.266 g
Dilution:
Autosampler Location: 16
Date Collected: 10/23/2014 4:11:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729024-01 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00408	-0.00004	0.0002	0.0021	0.0003	16:12:19	Yes
2	-0.00458	-0.00004	0.0001	0.0017	0.0002	16:12:56	Yes
3	-0.00389	-0.00004	0.0002	0.0017	0.0003	16:13:32	Yes
Mean:	-0.00419	-0.00004	0.0002				
SD:	0.00036	0.00000	0.0000				
%RSD:	8.529	8.529	26.48				

Sequence No.: 12 | **Autosampler Location: 17**
Sample ID: L729024-02 WG750208 | **Date Collected: 10/23/2014 4:13:55 PM**
Analyst: 657 | **Data Type: Original**
Initial Sample Wt: 0.306 g | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol: 27.5 mL**

Replicate Data: L729024-02 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00389	-0.00004	0.0001	0.0012	0.0002	16:14:52	Yes
2	-0.00377	-0.00004	0.0001	0.0008	0.0002	16:15:29	Yes
3	-0.00405	-0.00005	0.0001	0.0015	0.0002	16:16:05	Yes
Mean:	-0.00390	-0.00004	0.0001				
SD:	0.00014	0.00000	0.0000				
%RSD:	3.567	3.567	15.37				

Sequence No.: 13 | **Autosampler Location: 18**
Sample ID: L729024-04 WG750208 | **Date Collected: 10/23/2014 4:16:28 PM**
Analyst: 657 | **Data Type: Original**
Initial Sample Wt: 0.302 g | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol: 27.5 mL**

Replicate Data: L729024-04 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00338	-0.00004	0.0002	0.0010	0.0003	16:17:25	Yes
2	-0.00214	-0.00002	0.0004	0.0040	0.0005	16:18:02	Yes
3	-0.00366	-0.00004	0.0002	0.0018	0.0003	16:18:38	Yes
Mean:	-0.00306	-0.00003	0.0003				
SD:	0.00081	0.00001	0.0001				
%RSD:	26.41	26.41	44.46				

Sequence No.: 14 | **Autosampler Location: 19**
Sample ID: L729024-05 WG750208 | **Date Collected: 10/23/2014 4:19:02 PM**
Analyst: 657 | **Data Type: Original**
Initial Sample Wt: 0.278 g | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol: 27.5 mL**

Replicate Data: L729024-05 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00297	-0.00003	0.0003	0.0021	0.0004	16:19:59	Yes
2	-0.00337	-0.00003	0.0002	0.0021	0.0003	16:20:36	Yes
3	-0.00199	-0.00002	0.0004	0.0039	0.0005	16:21:13	Yes
Mean:	-0.00278	-0.00003	0.0003				
SD:	0.00071	0.00001	0.0001				
%RSD:	25.56	25.56	28.24				

Sequence No.: 15 | **Autosampler Location: 20**
Sample ID: L729026-01 WG750208 | **Date Collected: 10/23/2014 4:21:37 PM**
Analyst: 657 | **Data Type: Original**
Initial Sample Wt: 0.339 g | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol: 27.5 mL**

Replicate Data: L729026-01 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00301	-0.00004	0.0002	0.0020	0.0003	16:22:34	Yes
2	-0.00309	-0.00004	0.0002	0.0012	0.0003	16:23:10	Yes
3	-0.00246	-0.00003	0.0003	0.0030	0.0004	16:23:47	Yes
Mean:	-0.00285	-0.00004	0.0002				
SD:	0.00034	0.00000	0.0001				
%RSD:	11.99	11.99	23.03				

Sequence No.: 16
Sample ID: L729026-02 WG750208
Analyst: 657
Initial Sample Wt: 0.285 g
Dilution:
Autosampler Location: 21
Date Collected: 10/23/2014 4:24:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729026-02 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00356	-0.00004	0.0002	0.0017	0.0003	16:25:08	Yes
2	-0.00353	-0.00004	0.0002	0.0019	0.0003	16:25:45	Yes
3	-0.00371	-0.00004	0.0002	0.0019	0.0003	16:26:21	Yes
Mean:	-0.00360	-0.00004	0.0002				
SD:	0.00010	0.00000	0.0000				
%RSD:	2.659	2.659	6.11				

Sequence No.: 17
Sample ID: L729026-03 WG750208
Analyst: 657
Initial Sample Wt: 0.336 g
Dilution:
Autosampler Location: 22
Date Collected: 10/23/2014 4:26:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729026-03 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00350	-0.00004	0.0001	0.0018	0.0002	16:27:43	Yes
2	-0.00318	-0.00004	0.0002	0.0021	0.0003	16:28:20	Yes
3	-0.00303	-0.00004	0.0002	0.0024	0.0003	16:28:56	Yes
Mean:	-0.00324	-0.00004	0.0002				
SD:	0.00024	0.00000	0.0000				
%RSD:	7.398	7.398	20.95				

Sequence No.: 18
Sample ID: L729026-05 WG750208
Analyst: 657
Initial Sample Wt: 0.267 g
Dilution:
Autosampler Location: 23
Date Collected: 10/23/2014 4:29:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729026-05 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00389	-0.00004	0.0002	0.0017	0.0003	16:30:19	Yes
2	-0.00287	-0.00003	0.0003	0.0038	0.0004	16:30:55	Yes
3	-0.00339	-0.00003	0.0003	0.0017	0.0003	16:31:32	Yes
Mean:	-0.00338	-0.00003	0.0003				
SD:	0.00051	0.00000	0.0001				
%RSD:	15.10	15.10	23.92				

Sequence No.: 19
Sample ID: L729026-06 WG750208
Analyst: 657
Initial Sample Wt: 0.288 g
Dilution:
Autosampler Location: 24
Date Collected: 10/23/2014 4:31:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729026-06 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00380	-0.00004	0.0002	0.0016	0.0003	16:32:55	Yes
2	-0.00405	-0.00004	0.0001	0.0022	0.0002	16:33:31	Yes
3	-0.00354	-0.00004	0.0002	0.0024	0.0003	16:34:08	Yes
Mean:	-0.00380	-0.00004	0.0002				
SD:	0.00025	0.00000	0.0000				
%RSD:	6.690	6.690	19.39				

==========

Sequence No.: 20 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/23/2014 4:34:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00259	0.0335	0.2729	0.0335	16:35:30	Yes
2		0.00255	0.0329	0.2674	0.0330	16:36:06	Yes
3		0.00252	0.0325	0.2658	0.0326	16:36:43	Yes
Mean:		0.00255	0.0329				
SD:		0.00004	0.0005				
%RSD:		1.506	1.47				

QC value within limits for Hg 253.7 Recovery = 102.08%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/23/2014 4:37:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		-0.00005	0.0001	0.0010	0.0002	16:38:03	Yes
2		-0.00005	0.0001	0.0013	0.0002	16:38:40	Yes
3		-0.00004	0.0002	0.0020	0.0003	16:39:17	Yes
Mean:		-0.00004	0.0001				
SD:		0.00000	0.0001				
%RSD:		9.646	46.65				

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

==========

Sequence No.: 22 **Autosampler Location: 25**
Sample ID: L729030-01 WG750208 **Date Collected: 10/23/2014 4:39:40 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.286 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729030-01 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00327	-0.00003	0.0002	0.0021	0.0003	16:40:38	Yes
2	-0.00398	-0.00004	0.0002	0.0015	0.0002	16:41:15	Yes
3	-0.00441	-0.00005	0.0001	0.0005	0.0002	16:41:51	Yes
Mean:	-0.00388	-0.00004	0.0002				
SD:	0.00057	0.00001	0.0001				
%RSD:	14.79	14.79	45.53				

==========

Sequence No.: 23 **Autosampler Location: 26**
Sample ID: L729030-02 WG750208 **Date Collected: 10/23/2014 4:42:16 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.271 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729030-02 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00322	-0.00003	0.0003	0.0022	0.0004	16:43:13	Yes
2	-0.00284	-0.00003	0.0003	0.0031	0.0004	16:43:49	Yes
3	-0.00329	-0.00003	0.0003	0.0028	0.0003	16:44:26	Yes

Mean:	-0.00312	-0.00003	0.0003
SD:	0.00024	0.00000	0.0000
%RSD:	7.706	7.706	10.39

==========

Sequence No.: 24 **Autosampler Location: 27**
Sample ID: L729030-04 WG750208 **Date Collected: 10/23/2014 4:44:50 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.279 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729030-04 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00328	-0.00003	0.0003	0.0027	0.0003	16:45:47	Yes
2	-0.00309	-0.00003	0.0003	0.0027	0.0004	16:46:24	Yes
3	-0.00372	-0.00004	0.0002	0.0018	0.0003	16:47:00	Yes
Mean:	-0.00337	-0.00003	0.0002				
SD:	0.00032	0.00000	0.0000				
%RSD:	9.591	9.591	16.89				

==========

Sequence No.: 25 **Autosampler Location: 28**
Sample ID: L729030-05 WG750208 **Date Collected: 10/23/2014 4:47:23 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.264 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729030-05 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00378	-0.00004	0.0002	0.0029	0.0003	16:48:21	Yes
2	-0.00306	-0.00003	0.0003	0.0035	0.0004	16:48:57	Yes
3	-0.00419	-0.00004	0.0002	0.0014	0.0003	16:49:34	Yes
Mean:	-0.00368	-0.00004	0.0002				
SD:	0.00057	0.00001	0.0001				
%RSD:	15.57	15.57	30.13				

==========

Sequence No.: 26 **Autosampler Location: 29**
Sample ID: L729032-01 WG750208 **Date Collected: 10/23/2014 4:49:58 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.319 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729032-01 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00370	-0.00004	0.0001	0.0009	0.0002	16:50:55	Yes
2	-0.00380	-0.00004	0.0001	0.0011	0.0002	16:51:31	Yes
3	-0.00370	-0.00004	0.0001	0.0012	0.0002	16:52:08	Yes
Mean:	-0.00373	-0.00004	0.0001				
SD:	0.00006	0.00000	0.0000				
%RSD:	1.639	1.639	6.93				

==========

Sequence No.: 27 **Autosampler Location: 30**
Sample ID: L729032-02 WG750208 **Date Collected: 10/23/2014 4:52:31 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.272 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729032-02 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00386	-0.00004	0.0002	0.0017	0.0003	16:53:28	Yes
2	-0.00365	-0.00004	0.0002	0.0021	0.0003	16:54:05	Yes
3	-0.00395	-0.00004	0.0002	0.0019	0.0003	16:54:41	Yes

Mean:	-0.00382	-0.00004	0.0002
SD:	0.00015	0.00000	0.0000
%RSD:	4.017	4.017	9.68

==========

Sequence No.: 28 **Autosampler Location: 31**
Sample ID: L729032-04 WG750208 **Date Collected: 10/23/2014 4:55:05 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.303 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729032-04 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00208	-0.00002	0.0004	0.0034	0.0005	16:56:02	Yes
2	-0.00229	-0.00003	0.0004	0.0032	0.0004	16:56:39	Yes
3	-0.00260	-0.00003	0.0003	0.0028	0.0004	16:57:15	Yes
Mean:	-0.00232	-0.00003	0.0004				
SD:	0.00026	0.00000	0.0000				
%RSD:	11.23	11.23	10.29				

==========

Sequence No.: 29 **Autosampler Location: 32**
Sample ID: L729032-05 WG750208 **Date Collected: 10/23/2014 4:57:39 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.267 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729032-05 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00433	-0.00004	0.0001	0.0016	0.0002	16:58:37	Yes
2	-0.00350	-0.00003	0.0002	0.0027	0.0003	16:59:13	Yes
3	-0.00425	-0.00004	0.0002	0.0018	0.0002	16:59:49	Yes
Mean:	-0.00403	-0.00004	0.0002				
SD:	0.00046	0.00000	0.0001				
%RSD:	11.36	11.36	30.83				

==========

Sequence No.: 30 **Autosampler Location: 33**
Sample ID: L729032-06 WG750208 **Date Collected: 10/23/2014 5:00:13 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.309 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729032-06 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00072	0.00001	0.0008	0.0066	0.0009	17:01:10	Yes
2	0.00010	0.00000	0.0007	0.0062	0.0008	17:01:47	Yes
3	-0.00004	0.00000	0.0007	0.0063	0.0008	17:02:23	Yes
Mean:	0.00026	0.00000	0.0007				
SD:	0.00040	0.00000	0.0001				
%RSD:	154.9	154.9	8.02				

==========

Sequence No.: 31 **Autosampler Location: 34**
Sample ID: L729078-01 WG750208 **Date Collected: 10/23/2014 5:02:47 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.318 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729078-01 WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01306	0.00015	0.0026	0.0222	0.0027	17:03:45	Yes
2	0.01314	0.00015	0.0026	0.0212	0.0027	17:04:22	Yes
3	0.01316	0.00015	0.0026	0.0215	0.0027	17:04:58	Yes

Mean:	0.01312	0.00015	0.0026
SD:	0.00005	0.00000	0.0000
%RSD:	0.3997	0.3997	0.30

==========

Sequence No.: 32 **Autosampler Location: 35**
Sample ID: INSTBLK WG750208 **Date Collected: 10/23/2014 5:05:23 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: INSTBLK WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		-0.00006	-0.0000	-0.0007	0.0000	17:06:21	Yes
2		-0.00005	0.0001	0.0009	0.0001	17:06:57	Yes
3		-0.00006	-0.0001	-0.0007	0.0000	17:07:34	Yes
Mean:		-0.00006	-0.0000				
SD:		0.00001	0.0001				
%RSD:		9.408	285.54				

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.

==========

Sequence No.: 33 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/23/2014 5:07:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00258	0.0333	0.2743	0.0334	17:08:55	Yes
2		0.00252	0.0325	0.2675	0.0326	17:09:32	Yes
3		0.00249	0.0322	0.2655	0.0323	17:10:08	Yes
Mean:		0.00253	0.0327				
SD:		0.00004	0.0006				
%RSD:		1.769	1.73				

QC value within limits for Hg 253.7 Recovery = 101.29%
All analyte(s) passed QC.

==========

Sequence No.: 34 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/23/2014 5:10:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		-0.00005	0.0001	0.0011	0.0002	17:11:29	Yes
2		-0.00004	0.0001	0.0014	0.0002	17:12:06	Yes
3		-0.00006	-0.0000	-0.0003	0.0001	17:12:42	Yes
Mean:		-0.00005	0.0001				
SD:		0.00001	0.0001				
%RSD:		13.69	120.74				

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 WG750209 **Date Collected: 10/23/2014 5:13:05 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.322 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: BLANK WG750209

Mean:	-0.00005	0.0000
SD:	0.00001	0.0001
%RSD:	9.976	229.46

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.

==========

Sequence No.: 95 **Autosampler Location: 3**
Sample ID: CCVLL 14J17114 **Date Collected: 10/23/2014 7:47:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J17114

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00035	0.0051	0.0432	0.0051	19:48:46	Yes
2		0.00034	0.0050	0.0416	0.0051	19:49:22	Yes
3		0.00034	0.0050	0.0426	0.0051	19:49:59	Yes
Mean:		0.00034	0.0050				
SD:		0.00000	0.0000				
%RSD:		0.8440	0.73				

QC value within limits for Hg 253.7 Recovery = 86.04%
All analyte(s) passed QC.

==========

Sequence No.: 96 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/23/2014 7:50:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00248	0.0320	0.2720	0.0321	19:51:20	Yes
2		0.00244	0.0315	0.2643	0.0315	19:51:57	Yes
3		0.00243	0.0314	0.2635	0.0315	19:52:33	Yes
Mean:		0.00245	0.0316				
SD:		0.00003	0.0004				
%RSD:		1.143	1.12				

QC value within limits for Hg 253.7 Recovery = 97.93%
All analyte(s) passed QC.

==========

Sequence No.: 97 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/23/2014 7:52:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		-0.00005	0.0001	0.0013	0.0002	19:53:54	Yes
2		-0.00005	0.0000	0.0004	0.0001	19:54:30	Yes
3		-0.00005	0.0000	0.0005	0.0001	19:55:06	Yes
Mean:		-0.00005	0.0000				
SD:		0.00000	0.0000				
%RSD:		7.050	90.50				

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

Analytical Sequence
Method: Hg Soil PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14J17114	QC Passed
2	157	ICV 14J09761	QC Passed
3	1	ICB	QC Passed
4	9	BLANK WG750208	Analyzed

5	10	LCS WG750208	Analyzed
6	11	LCSD WG750208	Analyzed
7	12	L729032-07 WG750208	Analyzed
8	13	MS WG750208 L729032-07	Analyzed
9	14	MSD WG750208 L729032-07	Analyzed
10	15	SD WG750208 L729032-07	Analyzed
11	16	L729024-01 WG750208	Analyzed
12	17	L729024-02 WG750208	Analyzed
13	18	L729024-04 WG750208	Analyzed
14	19	L729024-05 WG750208	Analyzed
15	20	L729026-01 WG750208	Analyzed
16	21	L729026-02 WG750208	Analyzed
17	22	L729026-03 WG750208	Analyzed
18	23	L729026-05 WG750208	Analyzed
19	24	L729026-06 WG750208	Analyzed
20	8	CCV 14J09762	QC Passed
21	1	CCB	QC Passed
22	25	L729030-01 WG750208	Analyzed
23	26	L729030-02 WG750208	Analyzed
24	27	L729030-04 WG750208	Analyzed
25	28	L729030-05 WG750208	Analyzed
26	29	L729032-01 WG750208	Analyzed
27	30	L729032-02 WG750208	Analyzed
28	31	L729032-04 WG750208	Analyzed
29	32	L729032-05 WG750208	Analyzed
30	33	L729032-06 WG750208	Analyzed
31	34	L729078-01 WG750208	Analyzed
32	35	INSTBLK WG750208	Analyzed
33	8	CCV 14J09762	QC Passed
34	1	CCB	QC Passed
35	36	BLANK WG750209	Analyzed
36	37	LCS WG750209	Analyzed
37	38	LCSD WG750209	Analyzed
38	39	L729100-01 WG750209	Analyzed
39	40	MS WG750209 L729100-01	Analyzed
40	41	MSD WG750209 L729100-01	Analyzed
41	42	SD WG750209 L729100-01	Analyzed
42	43	L728942-04 WG750209	Analyzed
43	44	L728942-05 WG750209	Analyzed
44	45	L728942-06 WG750209	Analyzed
45	46	L728942-07 WG750209	Analyzed
46	47	L728942-09 WG750209	Analyzed
47	48	L728942-10 WG750209	Analyzed
48	49	L728942-11 WG750209	Analyzed
49	50	L729022-01 WG750209	Analyzed
50	51	L729022-02 WG750209	Analyzed
51	8	CCV 14J09762	QC Passed
52	1	CCB	QC Passed
53	52	L729022-03 WG750209	Analyzed
54	53	L729022-04 WG750209	Analyzed
55	54	L729022-05 WG750209	Analyzed
56	55	L729022-06 WG750209	Analyzed
57	56	L729022-07 WG750209	Analyzed
58	57	L729022-08 WG750209	Analyzed
59	58	L729022-09 WG750209	Analyzed
60	59	L729022-10 WG750209	Analyzed
61	60	L729022-11 WG750209	Analyzed
62	61	L729022-12 WG750209	Analyzed
63	62	INSTBLK WG750209	Analyzed
64	8	CCV 14J09762	QC Passed
65	1	CCB	QC Passed
66	63	BLANK WG750210	Analyzed
67	64	LCS WG750210	Analyzed
68	65	LCSD WG750210	Analyzed
69	66	L729021-02 WG750210	Analyzed
70	67	MS WG750210 L729021-02	Analyzed
71	68	MSD WG750210 L729021-02	Analyzed
72	69	SD WG750210 L729021-02	Analyzed
73	70	L729012-01 WG750210	Analyzed
74	71	L729012-02 WG750210	Analyzed
75	72	L729012-04 WG750210	Analyzed
76	73	L729012-05 WG750210	Analyzed

77	74	L729012-06 WG750210	Analyzed
78	75	L729012-07 WG750210	Analyzed
79	76	L729021-01 WG750210	Analyzed
80	77	L729092-01 WG750210	Analyzed
81	78	L729092-02 WG750210	Analyzed
82	8	CCV 14J09762	QC Passed
83	1	CCB	QC Passed
84	79	L729092-03 WG750210	Analyzed
85	80	L729092-04 WG750210	Analyzed
86	81	L729092-05 WG750210	Analyzed
87	82	L729092-06 WG750210	Analyzed
88	83	L729092-07 WG750210	Analyzed
89	84	L729092-08 WG750210	Analyzed
90	85	L729092-09 WG750210	Analyzed
91	86	L729092-10 WG750210	Analyzed
92	87	L729092-11 WG750210	Analyzed
93	88	L729092-12 WG750210	Analyzed
94	89	INSTBLK WG750210	Analyzed
95	3	CCVLL 14J17114	QC Passed
96	8	CCV 14J09762	QC Passed
97	1	CCB	QC Passed

==========

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\102314CVAA3 SB.sif
Batch ID: 657`
Results Data Set: 102314CVAA3 SB
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J17114 **Date Collected: 10/23/2014 8:08:33 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\102314CVAA3 SB.sif
Batch ID: 657`
Results Data Set: 102314CVAA3 SB
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 87 **Autosampler Location: 90**
Sample ID: LCSD WG750208 **Date Collected: 10/23/2014 8:09:05 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.3 g **Initial Sample Vol:**
Dilution: 50X **Sample Prep Vol: 27.5 mL**

Replicate Data: LCSD WG750208

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	15.44	0.00337	0.0433	0.3669	0.0434	20:10:02	Yes
2	15.31	0.00334	0.0429	0.3593	0.0430	20:10:38	Yes
3	14.82	0.00323	0.0416	0.3452	0.0417	20:11:15	Yes
Mean:	15.19	0.00331	0.0426				
SD:	0.3249	0.00007	0.0009				
%RSD:	2.139	2.139	2.10				

==========

Sequence No.: 88 **Autosampler Location: 91**
Sample ID: LCSD WG750209 **Date Collected: 10/23/2014 8:11:39 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.3 g **Initial Sample Vol:**
Dilution: 50X **Sample Prep Vol: 27.5 mL**

Replicate Data: LCSD WG750209

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	14.10	0.00308	0.0396	0.3336	0.0397	20:12:37	Yes
2	13.81	0.00301	0.0388	0.3206	0.0388	20:13:13	Yes
3	13.50	0.00295	0.0379	0.3147	0.0380	20:13:50	Yes
Mean:	13.80	0.00301	0.0388				
SD:	0.3009	0.00007	0.0008				
%RSD:	2.180	2.180	2.14				

==========

Sequence No.: 89 **Autosampler Location: 92**
Sample ID: MSD WG750208 L729032-07 **Date Collected: 10/23/2014 8:14:14 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.316 g **Initial Sample Vol:**

Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: MSD WG750208 L729032-07

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.3279	0.00377	0.0483	0.4142	0.0484	20:15:13	Yes
2	0.3639	0.00418	0.0536	0.4523	0.0536	20:15:49	Yes
3	0.3282	0.00377	0.0484	0.4110	0.0484	20:16:26	Yes
Mean:	0.3400	0.00391	0.0501				
SD:	0.02072	0.00024	0.0030				
%RSD:	6.092	6.092	6.01				

==========

Sequence No.: 90 **Autosampler Location: 93**
Sample ID: LCS WG749952 **Date Collected: 10/23/2014 8:16:50 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.3 g **Initial Sample Vol:**
Dilution: 50X **Sample Prep Vol: 27.5 mL**

Replicate Data: LCS WG749952

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	16.27	0.00355	0.0456	0.3799	0.0456	20:17:48	Yes
2	12.80	0.00279	0.0360	0.2937	0.0361	20:18:24	Yes
3	12.21	0.00266	0.0344	0.2789	0.0344	20:19:01	Yes
Mean:	13.76	0.00300	0.0386				
SD:	2.193	0.00048	0.0060				
%RSD:	15.94	15.94	15.66				

==========

Sequence No.: 91 **Autosampler Location: 94**
Sample ID: LCSD WG749952 **Date Collected: 10/23/2014 8:19:26 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.3 g **Initial Sample Vol:**
Dilution: 50X **Sample Prep Vol: 27.5 mL**

Replicate Data: LCSD WG749952

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.44	0.00250	0.0322	0.2672	0.0323	20:20:24	Yes
2	11.31	0.00247	0.0319	0.2587	0.0320	20:21:00	Yes
3	11.23	0.00245	0.0317	0.2572	0.0317	20:21:37	Yes
Mean:	11.33	0.00247	0.0319				
SD:	0.1047	0.00002	0.0003				
%RSD:	0.9248	0.9248	0.91				

User canceled analysis.

Sample concentration is greater than that of the highest standard.

2	53.61	0.01224	0.1555	1.2847	0.1556	20:59:20	Yes

Sample concentration is greater than that of the highest standard.

3	53.51	0.01222	0.1552	1.2826	0.1553	20:59:57	Yes

Sample concentration is greater than that of the highest standard.

Mean:	53.30	0.01217	0.1546
SD:	0.4502	0.00010	0.0013
%RSD:	0.8446	0.8446	0.84

Sample concentration is greater than that of the highest standard.

==========

Sequence No.: 106 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/23/2014 9:00:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00260	0.0335	0.3010	0.0336	21:01:20	Yes
2		0.00257	0.0332	0.2916	0.0333	21:01:56	Yes
3		0.00253	0.0327	0.2879	0.0328	21:02:33	Yes
Mean:		0.00257	0.0331				
SD:		0.00003	0.0004				
%RSD:		1.230	1.20				

QC value within limits for Hg 253.7 Recovery = 102.66%
All analyte(s) passed QC.

==========

Sequence No.: 107 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/23/2014 9:02:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		-0.00002	0.0004	0.0041	0.0005	21:03:54	Yes
2		-0.00004	0.0002	0.0012	0.0003	21:04:30	Yes
3		-0.00004	0.0002	0.0017	0.0003	21:05:07	Yes
Mean:		-0.00003	0.0003				
SD:		0.00001	0.0001				
%RSD:		29.62	46.00				

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

==========

Sequence No.: 108 **Autosampler Location: 109**
Sample ID: L728799-01 WG749952 **Date Collected: 10/23/2014 9:05:30 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.255 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L728799-01 WG749952

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.557	0.01444	0.1833	1.6610	0.1833	21:06:28	Yes

Sample concentration is greater than that of the highest standard.

2	1.535	0.01423	0.1806	1.6170	0.1807	21:07:04	Yes

Sample concentration is greater than that of the highest standard.

3	1.523	0.01412	0.1792	1.6101	0.1793	21:07:41	Yes

Sample concentration is greater than that of the highest standard.

Mean:	1.538	0.01426	0.1810
SD:	0.01759	0.00016	0.0021
%RSD:	1.143	1.143	1.14

Sample concentration is greater than that of the highest standard.

1	1.067	0.01183	0.1503	1.2613	0.1504	21:35:14	Yes
Sample concentration is greater than that of the highest standard.							
2	1.037	0.01150	0.1461	1.2063	0.1462	21:35:50	Yes
Sample concentration is greater than that of the highest standard.							
3	1.036	0.01149	0.1460	1.2049	0.1461	21:36:27	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	1.047	0.01161	0.1475				
SD:	0.01757	0.00019	0.0025				
%RSD:	1.679	1.679	1.67				
Sample concentration is greater than that of the highest standard.							

==========

Sequence No.: 120 **Autosampler Location: 121**
Sample ID: PS WG750208 L729032-07 **Date Collected: 10/23/2014 9:36:52 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.297 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: PS WG750208 L729032-07

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00019	0.00000	0.0007	0.0057	0.0008	21:37:51	Yes
2	-0.00018	0.00000	0.0007	0.0060	0.0007	21:38:27	Yes
3	-0.00049	-0.00001	0.0006	0.0055	0.0007	21:39:04	Yes
Mean:	-0.00016	0.00000	0.0007				
SD:	0.00034	0.00000	0.0000				
%RSD:	213.1	213.1	7.08				

==========

Sequence No.: 121 **Autosampler Location: 122**
Sample ID: LOD Soil 0.075 **Date Collected: 10/23/2014 9:39:29 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.3 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: LOD Soil 0.075

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00403	-0.00004	0.0001	0.0012	0.0002	21:40:28	Yes
2	-0.00371	-0.00004	0.0002	0.0012	0.0002	21:41:05	Yes
3	-0.00446	-0.00005	0.0001	0.0004	0.0001	21:41:42	Yes
Mean:	-0.00407	-0.00004	0.0001				
SD:	0.00038	0.00000	0.0001				
%RSD:	9.245	9.245	44.93				

==========

Sequence No.: 122 **Autosampler Location: 3**
Sample ID: CCVLL 14J17114 **Date Collected: 10/23/2014 9:42:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J17114

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00040	0.0058	0.0521	0.0059	21:43:05	Yes
2		0.00039	0.0056	0.0499	0.0057	21:43:42	Yes
3		0.00037	0.0054	0.0473	0.0054	21:44:18	Yes
Mean:		0.00039	0.0056				
SD:		0.00002	0.0002				
%RSD:		4.273	3.76				

QC value within limits for Hg 253.7 Recovery = 97.09%
All analyte(s) passed QC.

==========

Sequence No.: 123 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/23/2014 9:44:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00260	0.0336	0.2987	0.0337	21:45:40	Yes
2		0.00257	0.0331	0.2926	0.0332	21:46:16	Yes
3		0.00257	0.0331	0.2919	0.0332	21:46:53	Yes
Mean:		0.00258	0.0333				
SD:		0.00002	0.0003				
%RSD:		0.7966	0.78				

QC value within limits for Hg 253.7 Recovery = 103.20%
All analyte(s) passed QC.

Sequence No.: 124 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/23/2014 9:47:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		-0.00003	0.0004	0.0038	0.0004	21:48:14	Yes
2		-0.00003	0.0003	0.0023	0.0003	21:48:50	Yes
3		-0.00004	0.0001	0.0017	0.0002	21:49:27	Yes
Mean:		-0.00003	0.0003				
SD:		0.00001	0.0001				
%RSD:		26.03	43.99				

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

Analytical Sequence
Method: Hg Soil PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14J17114	
2	157	ICV 14J09761	
3	1	ICB	
4	9	BLANK WG750208	
5	10	LCS WG750208	
6	11	LCSD WG750208	
7	12	L729032-07 WG750208	
8	13	MS WG750208 L729032-07	
9	14	MSD WG750208 L729032-07	
10	15	SD WG750208 L729032-07	
11	16	L729024-01 WG750208	
12	17	L729024-02 WG750208	
13	18	L729024-04 WG750208	
14	19	L729024-05 WG750208	
15	20	L729026-01 WG750208	
16	21	L729026-02 WG750208	
17	22	L729026-03 WG750208	
18	23	L729026-05 WG750208	
19	24	L729026-06 WG750208	
20	25	L729030-01 WG750208	
21	26	L729030-02 WG750208	
22	27	L729030-04 WG750208	
23	28	L729030-05 WG750208	
24	29	L729032-01 WG750208	
25	30	L729032-02 WG750208	
26	31	L729032-04 WG750208	
27	32	L729032-05 WG750208	
28	33	L729032-06 WG750208	
29	34	L729078-01 WG750208	
30	35	INSTBLK WG750208	
31	36	BLANK WG750209	
32	37	LCS WG750209	
33	38	LCSD WG750209	
34	39	L729100-01 WG750209	

35	40	MS WG750209 L729100-01	
36	41	MSD WG750209 L729100-01	
37	42	SD WG750209 L729100-01	
38	43	L728942-04 WG750209	
39	44	L728942-05 WG750209	
40	45	L728942-06 WG750209	
41	46	L728942-07 WG750209	
42	47	L728942-09 WG750209	
43	48	L728942-10 WG750209	
44	49	L728942-11 WG750209	
45	50	L729022-01 WG750209	
46	51	L729022-02 WG750209	
47	52	L729022-03 WG750209	
48	53	L729022-04 WG750209	
49	54	L729022-05 WG750209	
50	55	L729022-06 WG750209	
51	56	L729022-07 WG750209	
52	57	L729022-08 WG750209	
53	58	L729022-09 WG750209	
54	59	L729022-10 WG750209	
55	60	L729022-11 WG750209	
56	61	L729022-12 WG750209	
57	62	INSTBLK WG750209	
58	63	BLANK WG750210	
59	64	LCS WG750210	
60	65	LCSD WG750210	
61	66	L729021-02 WG750210	
62	67	MS WG750210 L729021-02	
63	68	MSD WG750210 L729021-02	
64	69	SD WG750210 L729021-02	
65	70	L729012-01 WG750210	
66	71	L729012-02 WG750210	
67	72	L729012-04 WG750210	
68	73	L729012-05 WG750210	
69	74	L729012-06 WG750210	
70	75	L729012-07 WG750210	
71	76	L729021-01 WG750210	
72	77	L729092-01 WG750210	
73	78	L729092-02 WG750210	
74	79	L729092-03 WG750210	
75	80	L729092-04 WG750210	
76	81	L729092-05 WG750210	
77	82	L729092-06 WG750210	
78	83	L729092-07 WG750210	
79	84	L729092-08 WG750210	
80	85	L729092-09 WG750210	
81	86	L729092-10 WG750210	
82	87	L729092-11 WG750210	
83	88	L729092-12 WG750210	
84	89	INSTBLK WG750210	
85	8	CCV 14J09762	
86	1	CCB	
87	90	LCSD WG750208	
88	91	LCSD WG750209	
89	92	MSD WG750208 L729032-07	
90	93	LCS WG749952	
91	94	LCSD WG749952	
92	95	BLANK WG749952	Analyzed
93	96	L728797-10 WG749952	Analyzed
94	97	MS WG749952 L728797-10	Analyzed
95	98	MSD WG749952 L728797-10	Analyzed
96	99	SD WG749952 L728797-10	Analyzed
97	100	L728797-01 WG749952	Analyzed
98	101	L728797-02 WG749952	Analyzed
99	102	L728797-03 WG749952	Analyzed
100	103	L728797-04 WG749952	Analyzed
101	104	L728797-05 WG749952	Analyzed
102	105	L728797-06 WG749952	Analyzed
103	106	L728797-07 WG749952	Analyzed
104	107	L728797-08 WG749952	Analyzed
105	108	L728797-09 WG749952	Analyzed
106	8	CCV 14J09762	QC Passed

107	1	CCB	QC Passed
108	109	L728799-01 WG749952	Analyzed
109	110	L728799-02 WG749952	Analyzed
110	111	L728799-03 WG749952	Analyzed
111	112	L728799-04 WG749952	Analyzed
112	113	L728799-05 WG749952	Analyzed
113	114	L728799-06 WG749952	Analyzed
114	115	L728799-07 WG749952	Analyzed
115	116	L728799-08 WG749952	Analyzed
116	117	L728799-09 WG749952	Analyzed
117	118	L728799-10 WG749952	Analyzed
118	119	INSTBLK WG749952	Analyzed
119	120	PS WG749952 L728797-10	Analyzed
120	121	PS WG750208 L729032-07	Analyzed
121	122	LOD Soil 0.075	Analyzed
122	3	CCVLL 14J17114	QC Passed
123	8	CCV 14J09762	QC Passed
124	1	CCB	QC Passed

==========

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\102314CVAA3 SB.sif
Batch ID: 657`
Results Data Set: 102314CVAA3 SB
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J17114 **Date Collected: 10/23/2014 10:02:24 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\102314CVAA3 SB.sif
Batch ID: 657`
Results Data Set: 102314CVAA3 SB
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 120 **Autosampler Location: 121**
Sample ID: PS WG750208 L729032-07 **Date Collected: 10/23/2014 10:02:49 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.297 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: PS WG750208 L729032-07

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.4261	0.00460	0.0589	0.5322	0.0589	22:03:48	Yes
2	0.3932	0.00425	0.0544	0.4847	0.0545	22:04:24	Yes
3	0.3877	0.00419	0.0536	0.4803	0.0537	22:05:00	Yes
Mean:	0.4023	0.00435	0.0556				
SD:	0.02075	0.00022	0.0028				
%RSD:	5.157	5.157	5.09				

==========

Sequence No.: 121 **Autosampler Location: 122**
Sample ID: LOD Soil 0.075 **Date Collected: 10/23/2014 10:05:25 PM**
Analyst: 657` **Data Type: Original**
Initial Sample Wt: 0.3 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: LOD Soil 0.075

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00269	-0.00003	0.0003	0.0030	0.0004	22:06:24	Yes
2	-0.00221	-0.00002	0.0004	0.0036	0.0005	22:07:00	Yes
3	-0.00300	-0.00003	0.0003	0.0029	0.0003	22:07:37	Yes
Mean:	-0.00263	-0.00003	0.0003				
SD:	0.00040	0.00000	0.0001				
%RSD:	15.14	15.14	17.50				

==========

Sequence No.: 122 **Autosampler Location: 3**
Sample ID: CCVLL 14J17114 **Date Collected: 10/23/2014 10:08:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J17114

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00036	0.0053	0.0473	0.0053	22:09:00	Yes
2		0.00035	0.0052	0.0457	0.0052	22:09:37	Yes
3		0.00035	0.0052	0.0464	0.0052	22:10:13	Yes
Mean:		0.00036	0.0052				
SD:		0.00000	0.0001				
%RSD:		1.253	1.09				

QC value within limits for Hg 253.7 Recovery = 89.17%
All analyte(s) passed QC.

Sequence No.: 123 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/23/2014 10:10:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00248	0.0321	0.2859	0.0321	22:11:35	Yes
2		0.00245	0.0316	0.2803	0.0317	22:12:11	Yes
3		0.00245	0.0316	0.2790	0.0317	22:12:48	Yes
Mean:		0.00246	0.0318				
SD:		0.00002	0.0003				
%RSD:		0.8471	0.83				

QC value within limits for Hg 253.7 Recovery = 98.31%
All analyte(s) passed QC.

Sequence No.: 124 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/23/2014 10:13:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		-0.00003	0.0003	0.0026	0.0004	22:14:08	Yes
2		-0.00004	0.0002	0.0018	0.0003	22:14:45	Yes
3		-0.00005	0.0001	0.0006	0.0001	22:15:21	Yes
Mean:		-0.00004	0.0002				
SD:		0.00001	0.0001				
%RSD:		24.37	64.85				

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

Analytical Sequence
Method: Hg Soil PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14J17114	
2	157	ICV 14J09761	
3	1	ICB	
4	9	BLANK WG750208	
5	10	LCS WG750208	
6	11	LCSD WG750208	
7	12	L729032-07 WG750208	
8	13	MS WG750208 L729032-07	
9	14	MSD WG750208 L729032-07	
10	15	SD WG750208 L729032-07	
11	16	L729024-01 WG750208	
12	17	L729024-02 WG750208	
13	18	L729024-04 WG750208	
14	19	L729024-05 WG750208	

15	20	L729026-01 WG750208
16	21	L729026-02 WG750208
17	22	L729026-03 WG750208
18	23	L729026-05 WG750208
19	24	L729026-06 WG750208
20	25	L729030-01 WG750208
21	26	L729030-02 WG750208
22	27	L729030-04 WG750208
23	28	L729030-05 WG750208
24	29	L729032-01 WG750208
25	30	L729032-02 WG750208
26	31	L729032-04 WG750208
27	32	L729032-05 WG750208
28	33	L729032-06 WG750208
29	34	L729078-01 WG750208
30	35	INSTBLK WG750208
31	36	BLANK WG750209
32	37	LCS WG750209
33	38	LCSD WG750209
34	39	L729100-01 WG750209
35	40	MS WG750209 L729100-01
36	41	MSD WG750209 L729100-01
37	42	SD WG750209 L729100-01
38	43	L728942-04 WG750209
39	44	L728942-05 WG750209
40	45	L728942-06 WG750209
41	46	L728942-07 WG750209
42	47	L728942-09 WG750209
43	48	L728942-10 WG750209
44	49	L728942-11 WG750209
45	50	L729022-01 WG750209
46	51	L729022-02 WG750209
47	52	L729022-03 WG750209
48	53	L729022-04 WG750209
49	54	L729022-05 WG750209
50	55	L729022-06 WG750209
51	56	L729022-07 WG750209
52	57	L729022-08 WG750209
53	58	L729022-09 WG750209
54	59	L729022-10 WG750209
55	60	L729022-11 WG750209
56	61	L729022-12 WG750209
57	62	INSTBLK WG750209
58	63	BLANK WG750210
59	64	LCS WG750210
60	65	LCSD WG750210
61	66	L729021-02 WG750210
62	67	MS WG750210 L729021-02
63	68	MSD WG750210 L729021-02
64	69	SD WG750210 L729021-02
65	70	L729012-01 WG750210
66	71	L729012-02 WG750210
67	72	L729012-04 WG750210
68	73	L729012-05 WG750210
69	74	L729012-06 WG750210
70	75	L729012-07 WG750210
71	76	L729021-01 WG750210
72	77	L729092-01 WG750210
73	78	L729092-02 WG750210
74	79	L729092-03 WG750210
75	80	L729092-04 WG750210
76	81	L729092-05 WG750210
77	82	L729092-06 WG750210
78	83	L729092-07 WG750210
79	84	L729092-08 WG750210
80	85	L729092-09 WG750210
81	86	L729092-10 WG750210
82	87	L729092-11 WG750210
83	88	L729092-12 WG750210
84	89	INSTBLK WG750210
85	8	CCV 14J09762
86	1	CCB

87	90	LCSD WG750208	
88	91	LCSD WG750209	
89	92	MSD WG750208 L729032-07	
90	93	LCS WG749952	
91	94	LCSD WG749952	
92	95	BLANK WG749952	
93	96	L728797-10 WG749952	
94	97	MS WG749952 L728797-10	
95	98	MSD WG749952 L728797-10	
96	99	SD WG749952 L728797-10	
97	100	L728797-01 WG749952	
98	101	L728797-02 WG749952	
99	102	L728797-03 WG749952	
100	103	L728797-04 WG749952	
101	104	L728797-05 WG749952	
102	105	L728797-06 WG749952	
103	106	L728797-07 WG749952	
104	107	L728797-08 WG749952	
105	108	L728797-09 WG749952	
106	8	CCV 14J09762	
107	1	CCB	
108	109	L728799-01 WG749952	
109	110	L728799-02 WG749952	
110	111	L728799-03 WG749952	
111	112	L728799-04 WG749952	
112	113	L728799-05 WG749952	
113	114	L728799-06 WG749952	
114	115	L728799-07 WG749952	
115	116	L728799-08 WG749952	
116	117	L728799-09 WG749952	
117	118	L728799-10 WG749952	
118	119	INSTBLK WG749952	
119	120	PS WG749952 L728797-10	
120	121	PS WG750208 L729032-07	Analyzed
121	122	LOD Soil 0.075	Analyzed
122	3	CCVLL 14J17114	QC Passed
123	8	CCV 14J09762	QC Passed
124	1	CCB	QC Passed

Trace Metals by Method 6010B

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(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729026

Trace Metals by Method 6010B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG750261**

Sample Name	Collect Date	Prep Date	Analysis Date
L729026-01 5x	10/20/2014	10/27/2014	10/30/2014
L729026-02 5x	10/20/2014	10/27/2014	10/30/2014
L729026-03 5x	10/20/2014	10/27/2014	10/30/2014
L729026-05 5x	10/20/2014	10/27/2014	10/30/2014
L729026-06 5x	10/20/2014	10/27/2014	10/30/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG752044**
Analysis Date:	11/3/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/31/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG752044**

Sample Name	Collect Date	Prep Date	Analysis Date
L729026-01 5x	10/20/2014	11/01/2014	11/04/2014
L729026-02 5x	10/20/2014	11/01/2014	11/04/2014
L729026-03 5x	10/20/2014	11/01/2014	11/04/2014
L729026-05 5x	10/20/2014	11/01/2014	11/04/2014
L729026-06 5x	10/20/2014	11/01/2014	11/04/2014

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP12	Blank WG750261	Blank WG750261	15	10/30/2014	1:50 PM
ICP12	LCS WG750261	LCS WG750261	16	10/30/2014	1:54 PM
ICP12	LCSD WG750261	LCSD WG750261	17	10/30/2014	1:58 PM
ICP12	DUP WG750261	DUP WG750261	19	10/30/2014	2:07 PM
ICP12	PS WG750261	PS WG750261	20	10/30/2014	2:11 PM
ICP12	MS WG750261	MS WG750261	21	10/30/2014	2:15 PM
ICP12	MSD WG750261	MSD WG750261	22	10/30/2014	2:19 PM
ICP12	TU503-SB01-DS01	L729026-01	30	10/30/2014	2:57 PM
ICP12	TU503-SB01-NS01	L729026-02	31	10/30/2014	3:01 PM
ICP12	TU503-SB01-NS02	L729026-03	32	10/30/2014	3:05 PM
ICP12	TU503-SB05-NS01	L729026-05	33	10/30/2014	3:10 PM
ICP12	TU503-SB05-NS02	L729026-06	34	10/30/2014	3:14 PM

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG752044**
Analysis Date:	11/3/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/31/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP11	Blank WG752044	Blank WG752044	73	11/3/2014	4:42 PM
ICP11	LCS WG752044	LCS WG752044	74	11/3/2014	4:47 PM
ICP11	LCSD WG752044	LCSD WG752044	75	11/3/2014	4:52 PM
ICP11	DUP WG752044	DUP WG752044	77	11/3/2014	5:03 PM
ICP11	MS WG752044	MS WG752044	78	11/3/2014	5:08 PM
ICP11	MSD WG752044	MSD WG752044	79	11/3/2014	5:13 PM
ICP11	TU503-SB01-DS01	L729026-01	26	11/4/2014	9:59 AM
ICP11	TU503-SB01-NS01	L729026-02	27	11/4/2014	10:04 AM
ICP11	TU503-SB01-NS02	L729026-03	28	11/4/2014	10:09 AM
ICP11	TU503-SB05-NS01	L729026-05	29	11/4/2014	10:15 AM
ICP11	TU503-SB05-NS02	L729026-06	30	11/4/2014	10:20 AM

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum	7429-90-5	< 10.0	4.64	
Antimony	7440-36-0	< 2.00	< 0.750	
Arsenic	7440-38-2	< 2.00	< 0.650	
Barium	7440-39-3	< 0.500	< 0.170	
Beryllium	7440-41-7	< 0.200	< 0.0700	
Cadmium	7440-43-9	< 0.500	< 0.0700	
Chromium	7440-47-3	< 1.00	< 0.140	
Cobalt	7440-48-4	< 1.00	< 0.230	
Copper	7440-50-8	< 2.00	< 0.530	
Lead	7439-92-1	< 0.500	< 0.190	
Manganese	7439-96-5	< 1.00	< 0.120	
Nickel	7440-02-0	< 2.00	< 0.490	
Selenium	7782-49-2	< 2.00	< 0.740	
Silver	7440-22-4	< 1.00	< 0.280	
Vanadium	7440-62-2	< 2.00	< 0.240	
Zinc	7440-66-6	< 5.00	1.08	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG752044**
Analysis Date:	11/3/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/31/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Thallium	7440-28-0	< 2.00	< 0.650	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Thallium	1	158	157.18	99	81 - 119	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Thallium	1	158	157.19	99	81 - 119	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Thallium	1	158	157.18	99	157.19	99	81 - 119		0	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	10100	13459	133	50.6 - 150	
Antimony	1	113	98.037	87	0.88 - 223	
Arsenic	1	237	249.79	105	83.1 - 117	
Barium	1	252	260.59	103	84.1 - 116	
Beryllium	1	93.3	98.385	105	83.3 - 117	
Cadmium	1	191	202.44	106	83.2 - 117	
Chromium	1	128	131.41	103	81.3 - 118	
Cobalt	1	178	197.75	111	83.7 - 116	
Copper	1	123	125.74	102	83.7 - 116	
Lead	1	103	110.33	107	83.1 - 117	
Manganese	1	333	347.82	104	82.3 - 117	
Nickel	1	118	129.86	110	82 - 118	
Selenium	1	110	121.78	111	78.7 - 122	
Silver	1	47.3	49.816	105	66.2 - 134	
Vanadium	1	119	131.42	110	79.7 - 120	
Zinc	1	183	183.73	100	82 - 118	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	10100	13215	131	50.6 - 150	
Antimony	1	113	94.667	84	0.88 - 223	
Arsenic	1	237	238.49	101	83.1 - 117	
Barium	1	252	250.74	99	84.1 - 116	
Beryllium	1	93.3	94.965	102	83.3 - 117	
Cadmium	1	191	193.14	101	83.2 - 117	
Chromium	1	128	130.57	102	81.3 - 118	
Cobalt	1	178	188.83	106	83.7 - 116	
Copper	1	123	123.32	100	83.7 - 116	
Lead	1	103	105.99	103	83.1 - 117	
Manganese	1	333	346.43	104	82.3 - 117	
Nickel	1	118	124.62	106	82 - 118	
Selenium	1	110	116.87	106	78.7 - 122	
Silver	1	47.3	49.534	105	66.2 - 134	
Vanadium	1	119	130.54	110	79.7 - 120	
Zinc	1	183	175.94	96	82 - 118	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

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	10100	13459	133	13215	131	50.6 - 150		2	20	
Antimony	1	113	98.037	87	94.667	84	0.88 - 223		3	20	
Arsenic	1	237	249.79	105	238.49	101	83.1 - 117		5	20	
Barium	1	252	260.59	103	250.74	99	84.1 - 116		4	20	
Beryllium	1	93.3	98.385	105	94.965	102	83.3 - 117		4	20	
Cadmium	1	191	202.44	106	193.14	101	83.2 - 117		5	20	
Chromium	1	128	131.41	103	130.57	102	81.3 - 118		1	20	
Cobalt	1	178	197.75	111	188.83	106	83.7 - 116		5	20	
Copper	1	123	125.74	102	123.32	100	83.7 - 116		2	20	
Lead	1	103	110.33	107	105.99	103	83.1 - 117		4	20	
Manganese	1	333	347.82	104	346.43	104	82.3 - 117		0	20	
Nickel	1	118	129.86	110	124.62	106	82 - 118		4	20	
Selenium	1	110	121.78	111	116.87	106	78.7 - 122		4	20	
Silver	1	47.3	49.816	105	49.534	105	66.2 - 134		1	20	
Vanadium	1	119	131.42	110	130.54	110	79.7 - 120		1	20	
Zinc	1	183	183.73	100	175.94	96	82 - 118		4	20	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Serial Dilution

L729024-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum	25	503.48	564.88	12	10	O1
Antimony	25	<3.75	<18.75		10	
Arsenic	25	<3.25	<16.25		10	
Barium	25	11.037	10.364	6	10	
Beryllium	25	<0.35	<1.75		10	
Cadmium	25	<0.35	<1.75		10	
Chromium	25	<0.7	<3.5		10	
Cobalt	25	<1.15	<5.75		10	
Copper	25	<2.65	<13.25		10	
Lead	25	<0.95	<4.75		10	
Manganese	25	10.099	9.7698	3	10	
Nickel	25	<2.45	<12.25		10	
Selenium	25	<3.7	<18.5		10	
Silver	25	<1.4	<7		10	
Vanadium	25	1.4360	<6	510	10	
Zinc	25	4.0784	<14.75	18	10	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Matrix Spike / Matrix Spike Duplicate

L729024-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum	5	28.3	713.15	831.32	83	499.51	0	75 - 125	V	50	20	J3
Antimony	5	28.3	<3.75	152.28	108	159.77	113	75 - 125		5	20	
Arsenic	5	28.3	<3.25	157.55	111	163.11	115	75 - 125		3	20	
Barium	5	28.3	15.633	161.08	103	161.91	103	75 - 125		1	20	
Beryllium	5	28.3	<0.35	143.95	102	139.75	99	75 - 125		3	20	
Cadmium	5	28.3	<0.35	156.08	110	163.40	115	75 - 125		5	20	
Chromium	5	28.3	<0.7	144.61	102	145.00	102	75 - 125		0	20	
Cobalt	5	28.3	<1.15	151.77	107	158.29	111	75 - 125		4	20	
Copper	5	28.3	<2.65	147.72	104	144.90	102	75 - 125		2	20	
Lead	5	28.3	<0.95	145.70	103	152.85	108	75 - 125		5	20	
Manganese	5	28.3	14.304	158.78	102	154.50	99	75 - 125		3	20	
Nickel	5	28.3	<2.45	149.27	104	156.29	109	75 - 125		5	20	
Selenium	5	28.3	<3.7	159.90	113	167.00	118	75 - 125		4	20	
Silver	5	28.3	<1.4	151.61	107	150.78	106	75 - 125		1	20	
Vanadium	5	28.3	2.0340	149.00	104	147.51	103	75 - 125		1	20	
Zinc	5	28.3	5.7768	146.96	100	153.48	104	75 - 125		4	20	

Parameters in bold text are reported in this SDG

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(800) 767-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750261**
Analysis Date:	10/30/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	10/23/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Post Digest Spike

L729024-01

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Aluminum	5	99	503.48	1004.9	101	75-125	
Antimony	5	99	<3.75	520.55	105	75-125	
Arsenic	5	99	<3.25	528.83	107	75-125	
Barium	5	99	11.037	508.01	100	75-125	
Beryllium	5	99	<0.35	494.24	100	75-125	
Cadmium	5	99	<0.35	523.96	106	75-125	
Chromium	5	99	<0.7	495.98	100	75-125	
Cobalt	5	99	<1.15	514.69	104	75-125	
Copper	5	99	<2.65	505.88	102	75-125	
Lead	5	99	<0.95	498.24	101	75-125	
Manganese	5	99	10.099	504.62	100	75-125	
Nickel	5	99	<2.45	504.05	102	75-125	
Selenium	5	99	<3.7	543.90	110	75-125	
Silver	5	99	<1.4	483.12	98	75-125	
Vanadium	5	99	1.4360	515.51	104	75-125	
Zinc	5	99	4.0784	488.94	98	75-125	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG752044**
Analysis Date:	11/3/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/31/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Serial Dilution

L729024-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Thallium	25	<3.25	<16.25		10	

Matrix Spike / Matrix Spike Duplicate

L729024-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Thallium	5	28.3	3.6295	137.91	95	132.44	91	75 - 125		4	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type: ICV
Analysis Date: 10/30/2014 1:18 PM
Analysis Time: 1318
Data File: 103014ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.104	0.1	104 %	90-110
Aluminum	10.1	10	101 %	90-110
Arsenic	0.996	1	100 %	90-110
Barium	1.02	1	102 %	90-110
Beryllium	1.00	1	100 %	90-110
Cadmium	1.01	1	101 %	90-110
Cobalt	1.00	1	100 %	90-110
Chromium	1.02	1	102 %	90-110
Copper	0.991	1	99 %	90-110
Manganese	1.01	1	101 %	90-110
Nickel	0.999	1	100 %	90-110
Lead	0.997	1	100 %	90-110
Antimony	1.06	1	106 %	90-110
Selenium	1.02	1	102 %	90-110
Vanadium	0.996	1	100 %	90-110
Zinc	1.00	1	100 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type: ICVLL
Analysis Date: 10/30/2014 1:28 PM
Analysis Time: 1328
Data File: 103014ICP12A

Analyte	Conc.
Silver	0.0102
Aluminum	0.0896
Arsenic	0.0207
Barium	0.0053
Beryllium	0.0020
Cadmium	0.0053
Cobalt	0.0099
Chromium	0.0102
Copper	0.0226
Manganese	0.0105
Nickel	0.0219
Lead	0.0057
Antimony	0.0199
Selenium	0.0188
Vanadium	0.0080
Zinc	0.0342

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 10/30/2014 2:35 PM
Analysis Time: 1435
Data File: 103014ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.984	1	98 %	90-110
Aluminum	9.27	10	93 %	90-110
Arsenic	1.96	2	98 %	90-110
Barium	0.487	0.5	97 %	90-110
Beryllium	0.185	0.2	92 %	90-110
Cadmium	0.525	0.5	105 %	90-110
Cobalt	0.991	1	99 %	90-110
Chromium	0.984	1	98 %	90-110
Copper	1.87	2	93 %	90-110
Manganese	1.00	1	100 %	90-110
Nickel	2.00	2	100 %	90-110
Lead	0.490	0.5	98 %	90-110
Antimony	1.95	2	98 %	90-110
Selenium	2.03	2	101 %	90-110
Vanadium	0.943	1	94 %	90-110
Zinc	2.90	3	97 %	90-110

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 10/30/2014 3:36 PM
Analysis Time: 1536
Data File: 103014ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.986	1	99 %	90-110
Aluminum	9.30	10	93 %	90-110
Arsenic	1.94	2	97 %	90-110
Barium	0.482	0.5	96 %	90-110
Beryllium	0.185	0.2	92 %	90-110
Cadmium	0.520	0.5	104 %	90-110
Cobalt	0.989	1	99 %	90-110
Chromium	0.993	1	99 %	90-110
Copper	1.87	2	93 %	90-110
Manganese	1.02	1	102 %	90-110
Nickel	2.01	2	100 %	90-110
Lead	0.493	0.5	99 %	90-110
Antimony	1.92	2	96 %	90-110
Selenium	2.01	2	100 %	90-110
Vanadium	0.952	1	95 %	90-110
Zinc	2.92	3	97 %	90-110

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type: CCVLL
Analysis Date: 10/30/2014 4:24 PM
Analysis Time: 1624
Data File: 103014ICP12A

Analyte	Conc.
Silver	0.0102
Aluminum	0.112
Arsenic	0.0197
Barium	0.0054
Beryllium	0.0020
Cadmium	0.0054
Cobalt	0.0100
Chromium	0.0107
Copper	0.0215
Manganese	0.0111
Nickel	0.0214
Lead	0.0054
Antimony	0.0211
Selenium	0.0174
Vanadium	0.0101
Zinc	0.0356

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type: ICV
Analysis Date: 11/4/2014 8:00 AM
Analysis Time: 0800
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.03	1	103 %	90-110

Standard Type: ICVLL
Analysis Date: 11/4/2014 8:11 AM
Analysis Time: 0811
Data File: 110414ICP11

Analyte	Conc.
Thallium	0.0204

Standard Type: CCV
Analysis Date: 11/4/2014 9:49 AM
Analysis Time: 0949
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.95	2	97 %	90-110

Standard Type: CCV
Analysis Date: 11/4/2014 10:52 AM
Analysis Time: 1052
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.95	2	97 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type: CCVLL
Analysis Date: 11/4/2014 11:03 AM
Analysis Time: 1103
Data File: 110414ICP11

Analyte	Conc.
Thallium	0.0216

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type: ICV
Analysis Date: 11/3/2014 9:45 AM
Analysis Time: 0945
Data File: 110314ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.02	1	102 %	90-110

Standard Type: ICVLL
Analysis Date: 11/3/2014 9:50 AM
Analysis Time: 0950
Data File: 110314ICP11

Analyte	Conc.
Thallium	0.0225

Standard Type: CCVLL
Analysis Date: 11/3/2014 1:16 PM
Analysis Time: 1316
Data File: 110314ICP11

Analyte	Conc.
Thallium	0.0186

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type: CCV
Analysis Date: 11/3/2014 3:52 PM
Analysis Time: 1552
Data File: 110314ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.96	2	98 %	90-110

Standard Type: CCVLL
Analysis Date: 11/3/2014 4:02 PM
Analysis Time: 1602
Data File: 110314ICP11

Analyte	Conc.
Thallium	0.0217

Standard Type: CCV
Analysis Date: 11/3/2014 5:34 PM
Analysis Time: 1734
Data File: 110314ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.95	2	97 %	90-110

Standard Type: CCVLL
Analysis Date: 11/3/2014 9:16 PM
Analysis Time: 2116
Data File: 110314ICP11

Analyte	Conc.
Thallium	0.0212

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type: ICB
Analysis Date: 10/30/2014 1:24 PM
Analysis Time: 1324
Data File: 103014ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	103014ICP12A
Aluminum	3.5	< 3.5	103014ICP12A
Arsenic	0.65	< 0.65	103014ICP12A
Barium	0.17	< 0.17	103014ICP12A
Beryllium	0.07	< 0.07	103014ICP12A
Cadmium	0.07	< 0.07	103014ICP12A
Cobalt	0.23	< 0.23	103014ICP12A
Chromium	0.14	< 0.14	103014ICP12A
Copper	0.53	< 0.53	103014ICP12A
Manganese	0.12	< 0.12	103014ICP12A
Nickel	0.49	< 0.49	103014ICP12A
Lead	0.19	< 0.19	103014ICP12A
Antimony	0.75	< 0.75	103014ICP12A
Selenium	0.74	< 0.74	103014ICP12A
Vanadium	0.24	< 0.24	103014ICP12A
Zinc	0.59	< 0.59	103014ICP12A

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 10/30/2014 2:40 PM
Analysis Time: 1440
Data File: 103014ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	103014ICP12A
Aluminum	3.5	< 3.5	103014ICP12A
Arsenic	0.65	< 0.65	103014ICP12A
Barium	0.17	< 0.17	103014ICP12A
Beryllium	0.07	< 0.07	103014ICP12A
Cadmium	0.07	< 0.07	103014ICP12A
Cobalt	0.23	< 0.23	103014ICP12A
Chromium	0.14	< 0.14	103014ICP12A
Copper	0.53	< 0.53	103014ICP12A
Manganese	0.12	< 0.12	103014ICP12A
Nickel	0.49	< 0.49	103014ICP12A
Lead	0.19	< 0.19	103014ICP12A
Antimony	0.75	< 0.75	103014ICP12A
Selenium	0.74	< 0.74	103014ICP12A
Vanadium	0.24	< 0.24	103014ICP12A
Zinc	0.59	< 0.59	103014ICP12A

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 10/30/2014 3:40 PM
Analysis Time: 1540
Data File: 103014ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	103014ICP12A
Aluminum	3.5	< 3.5	103014ICP12A
Arsenic	0.65	< 0.65	103014ICP12A
Barium	0.17	< 0.17	103014ICP12A
Beryllium	0.07	< 0.07	103014ICP12A
Cadmium	0.07	< 0.07	103014ICP12A
Cobalt	0.23	< 0.23	103014ICP12A
Chromium	0.14	< 0.14	103014ICP12A
Copper	0.53	< 0.53	103014ICP12A
Manganese	0.12	< 0.12	103014ICP12A
Nickel	0.49	< 0.49	103014ICP12A
Lead	0.19	< 0.19	103014ICP12A
Antimony	0.75	< 0.75	103014ICP12A
Selenium	0.74	< 0.74	103014ICP12A
Vanadium	0.24	< 0.24	103014ICP12A
Zinc	0.59	< 0.59	103014ICP12A

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type: ICB
Analysis Date: 11/4/2014 8:16 AM
Analysis Time: 0816
Data File: 110414ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110414ICP11

Standard Type: CCB
Analysis Date: 11/4/2014 9:54 AM
Analysis Time: 0954
Data File: 110414ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110414ICP11

Standard Type: CCB
Analysis Date: 11/4/2014 10:56 AM
Analysis Time: 1056
Data File: 110414ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110414ICP11

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type: ICB
Analysis Date: 11/3/2014 9:55 AM
Analysis Time: 0955
Data File: 110314ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110314ICP11

Standard Type: CCB
Analysis Date: 11/3/2014 3:57 PM
Analysis Time: 1557
Data File: 110314ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110314ICP11

Standard Type: CCB
Analysis Date: 11/3/2014 5:39 PM
Analysis Time: 1739
Data File: 110314ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110314ICP11

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 10/30/2014 1:33 PM
Analysis Time: 1333
Data File: 103014ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0002	0		80 - 120
ALUMINUM	494	500	99 %	80 - 120
ARSENIC	-0.0029	0		80 - 120
BORON	-0.0028	0		80 - 120
BARIUM	0.0018	0		80 - 120
BERYLLIUM	0.0001	0		80 - 120
CALCIUM	498	500	100 %	80 - 120
CADMIUM	-0.0028	0		80 - 120
COBALT	0.0011	0		80 - 120
CHROMIUM	0.0006	0		80 - 120
COPPER	0.0012	0		80 - 120
IRON	199	200	99 %	80 - 120
POTASSIUM	0.0076	0		80 - 120
LITHIUM	0.0033	0		80 - 120
MAGNESIUM	510	500	102 %	80 - 120
MANGANESE	-0.0059	0		80 - 120
MOLYBDENUM	-0.0003	0		80 - 120
SODIUM	0.0280	0		80 - 120
NICKEL	-0.0165	0		80 - 120
LEAD	-0.0335	0		80 - 120
SULFUR	-0.0135	0		80 - 120
ANTIMONY	-0.0009	0		80 - 120
SELENIUM	0.0074	0		80 - 120
SILICON	-0.0011	0		80 - 120
TIN	0.0010	0		80 - 120
STRONTIUM	0.0075	0		80 - 120
TITANIUM	-0.0039	0		80 - 120
THALLIUM	0.0041	0		80 - 120
VANADIUM	0.0014	0		80 - 120
ZINC	0.0049	0		80 - 120

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 10/30/2014 1:37 PM
Analysis Time: 1337
Data File: 103014ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.07	1.00	107 %	80 - 120
ALUMINUM	467	500	93 %	80 - 120
ARSENIC	0.492	0.500	98 %	80 - 120
BORON	0.896	1.00	90 %	80 - 120
BARIUM	0.454	0.500	91 %	80 - 120
BERYLLIUM	0.448	0.500	90 %	80 - 120
CALCIUM	470	500	94 %	80 - 120
CADMIUM	1.00	1.00	100 %	80 - 120
COBALT	0.486	0.500	97 %	80 - 120
CHROMIUM	0.451	0.500	90 %	80 - 120
COPPER	0.462	0.500	92 %	80 - 120
IRON	188	200	94 %	80 - 120
POTASSIUM	-0.0336	0		80 - 120
LITHIUM	0.0036	0		80 - 120
MAGNESIUM	482	500	96 %	80 - 120
MANGANESE	0.444	0.500	89 %	80 - 120
MOLYBDENUM	0.454	0.500	91 %	80 - 120
SODIUM	0.0246	0		80 - 120
NICKEL	0.945	1.00	94 %	80 - 120
LEAD	0.928	1.00	93 %	80 - 120
SULFUR	-0.0144	0		80 - 120
ANTIMONY	0.496	0.500	99 %	80 - 120
SELENIUM	0.512	0.500	102 %	80 - 120
SILICON	0.963	1.00	96 %	80 - 120
TIN	0.479	0.500	96 %	80 - 120
STRONTIUM	0.0072	0		80 - 120
TITANIUM	0.444	0.500	89 %	80 - 120
THALLIUM	0.466	0.500	93 %	80 - 120
VANADIUM	0.439	0.500	88 %	80 - 120
ZINC	0.866	1.00	87 %	80 - 120

*** - calibrated by linear regression*

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(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 10/30/2014 11:30 PM
Analysis Time: 2330
Data File: 103014ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0001	0		80 - 120
ALUMINUM	457	500	91 %	80 - 120
ARSENIC	-0.0022	0		80 - 120
BORON	-0.0084	0		80 - 120
BARIUM	0.0019	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	494	500	99 %	80 - 120
CADMIUM	-0.0031	0		80 - 120
COBALT	0.0009	0		80 - 120
CHROMIUM	0.0006	0		80 - 120
COPPER	0.0025	0		80 - 120
IRON	206	200	103 %	80 - 120
POTASSIUM	0.0102	0		80 - 120
LITHIUM	0.0043	0		80 - 120
MAGNESIUM	535	500	107 %	80 - 120
MANGANESE	-0.0060	0		80 - 120
MOLYBDENUM	-0.0003	0		80 - 120
SODIUM	0.0142	0		80 - 120
NICKEL	-0.0161	0		80 - 120
LEAD	-0.0332	0		80 - 120
SULFUR	0.0044	0		80 - 120
ANTIMONY	-0.0055	0		80 - 120
SELENIUM	0.0027	0		80 - 120
SILICON	0.0027	0		80 - 120
TIN	0.0017	0		80 - 120
STRONTIUM	0.0075	0		80 - 120
TITANIUM	-0.0079	0		80 - 120
THALLIUM	0.0050	0		80 - 120
VANADIUM	0.0006	0		80 - 120
ZINC	0.0052	0		80 - 120

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 10/30/2014 11:34 PM
Analysis Time: 2334
Data File: 103014ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.16	1.00	116 %	80 - 120
ALUMINUM	440	500	88 %	80 - 120
ARSENIC	0.480	0.500	96 %	80 - 120
BORON	0.958	1.00	96 %	80 - 120
BARIUM	0.441	0.500	88 %	80 - 120
BERYLLIUM	0.418	0.500	84 %	80 - 120
CALCIUM	480	500	96 %	80 - 120
CADMIUM	1.02	1.00	102 %	80 - 120
COBALT	0.495	0.500	99 %	80 - 120
CHROMIUM	0.497	0.500	99 %	80 - 120
COPPER	0.460	0.500	92 %	80 - 120
IRON	199	200	100 %	80 - 120
POTASSIUM	0.0151	0		80 - 120
LITHIUM	0.0041	0		80 - 120
MAGNESIUM	521	500	104 %	80 - 120
MANGANESE	0.510	0.500	102 %	80 - 120
MOLYBDENUM	0.454	0.500	91 %	80 - 120
SODIUM	0.0166	0		80 - 120
NICKEL	1.01	1.00	101 %	80 - 120
LEAD	0.974	1.00	97 %	80 - 120
SULFUR	-0.0059	0		80 - 120
ANTIMONY	0.454	0.500	91 %	80 - 120
SELENIUM	0.494	0.500	99 %	80 - 120
SILICON	1.02	1.00	102 %	80 - 120
TIN	0.505	0.500	101 %	80 - 120
STRONTIUM	0.0071	0		80 - 120
TITANIUM	0.455	0.500	91 %	80 - 120
THALLIUM	0.457	0.500	91 %	80 - 120
VANADIUM	0.464	0.500	93 %	80 - 120
ZINC	0.911	1.00	91 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type : ICSA
Analysis Date: 11/4/2014 8:21 AM
Analysis Time: 0821
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0068	0		80 - 120
ALUMINUM	507	500	101 %	80 - 120
ARSENIC	-0.0124	0		80 - 120
BORON	0.245	0		80 - 120
BARIUM	-0.0008	0		80 - 120
BERYLLIUM	-0.0006	0		80 - 120
CALCIUM	465	500	93 %	80 - 120
CADMIUM	-0.0016	0		80 - 120
COBALT	-0.0005	0		80 - 120
CHROMIUM	-0.0016	0		80 - 120
COPPER	-0.0132	0		80 - 120
IRON	189	200	94 %	80 - 120
POTASSIUM	0.172	0		80 - 120
LITHIUM	-0.0030	0		80 - 120
MAGNESIUM	537	500	107 %	80 - 120
MANGANESE	-0.0189	0		80 - 120
MOLYBDENUM	0.0022	0		80 - 120
SODIUM	-0.0407	0		80 - 120
NICKEL	0.0048	0		80 - 120
LEAD	-0.0053	0		80 - 120
ANTIMONY	0.0007	0		80 - 120
SELENIUM	0.0446	0		80 - 120
SILICON	-0.0066	0		80 - 120
TIN	0.0098	0		80 - 120
STRONTIUM	0.0003	0		80 - 120
TITANIUM	-0.0211	0		80 - 120
THALLIUM	-0.0024	0		80 - 120
VANADIUM	-0.0016	0		80 - 120
ZINC	-0.0170	0		80 - 120

*** - calibrated by linear regression*

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(800) 767-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type : ICSAB
Analysis Date: 11/4/2014 8:27 AM
Analysis Time: 0827
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.02	1.00	102 %	80 - 120
ALUMINUM	508	500	102 %	80 - 120
ARSENIC	0.482	0.500	96 %	80 - 120
BORON	1.22	1.00	122 %	80 - 120
BARIUM	0.514	0.500	103 %	80 - 120
BERYLLIUM	0.493	0.500	99 %	80 - 120
CALCIUM	473	500	95 %	80 - 120
CADMIUM	0.927	1.00	93 %	80 - 120
COBALT	0.478	0.500	96 %	80 - 120
CHROMIUM	0.494	0.500	99 %	80 - 120
COPPER	0.477	0.500	95 %	80 - 120
IRON	190	200	95 %	80 - 120
POTASSIUM	0.153	0		80 - 120
LITHIUM	-0.0041	0		80 - 120
MAGNESIUM	541	500	108 %	80 - 120
MANGANESE	0.455	0.500	91 %	80 - 120
MOLYBDENUM	0.483	0.500	97 %	80 - 120
SODIUM	-0.0383	0		80 - 120
NICKEL	1.04	1.00	104 %	80 - 120
LEAD	0.951	1.00	95 %	80 - 120
ANTIMONY	0.500	0.500	100 %	80 - 120
SELENIUM	0.523	0.500	105 %	80 - 120
SILICON	1.00	1.00	100 %	80 - 120
TIN	0.475	0.500	95 %	80 - 120
STRONTIUM	0.0003	0		80 - 120
TITANIUM	0.467	0.500	93 %	80 - 120
THALLIUM	0.466	0.500	93 %	80 - 120
VANADIUM	0.476	0.500	95 %	80 - 120
ZINC	0.928	1.00	93 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type : ICSA
Analysis Date: 11/5/2014 1:10 AM
Analysis Time: 0110
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0044	0		80 - 120
ALUMINUM	476	500	95 %	80 - 120
ARSENIC	-0.0079	0		80 - 120
BORON	0.230	0		80 - 120
BARIUM	-0.0005	0		80 - 120
BERYLLIUM	-0.0006	0		80 - 120
CALCIUM	467	500	93 %	80 - 120
CADMIUM	-0.0029	0		80 - 120
COBALT	-0.0008	0		80 - 120
CHROMIUM	-0.0016	0		80 - 120
COPPER	-0.0153	0		80 - 120
IRON	188	200	94 %	80 - 120
POTASSIUM	0.274	0		80 - 120
LITHIUM	-0.0024	0		80 - 120
MAGNESIUM	537	500	107 %	80 - 120
MANGANESE	-0.0186	0		80 - 120
MOLYBDENUM	0.0012	0		80 - 120
SODIUM	-0.0715	0		80 - 120
NICKEL	0.0047	0		80 - 120
LEAD	-0.0158	0		80 - 120
ANTIMONY	0.0036	0		80 - 120
SELENIUM	0.0431	0		80 - 120
SILICON	-0.0223	0		80 - 120
TIN	0.0112	0		80 - 120
STRONTIUM	0.0007	0		80 - 120
TITANIUM	-0.0211	0		80 - 120
THALLIUM	0.0013	0		80 - 120
VANADIUM	-0.0028	0		80 - 120
ZINC	-0.0148	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type : ICSAB
Analysis Date: 11/5/2014 1:16 AM
Analysis Time: 0116
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.01	1.00	101 %	80 - 120
ALUMINUM	484	500	97 %	80 - 120
ARSENIC	0.467	0.500	93 %	80 - 120
BORON	1.12	1.00	112 %	80 - 120
BARIUM	0.505	0.500	101 %	80 - 120
BERYLLIUM	0.487	0.500	97 %	80 - 120
CALCIUM	463	500	93 %	80 - 120
CADMIUM	0.922	1.00	92 %	80 - 120
COBALT	0.469	0.500	94 %	80 - 120
CHROMIUM	0.484	0.500	97 %	80 - 120
COPPER	0.469	0.500	94 %	80 - 120
IRON	189	200	94 %	80 - 120
POTASSIUM	0.104	0		80 - 120
LITHIUM	-0.0035	0		80 - 120
MAGNESIUM	538	500	108 %	80 - 120
MANGANESE	0.451	0.500	90 %	80 - 120
MOLYBDENUM	0.474	0.500	95 %	80 - 120
SODIUM	-0.0706	0		80 - 120
NICKEL	1.02	1.00	102 %	80 - 120
LEAD	0.931	1.00	93 %	80 - 120
ANTIMONY	0.488	0.500	98 %	80 - 120
SELENIUM	0.513	0.500	103 %	80 - 120
SILICON	0.938	1.00	94 %	80 - 120
TIN	0.465	0.500	93 %	80 - 120
STRONTIUM	0.0008	0		80 - 120
TITANIUM	0.460	0.500	92 %	80 - 120
THALLIUM	0.454	0.500	91 %	80 - 120
VANADIUM	0.471	0.500	94 %	80 - 120
ZINC	0.918	1.00	92 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type : ICSA
Analysis Date: 11/3/2014 10:00 AM
Analysis Time: 1000
Data File: 110314ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0065	0		80 - 120
ALUMINUM	499	500	100 %	80 - 120
ARSENIC	0.0022	0		80 - 120
BORON	0.272	0		80 - 120
BARIUM	-0.0007	0		80 - 120
BERYLLIUM	-0.0006	0		80 - 120
CALCIUM	465	500	93 %	80 - 120
CADMIUM	-0.0016	0		80 - 120
COBALT	-0.0008	0		80 - 120
CHROMIUM	-0.0019	0		80 - 120
COPPER	-0.0137	0		80 - 120
IRON	188	200	94 %	80 - 120
POTASSIUM	0.181	0		80 - 120
LITHIUM	-0.0019	0		80 - 120
MAGNESIUM	537	500	107 %	80 - 120
MANGANESE	-0.0190	0		80 - 120
MOLYBDENUM	0.0019	0		80 - 120
SODIUM	-0.0263	0		80 - 120
NICKEL	-0.0042	0		80 - 120
LEAD	-0.0037	0		80 - 120
ANTIMONY	0.0073	0		80 - 120
SELENIUM	0.0407	0		80 - 120
SILICON	-0.0174	0		80 - 120
TIN	0.0125	0		80 - 120
STRONTIUM	0.0001	0		80 - 120
TITANIUM	-0.0213	0		80 - 120
THALLIUM	-0.0006	0		80 - 120
VANADIUM	-0.0026	0		80 - 120
ZINC	-0.0171	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type : ICSAB
Analysis Date: 11/3/2014 10:06 AM
Analysis Time: 1006
Data File: 110314ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.02	1.00	102 %	80 - 120
ALUMINUM	498	500	100 %	80 - 120
ARSENIC	0.479	0.500	96 %	80 - 120
BORON	1.24	1.00	124 %	80 - 120
BARIUM	0.500	0.500	100 %	80 - 120
BERYLLIUM	0.494	0.500	99 %	80 - 120
CALCIUM	469	500	94 %	80 - 120
CADMIUM	0.920	1.00	92 %	80 - 120
COBALT	0.469	0.500	94 %	80 - 120
CHROMIUM	0.485	0.500	97 %	80 - 120
COPPER	0.474	0.500	95 %	80 - 120
IRON	189	200	95 %	80 - 120
POTASSIUM	0.170	0		80 - 120
LITHIUM	-0.0018	0		80 - 120
MAGNESIUM	537	500	107 %	80 - 120
MANGANESE	0.454	0.500	91 %	80 - 120
MOLYBDENUM	0.479	0.500	96 %	80 - 120
SODIUM	-0.0424	0		80 - 120
NICKEL	1.01	1.00	101 %	80 - 120
LEAD	0.931	1.00	93 %	80 - 120
ANTIMONY	0.503	0.500	101 %	80 - 120
SELENIUM	0.517	0.500	103 %	80 - 120
SILICON	1.00	1.00	100 %	80 - 120
TIN	0.468	0.500	94 %	80 - 120
STRONTIUM	0.0001	0		80 - 120
TITANIUM	0.467	0.500	93 %	80 - 120
THALLIUM	0.455	0.500	91 %	80 - 120
VANADIUM	0.472	0.500	94 %	80 - 120
ZINC	0.927	1.00	93 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type : ICSA
Analysis Date: 11/3/2014 8:42 PM
Analysis Time: 2042
Data File: 110314ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0033	0		80 - 120
ALUMINUM	489	500	98 %	80 - 120
ARSENIC	-0.0090	0		80 - 120
BORON	0.273	0		80 - 120
BARIUM	-0.0007	0		80 - 120
BERYLLIUM	-0.0007	0		80 - 120
CALCIUM	468	500	94 %	80 - 120
CADMIUM	-0.0029	0		80 - 120
COBALT	0.0000	0		80 - 120
CHROMIUM	-0.0020	0		80 - 120
COPPER	-0.0153	0		80 - 120
IRON	187	200	93 %	80 - 120
POTASSIUM	0.0034	0		80 - 120
LITHIUM	-0.0039	0		80 - 120
MAGNESIUM	537	500	107 %	80 - 120
MANGANESE	-0.0190	0		80 - 120
MOLYBDENUM	0.0007	0		80 - 120
SODIUM	-0.0637	0		80 - 120
NICKEL	0.0022	0		80 - 120
LEAD	-0.0173	0		80 - 120
ANTIMONY	-0.0032	0		80 - 120
SELENIUM	0.0255	0		80 - 120
SILICON	-0.0470	0		80 - 120
TIN	0.0151	0		80 - 120
STRONTIUM	0.0009	0		80 - 120
TITANIUM	-0.0214	0		80 - 120
THALLIUM	0.0024	0		80 - 120
VANADIUM	-0.0046	0		80 - 120
ZINC	-0.0147	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: ICP11

Standard Type : ICSAB
Analysis Date: 11/3/2014 8:48 PM
Analysis Time: 2048
Data File: 110314ICP11

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.02	1.00	102 %	80 - 120
ALUMINUM	502	500	100 %	80 - 120
ARSENIC	0.502	0.500	100 %	80 - 120
BORON	1.20	1.00	120 %	80 - 120
BARIUM	0.510	0.500	102 %	80 - 120
BERYLLIUM	0.495	0.500	99 %	80 - 120
CALCIUM	478	500	96 %	80 - 120
CADMIUM	0.941	1.00	94 %	80 - 120
COBALT	0.480	0.500	96 %	80 - 120
CHROMIUM	0.488	0.500	98 %	80 - 120
COPPER	0.469	0.500	94 %	80 - 120
IRON	191	200	95 %	80 - 120
POTASSIUM	0.0296	0		80 - 120
LITHIUM	-0.0013	0		80 - 120
MAGNESIUM	547	500	109 %	80 - 120
MANGANESE	0.456	0.500	91 %	80 - 120
MOLYBDENUM	0.485	0.500	97 %	80 - 120
SODIUM	-0.0819	0		80 - 120
NICKEL	1.03	1.00	103 %	80 - 120
LEAD	0.952	1.00	95 %	80 - 120
ANTIMONY	0.504	0.500	101 %	80 - 120
SELENIUM	0.529	0.500	106 %	80 - 120
SILICON	0.971	1.00	97 %	80 - 120
TIN	0.484	0.500	97 %	80 - 120
STRONTIUM	0.0004	0		80 - 120
TITANIUM	0.463	0.500	93 %	80 - 120
THALLIUM	0.468	0.500	94 %	80 - 120
VANADIUM	0.472	0.500	94 %	80 - 120
ZINC	0.936	1.00	94 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP12 Method: ICP-AES Run Number: 103014ICP12A

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	1244	X	X	X	X	X	X	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	1248	X	X	X	X	X	X	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	1252		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	1257		X	X	X	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	1301			X	X	X	X		X	X	X	X	X		X		X	X	X			X		X	X	X		X	X	X	X
STD4 14J27630	1	1305	X			X				X				X			X				X				X		X					
STD5 14J08650	1	1310	X							X				X			X				X				X		X					
STD6 14I24985	1	1314	X							X				X			X				X				X		X					
ICV	1	1318	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
ICB	1	1324	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
ICVLL	1	1328	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
ICSA	1	1333	X	X	X	X	X	X	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	1337	X	X	X	X	X	X	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 WG750261	1	1350	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
LCS WG750261	1	1354	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
LCSD WG750261	1	1358	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729024-01SD WG750261	25	1407	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729024-01PS WG750261	5	1411	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729024-01MS WG750261	5	1415	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729024-01MSD WG750261	5	1419	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCV	1	1435	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCB	1	1440	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729026-01 WG750261	5	1457	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729026-02 WG750261	5	1501	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729026-03 WG750261	5	1505	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729026-05 WG750261	5	1510	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729026-06 WG750261	5	1514	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCV	1	1536	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCB	1	1540	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCVLL	1	1624	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
ICSA	1	2330	X	X	X	X	X	X	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	2334	X	X	X	X	X	X	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: L729026
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP11 Method: ICP-AES Run Number: 110414ICP11

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	0734	X	X	X	X	X	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 14J27638	1	0739	X	X	X	X	X	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 14J27638	1	0744	X	X	X	X	X	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 14J27638	1	0749	X	X	X	X	X	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 14J27638	1	0754	X	X	X	X	X	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	0800																										X				
ICVLL	1	0811																										X				
ICB	1	0816																										X				
ICSA	1	0821	X	X	X	X	X	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	0827	X	X	X	X	X	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	0949																										X				
CCB	1	0954																										X				
L729026-01 WG752044	5	0959																										X				
L729026-02 WG752044	5	1004																										X				
L729026-03 WG752044	5	1009																										X				
L729026-05 WG752044	5	1015																										X				
L729026-06 WG752044	5	1020																										X				
CCV	1	1052																										X				
CCB	1	1056																										X				
CCVLL	1	1103																										X				
CCVLL	1	1359																										X				
CCVLL	1	2332																										X				
ICSA	1	0110	X	X	X	X	X	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	0116	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
CCVLL	1	0144																										X				

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Mt. Juliet, TN 37122
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP11 Method: ICP-AES Run Number: 110314ICP11

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	0919	X	X	X	X	X	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 14J27638	1	0924	X	X	X	X	X	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 14J27638	1	0929	X	X	X	X	X	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 14J27638	1	0934	X	X	X	X	X	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 14J27638	1	0939	X	X	X	X	X	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	0945																										X				
ICVLL	1	0950																										X				
ICB	1	0955																										X				
ICSA	1	1000	X	X	X	X	X	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	1006	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
CCVLL	1	1316																										X				
CCVLL	1	1448																										X				
CCV	1	1552																										X				
CCB	1	1557																										X				
CCVLL	1	1602																										X				
BLANK WG752044	1	1642																										X				
LCS WG752044	1	1647																										X				
LCSD WG752044	1	1652																										X				
L729024-01SD WG752044	25	1703																										X				
L729024-01MS WG752044	5	1708																										X				
L729024-01MSD WG752044	5	1713																										X				
CCV	1	1734																										X				
CCB	1	1739																										X				
ICSA	1	2042	X	X	X	X	X	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	2048	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
CCVLL	1	2116																										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: 10/30/14 13:28 Standard ID: 14G16199
Sequence: 11

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	11451.16	99.56882	99.56882	0.1998848	100	60	140	11500.75	
N	INDIUM	%	3805.381	99.02465	99.02465	0.09815231	99	60	140	3842.862	
N	YTTRIUM	%	6340.506	98.85390	98.85390	3.952035	99	60	140	6414.017	
N	YTTRIUM	%	170149.8	98.56508	98.56508	0.3213044	99	60	140	172626.9	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	ppm	0.08955953	0.08955953	9.877178	90	50	150	0.10	0.9999974	
Y	ANTIMONY	ppm	0.01992608	0.01992608	3.421267	100	50	150	0.02	0.9999920	
Y	ARSENIC	ppm	0.02066694	0.02066694	5.084500	103	50	150	0.02	0.9998579	
Y	BARIUM	ppm	0.005282677	0.005282677	0.5949415	106	50	150	0.0050	0.9999911	
Y	BERYLLIUM	ppm	0.002026816	0.002026816	5.544233	101	50	150	0.0020	0.9996309	
Y	BORON	ppm	0.1932678	0.1932678	4.517915	97	50	150	0.20	0.9995218	
Y	CADMIUM	ppm	0.005292397	0.005292397	0.5249409	106	50	150	0.0050	0.9999868	
Y	CALCIUM	ppm	0.5279152	0.5279152	5.038041	106	50	150	0.50	0.9996942	
Y	CHROMIUM	ppm	0.01017902	0.01017902	3.217982	102	50	150	0.01	0.9998925	
Y	COBALT	ppm	0.009935093	0.009935093	0.8635119	99	50	150	0.01	0.9999494	
Y	COPPER	ppm	0.02256072	0.02256072	6.032575	113	50	150	0.02	0.9996610	
Y	IRON	ppm	0.1033260	0.1033260	6.449075	103	50	150	0.10	0.9999172	
Y	LEAD	ppm	0.005719697	0.005719697	11.19387	114	50	150	0.0050	0.9999469	
Y	LITHIUM	ppm	0.01598882	0.01598882	7.204337	107	50	150	0.0150	0.9994205	
Y	MAGNESIUM	ppm	0.09603934	0.09603934	5.865192	96	50	150	0.10	0.9999892	
Y	MANGANESE	ppm	0.01051996	0.01051996	0.3486096	105	50	150	0.01	0.9999353	
Y	MOLYBDENUM	ppm	0.005232557	0.005232557	4.144500	105	50	150	0.0050	0.9998910	
Y	NICKEL	ppm	0.02189943	0.02189943	2.073244	109	50	150	0.02	0.9999525	
Y	POTASSIUM	ppm	0.5132036	0.5132036	5.874703	103	50	150	0.50	0.9999935	
Y	SELENIUM	ppm	0.01883495	0.01883495	9.508629	94	50	150	0.02	0.9999785	
Y	SILICON	ppm	0.1870121	0.1870121	0.7455334	94	50	150	0.20	0.9999639	
Y	SILVER	ppm	0.01021142	0.01021142	1.667919	102	50	150	0.01	0.9999329	
Y	SODIUM	ppm	0.5276910	0.5276910	5.295605	106	50	150	0.50	0.9999736	
Y	STRONTIUM	ppm	0.009948169	0.009948169	5.262206	99	50	150	0.01	0.9994880	
Y	SULFUR	ppm	4.511196	4.511196	0.1696910	451	50	150	1	0.9998580	NT
Y	THALLIUM	ppm	0.02041305	0.02041305	6.045733	102	50	150	0.02	0.9999546	
Y	TIN	ppm	0.01897423	0.01897423	2.151813	95	50	150	0.02	0.9997528	

Sample ID: ICVLL
Analysis Date: 10/30/14 13:28 Standard ID: 14G16199
Sequence: 11

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.01028636	0.01028636	3.698364	103	50	150	0.01	0.9995651
Y	VANADIUM	ppm	0.008048993	0.008048993	22.64738	80	50	150	0.01	0.9995501
Y	ZINC	ppm	0.03416952	0.03416952	0.4893930	114	50	150	0.03	0.9997065

Sample ID: CCVLL
Analysis Date: 10/30/14 16:24 Standard ID:
Sequence: 50

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	11352.42	98.71024	98.71024	0.07118931	99	60	140	11500.75	
N	INDIUM	%	3796.499	98.79352	98.79352	0.08103706	99	60	140	3842.862	
N	YTTRIUM	%	6084.761	94.86662	94.86662	2.657975	95	60	140	6414.017	
N	YTTRIUM	%	166501.2	96.45153	96.45153	0.3146662	96	60	140	172626.9	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.1120188	0.1120188	8.445801	112	1	200	0.10	0.9999974
Y	ANTIMONY	ppm	0.02113164	0.02113164	0.5426816	106	1	200	0.02	0.9999920
Y	ARSENIC	ppm	0.01970232	0.01970232	6.755460	99	1	200	0.02	0.9998579
Y	BARIUM	ppm	0.005353078	0.005353078	1.255484	107	1	200	0.0050	0.9999911
Y	BERYLLIUM	ppm	0.002016622	0.002016622	3.031254	101	1	200	0.0020	0.9996309
Y	BORON	ppm	0.1954413	0.1954413	1.299249	98	1	200	0.20	0.9995218
Y	CADMIUM	ppm	0.005357528	0.005357528	1.087892	107	1	200	0.0050	0.9999868
Y	CALCIUM	ppm	0.5322823	0.5322823	2.983636	106	1	200	0.50	0.9996942
Y	CHROMIUM	ppm	0.01066563	0.01066563	3.940028	107	1	200	0.01	0.9998925
Y	COBALT	ppm	0.01001495	0.01001495	2.051119	100	1	200	0.01	0.9999494
Y	COPPER	ppm	0.02154959	0.02154959	11.22742	108	1	200	0.02	0.9996610
Y	IRON	ppm	0.1156171	0.1156171	4.929687	116	1	200	0.10	0.9999172
Y	LEAD	ppm	0.005436238	0.005436238	14.66480	109	1	200	0.0050	0.9999469
Y	LITHIUM	ppm	0.01665085	0.01665085	2.132190	111	1	200	0.0150	0.9994205
Y	MAGNESIUM	ppm	0.1148713	0.1148713	9.290249	115	1	200	0.10	0.9999892
Y	MANGANESE	ppm	0.01108002	0.01108002	0.1984892	111	1	200	0.01	0.9999353
Y	MOLYBDENUM	ppm	0.005424104	0.005424104	1.518093	108	1	200	0.0050	0.9998910
Y	NICKEL	ppm	0.02141046	0.02141046	0.5322366	107	1	200	0.02	0.9999525
Y	POTASSIUM	ppm	0.5393070	0.5393070	4.429832	108	1	200	0.50	0.9999935
Y	SELENIUM	ppm	0.01736214	0.01736214	9.364920	87	1	200	0.02	0.9999785
Y	SILICON	ppm	0.1932802	0.1932802	0.4948605	97	1	200	0.20	0.9999639
Y	SILVER	ppm	0.01023616	0.01023616	3.910132	102	1	200	0.01	0.9999329
Y	SODIUM	ppm	0.5410057	0.5410057	3.398274	108	1	200	0.50	0.9999736
Y	STRONTIUM	ppm	0.01043499	0.01043499	2.720790	104	1	200	0.01	0.9994880
N	SULFUR	ppm	4.414460	4.414460	0.2324276	441			1	0.9998580
Y	THALLIUM	ppm	0.02031213	0.02031213	4.074919	102	1	200	0.02	0.9999546
Y	TIN	ppm	0.01939581	0.01939581	1.666651	97	1	200	0.02	0.9997528

Sample ID: CCVLL
Analysis Date: 10/30/14 16:24 Standard ID:
Sequence: 50

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.01089630	0.01089630	5.282554	109	1	200	0.01	0.9995651
Y	VANADIUM	ppm	0.01006339	0.01006339	21.38453	101	1	200	0.01	0.9995501
Y	ZINC	ppm	0.03555056	0.03555056	0.5460188	119	1	200	0.03	0.9997065

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: 11/03/14 09:50 Standard ID: 14J27641
Sequence: 18

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2765441	101.1261	101.1261	0.7547550	101	60	140	2734645	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.06450442	0.06450442	34.99402	65	50	150	0.10	0.9998882
Y	ANTIMONY	mg/L	0.02238455	0.02238455	12.53467	112	50	150	0.02	0.9999044
Y	ARSENIC	mg/L	0.02937660	0.02937660	9.647194	147	50	150	0.02	0.9999000
Y	BARIUM	mg/L	0.005389451	0.005389451	0.4451999	108	50	150	0.0050	0.9999251
Y	BERYLLIUM	mg/L	0.002010561	0.002010561	2.311990	101	50	150	0.0020	0.9999834
Y	BORON	mg/L	0.2059269	0.2059269	2.458671	103	50	150	0.20	0.9999053
Y	CADMIUM	mg/L	0.005079797	0.005079797	3.267793	102	50	150	0.0050	0.9999884
Y	CALCIUM	mg/L	0.4645812	0.4645812	0.4319304	93	50	150	0.50	0.9999604
Y	CHROMIUM	mg/L	0.01008005	0.01008005	1.537297	101	50	150	0.01	0.9999524
Y	COBALT	mg/L	0.01055466	0.01055466	2.462634	106	50	150	0.01	0.9999406
Y	COPPER	mg/L	0.02442867	0.02442867	3.224972	122	50	150	0.02	0.9997691
Y	IRON	mg/L	0.1031467	0.1031467	1.301264	103	50	150	0.10	0.9999051
Y	LEAD	mg/L	0.004330979	0.004330979	14.20659	87	50	150	0.0050	0.9999909
Y	LITHIUM	mg/L	0.01881688	0.01881688	8.692009	125	50	150	0.0150	0.9999872
Y	MAGNESIUM	mg/L	0.09394255	0.09394255	3.225263	94	50	150	0.10	0.9999671
Y	MANGANESE	mg/L	0.01002498	0.01002498	1.673052	100	50	150	0.01	0.9999965
Y	MOLYBDENUM	mg/L	0.004273336	0.004273336	10.66877	85	50	150	0.0050	0.9999293
Y	NICKEL	mg/L	0.01838969	0.01838969	3.061337	92	50	150	0.02	0.9999946
Y	POTASSIUM	mg/L	0.6385247	0.6385247	4.661367	128	50	150	0.50	0.9999170
Y	SELENIUM	mg/L	0.01485474	0.01485474	69.17087	74	50	150	0.02	0.9999283
Y	SILICON	mg/L	0.1814569	0.1814569	2.291741	91	50	150	0.20	0.9999662
Y	SILVER	mg/L	0.009487919	0.009487919	9.674502	95	50	150	0.01	0.9998292
Y	SODIUM	mg/L	0.5779655	0.5779655	1.896309	116	50	150	0.50	0.9999962
Y	STRONTIUM	mg/L	0.009724621	0.009724621	0.1225704	97	50	150	0.01	0.9999994
Y	THALLIUM	mg/L	0.02250145	0.02250145	1.601999	113	50	150	0.02	0.9999962
Y	TIN	mg/L	0.02084323	0.02084323	4.777698	104	50	150	0.02	0.9999307
Y	TITANIUM	mg/L	0.01020583	0.01020583	2.684096	102	50	150	0.01	0.9999903
Y	VANADIUM	mg/L	0.009070485	0.009070485	4.425166	91	50	150	0.01	0.9999280
Y	ZINC	mg/L	0.02890280	0.02890280	2.097342	96	50	150	0.03	0.9998212

Sample ID: CCVLL
Analysis Date: 11/03/14 13:16 Standard ID: 14J27641
Sequence: 43

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	3038321	111.1048	111.1048	1.138010	111	60	140	2734645	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.07556471	0.07556471	19.36361	76	1	200	0.10	0.9998882
Y	ANTIMONY	mg/L	0.01678655	0.01678655	20.94754	84	1	200	0.02	0.9999044
Y	ARSENIC	mg/L	0.01849984	0.01849984	25.71463	92	1	200	0.02	0.9999000
Y	BARIUM	mg/L	0.005121944	0.005121944	2.436167	102	1	200	0.0050	0.9999251
Y	BERYLLIUM	mg/L	0.001818062	0.001818062	1.700370	91	1	200	0.0020	0.9999834
Y	BORON	mg/L	0.1894082	0.1894082	1.313762	95	1	200	0.20	0.9999053
Y	CADMIUM	mg/L	0.003890688	0.003890688	5.886072	78	1	200	0.0050	0.9999884
Y	CALCIUM	mg/L	0.4615731	0.4615731	0.5225206	92	1	200	0.50	0.9999604
Y	CHROMIUM	mg/L	0.01020470	0.01020470	1.367393	102	1	200	0.01	0.9999524
Y	COBALT	mg/L	0.01020197	0.01020197	2.458218	102	1	200	0.01	0.9999406
Y	COPPER	mg/L	0.01834203	0.01834203	3.639597	92	1	200	0.02	0.9997691
Y	IRON	mg/L	0.09767820	0.09767820	3.282371	98	1	200	0.10	0.9999051
Y	LEAD	mg/L	0.003247175	0.003247175	54.69645	65	1	200	0.0050	0.9999909
Y	LITHIUM	mg/L	0.01302090	0.01302090	11.61188	87	1	200	0.0150	0.9999872
Y	MAGNESIUM	mg/L	0.08857147	0.08857147	2.659197	89	1	200	0.10	0.9999671
Y	MANGANESE	mg/L	0.009466014	0.009466014	1.188295	95	1	200	0.01	0.9999965
Y	MOLYBDENUM	mg/L	0.004731981	0.004731981	15.17014	95	1	200	0.0050	0.9999293
Y	NICKEL	mg/L	0.02734527	0.02734527	1.982671	137	1	200	0.02	0.9999946
Y	POTASSIUM	mg/L	0.3929153	0.3929153	10.01298	79	1	200	0.50	0.9999170
Y	SELENIUM	mg/L	0.01308369	0.01308369	50.84089	65	1	200	0.02	0.9999283
Y	SILICON	mg/L	0.1583133	0.1583133	4.367672	79	1	200	0.20	0.9999662
Y	SILVER	mg/L	0.01066386	0.01066386	4.471887	107	1	200	0.01	0.9998292
Y	SODIUM	mg/L	0.4998729	0.4998729	2.644201	100	1	200	0.50	0.9999962
Y	STRONTIUM	mg/L	0.01001077	0.01001077	0.8538900	100	1	200	0.01	0.9999994
Y	THALLIUM	mg/L	0.01857918	0.01857918	22.01390	93	1	200	0.02	0.9999962
Y	TIN	mg/L	0.01874718	0.01874718	9.927934	94	1	200	0.02	0.9999307
Y	TITANIUM	mg/L	0.009771492	0.009771492	2.116150	98	1	200	0.01	0.9999903
Y	VANADIUM	mg/L	0.008800560	0.008800560	3.242829	88	1	200	0.01	0.9999280
Y	ZINC	mg/L	0.02720494	0.02720494	1.927702	91	1	200	0.03	0.9998212

Sample ID: CCVLL
Analysis Date: 11/03/14 16:02 Standard ID: 14J27641
Sequence: 72

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	3088251	112.9306	112.9306	2.699164	113	60	140	2734645	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.06000996	0.06000996	19.46933	60	1	200	0.10	0.9998882
Y	ANTIMONY	mg/L	0.01723855	0.01723855	14.73119	86	1	200	0.02	0.9999044
Y	ARSENIC	mg/L	0.02219922	0.02219922	41.49869	111	1	200	0.02	0.9999000
Y	BARIUM	mg/L	0.005053485	0.005053485	4.251703	101	1	200	0.0050	0.9999251
Y	BERYLLIUM	mg/L	0.001786499	0.001786499	2.748494	89	1	200	0.0020	0.9999834
Y	BORON	mg/L	0.1868538	0.1868538	3.167787	93	1	200	0.20	0.9999053
Y	CADMIUM	mg/L	0.003647776	0.003647776	8.068553	73	1	200	0.0050	0.9999884
Y	CALCIUM	mg/L	0.4730291	0.4730291	0.8867589	95	1	200	0.50	0.9999604
Y	CHROMIUM	mg/L	0.01003923	0.01003923	1.541471	100	1	200	0.01	0.9999524
Y	COBALT	mg/L	0.01070510	0.01070510	1.394352	107	1	200	0.01	0.9999406
Y	COPPER	mg/L	0.01769605	0.01769605	4.011178	88	1	200	0.02	0.9997691
Y	IRON	mg/L	0.09666871	0.09666871	2.525117	97	1	200	0.10	0.9999051
Y	LEAD	mg/L	0.003718748	0.003718748	86.61752	74	1	200	0.0050	0.9999909
Y	LITHIUM	mg/L	0.01467718	0.01467718	12.36559	98	1	200	0.0150	0.9999872
Y	MAGNESIUM	mg/L	0.08725802	0.08725802	2.477741	87	1	200	0.10	0.9999671
Y	MANGANESE	mg/L	0.009331421	0.009331421	1.641915	93	1	200	0.01	0.9999965
Y	MOLYBDENUM	mg/L	0.003796538	0.003796538	24.26562	76	1	200	0.0050	0.9999293
Y	NICKEL	mg/L	0.02836154	0.02836154	6.923700	142	1	200	0.02	0.9999946
Y	POTASSIUM	mg/L	0.3487480	0.3487480	25.83542	70	1	200	0.50	0.9999170
Y	SELENIUM	mg/L	0.01339189	0.01339189	35.72271	67	1	200	0.02	0.9999283
Y	SILICON	mg/L	0.1678949	0.1678949	5.705559	84	1	200	0.20	0.9999662
Y	SILVER	mg/L	0.01061458	0.01061458	2.357431	106	1	200	0.01	0.9998292
Y	SODIUM	mg/L	0.5137391	0.5137391	2.232456	103	1	200	0.50	0.9999962
Y	STRONTIUM	mg/L	0.009879344	0.009879344	0.6066889	99	1	200	0.01	0.9999994
Y	THALLIUM	mg/L	0.02170797	0.02170797	13.67613	109	1	200	0.02	0.9999962
Y	TIN	mg/L	0.01846079	0.01846079	2.082706	92	1	200	0.02	0.9999307
Y	TITANIUM	mg/L	0.009689687	0.009689687	1.331105	97	1	200	0.01	0.9999903
Y	VANADIUM	mg/L	0.009150685	0.009150685	5.255124	92	1	200	0.01	0.9999280
Y	ZINC	mg/L	0.02690236	0.02690236	3.954068	90	1	200	0.03	0.9998212

Sample ID: CCVLL
Analysis Date: 11/03/14 21:16 Standard ID: 14J27641
Sequence: 126

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	3017614	110.3475	110.3475	2.256358	110	60	140	2734645	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.05186841	0.05186841	45.92620	52	1	200	0.10	0.9998882
Y	ANTIMONY	mg/L	0.01512163	0.01512163	13.30016	76	1	200	0.02	0.9999044
Y	ARSENIC	mg/L	0.02126245	0.02126245	13.45522	106	1	200	0.02	0.9999000
Y	BARIUM	mg/L	0.005236546	0.005236546	2.642535	105	1	200	0.0050	0.9999251
Y	BERYLLIUM	mg/L	0.001829929	0.001829929	2.900446	91	1	200	0.0020	0.9999834
Y	BORON	mg/L	0.1747923	0.1747923	2.200093	87	1	200	0.20	0.9999053
Y	CADMIUM	mg/L	0.003872416	0.003872416	6.061756	77	1	200	0.0050	0.9999884
Y	CALCIUM	mg/L	0.4835870	0.4835870	1.399749	97	1	200	0.50	0.9999604
Y	CHROMIUM	mg/L	0.01043064	0.01043064	0.9821912	104	1	200	0.01	0.9999524
Y	COBALT	mg/L	0.01099194	0.01099194	2.032626	110	1	200	0.01	0.9999406
Y	COPPER	mg/L	0.01834285	0.01834285	4.335969	92	1	200	0.02	0.9997691
Y	IRON	mg/L	0.1000202	0.1000202	2.564634	100	1	200	0.10	0.9999051
Y	LEAD	mg/L	0.001870628	0.001870628	53.75088	37	1	200	0.0050	0.9999909
Y	LITHIUM	mg/L	0.01632903	0.01632903	5.584826	109	1	200	0.0150	0.9999872
Y	MAGNESIUM	mg/L	0.09618377	0.09618377	3.680837	96	1	200	0.10	0.9999671
Y	MANGANESE	mg/L	0.009693821	0.009693821	4.129091	97	1	200	0.01	0.9999965
Y	MOLYBDENUM	mg/L	0.004243950	0.004243950	8.083163	85	1	200	0.0050	0.9999293
Y	NICKEL	mg/L	0.02700985	0.02700985	2.025046	135	1	200	0.02	0.9999946
Y	POTASSIUM	mg/L	0.5285774	0.5285774	5.302374	106	1	200	0.50	0.9999170
Y	SELENIUM	mg/L	0.01009837	0.01009837	14.14153	50	1	200	0.02	0.9999283
Y	SILICON	mg/L	0.1591248	0.1591248	4.801374	80	1	200	0.20	0.9999662
Y	SILVER	mg/L	0.01106298	0.01106298	3.439433	111	1	200	0.01	0.9998292
Y	SODIUM	mg/L	0.5499470	0.5499470	3.403712	110	1	200	0.50	0.9999962
Y	STRONTIUM	mg/L	0.01010953	0.01010953	1.059642	101	1	200	0.01	0.9999994
Y	THALLIUM	mg/L	0.02124430	0.02124430	5.272553	106	1	200	0.02	0.9999962
Y	TIN	mg/L	0.01869048	0.01869048	2.739014	93	1	200	0.02	0.9999307
Y	TITANIUM	mg/L	0.009936371	0.009936371	3.600441	99	1	200	0.01	0.9999903
Y	VANADIUM	mg/L	0.008931188	0.008931188	1.800301	89	1	200	0.01	0.9999280
Y	ZINC	mg/L	0.02839768	0.02839768	2.251220	95	1	200	0.03	0.9998212

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: 11/04/14 08:11 Standard ID: 14J27641
Sequence: 8

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2540377	98.46793	98.46793	0.3269627	98	60	140	2579903	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.09980678	0.09980678	7.124084	100	50	150	0.10	0.9997953
Y	ANTIMONY	mg/L	0.01778796	0.01778796	13.36690	89	50	150	0.02	0.9998648
Y	ARSENIC	mg/L	0.01321800	0.01321800	9.104072	66	50	150	0.02	0.9998430
Y	BARIUM	mg/L	0.005240100	0.005240100	2.534112	105	50	150	0.0050	0.9999891
Y	BERYLLIUM	mg/L	0.001846039	0.001846039	2.861062	92	50	150	0.0020	0.9999586
Y	BORON	mg/L	0.1931222	0.1931222	0.5189039	97	50	150	0.20	0.9997433
Y	CADMIUM	mg/L	0.005185449	0.005185449	2.062861	104	50	150	0.0050	0.9999878
Y	CALCIUM	mg/L	0.4580271	0.4580271	2.005725	92	50	150	0.50	0.9999435
Y	CHROMIUM	mg/L	0.01049826	0.01049826	6.111495	105	50	150	0.01	0.9999257
Y	COBALT	mg/L	0.009702657	0.009702657	3.518742	97	50	150	0.01	0.9999344
Y	COPPER	mg/L	0.02138711	0.02138711	3.937939	107	50	150	0.02	0.9997609
Y	IRON	mg/L	0.1047658	0.1047658	0.9841957	105	50	150	0.10	0.9999107
Y	LEAD	mg/L	0.003174626	0.003174626	108.3159	63	50	150	0.0050	0.9999747
Y	LITHIUM	mg/L	0.01520960	0.01520960	6.660042	101	50	150	0.0150	0.9999723
Y	MAGNESIUM	mg/L	0.1045221	0.1045221	1.379721	105	50	150	0.10	0.9999649
Y	MANGANESE	mg/L	0.009725276	0.009725276	2.940398	97	50	150	0.01	0.9999864
Y	MOLYBDENUM	mg/L	0.005171969	0.005171969	2.329112	103	50	150	0.0050	0.9999299
Y	NICKEL	mg/L	0.01294205	0.01294205	16.58515	65	50	150	0.02	0.9999913
Y	POTASSIUM	mg/L	0.5769642	0.5769642	7.239835	115	50	150	0.50	0.9998574
Y	SELENIUM	mg/L	0.02406647	0.02406647	49.41717	120	50	150	0.02	0.9998500
Y	SILICON	mg/L	0.1792273	0.1792273	1.454880	90	50	150	0.20	0.9999058
Y	SILVER	mg/L	0.01053548	0.01053548	10.75443	105	50	150	0.01	0.9997992
Y	SODIUM	mg/L	0.5435690	0.5435690	3.703324	109	50	150	0.50	0.9999972
Y	STRONTIUM	mg/L	0.009665430	0.009665430	0.6308395	97	50	150	0.01	0.9999995
Y	THALLIUM	mg/L	0.02036710	0.02036710	13.82240	102	50	150	0.02	0.9999938
Y	TIN	mg/L	0.01990642	0.01990642	9.796579	100	50	150	0.02	0.9999081
Y	TITANIUM	mg/L	0.01006629	0.01006629	3.489301	101	50	150	0.01	0.9999856
Y	VANADIUM	mg/L	0.01015493	0.01015493	1.465084	102	50	150	0.01	0.9999376
Y	ZINC	mg/L	0.02956745	0.02956745	0.9806261	99	50	150	0.03	0.9997910

Sample ID: CCVLL
Analysis Date: 11/04/14 11:03 Standard ID: 14J27641
Sequence: 38

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2742815	106.3147	106.3147	0.8821789	106	60	140	2579903	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	mg/L	0.1034252	0.1034252	12.24506	103	1	200	0.10	0.9997953
Y	ANTIMONY	mg/L	0.01634327	0.01634327	4.829987	82	1	200	0.02	0.9998648
Y	ARSENIC	mg/L	0.01715837	0.01715837	29.48034	86	1	200	0.02	0.9998430
Y	BARIUM	mg/L	0.005411834	0.005411834	1.515833	108	1	200	0.0050	0.9999891
Y	BERYLLIUM	mg/L	0.001821192	0.001821192	2.001524	91	1	200	0.0020	0.9999586
Y	BORON	mg/L	0.1758293	0.1758293	2.313795	88	1	200	0.20	0.9997433
Y	CADMIUM	mg/L	0.004546361	0.004546361	7.571951	91	1	200	0.0050	0.9999878
Y	CALCIUM	mg/L	0.4771936	0.4771936	0.3627313	95	1	200	0.50	0.9999435
Y	CHROMIUM	mg/L	0.01092156	0.01092156	1.624974	109	1	200	0.01	0.9999257
Y	COBALT	mg/L	0.01041920	0.01041920	1.961081	104	1	200	0.01	0.9999344
Y	COPPER	mg/L	0.01942998	0.01942998	1.374732	97	1	200	0.02	0.9997609
Y	IRON	mg/L	0.1306566	0.1306566	0.3452152	131	1	200	0.10	0.9999107
Y	LEAD	mg/L	0.001110468	0.001110468	85.12186	22	1	200	0.0050	0.9999747
Y	LITHIUM	mg/L	0.01272022	0.01272022	6.319446	85	1	200	0.0150	0.9999723
Y	MAGNESIUM	mg/L	0.1045852	0.1045852	2.026871	105	1	200	0.10	0.9999649
Y	MANGANESE	mg/L	0.01449194	0.01449194	0.4190092	145	1	200	0.01	0.9999864
Y	MOLYBDENUM	mg/L	0.004729956	0.004729956	7.044323	95	1	200	0.0050	0.9999299
Y	NICKEL	mg/L	0.01941175	0.01941175	14.24831	97	1	200	0.02	0.9999913
Y	POTASSIUM	mg/L	0.5778307	0.5778307	9.500002	116	1	200	0.50	0.9998574
Y	SELENIUM	mg/L	0.01880664	0.01880664	21.25547	94	1	200	0.02	0.9998500
Y	SILICON	mg/L	0.1820601	0.1820601	1.201606	91	1	200	0.20	0.9999058
Y	SILVER	mg/L	0.01254030	0.01254030	1.371827	125	1	200	0.01	0.9997992
Y	SODIUM	mg/L	0.5357224	0.5357224	1.662871	107	1	200	0.50	0.9999972
Y	STRONTIUM	mg/L	0.01009064	0.01009064	0.3296443	101	1	200	0.01	0.9999995
Y	THALLIUM	mg/L	0.02164908	0.02164908	8.930036	108	1	200	0.02	0.9999938
Y	TIN	mg/L	0.01833539	0.01833539	8.893884	92	1	200	0.02	0.9999081
Y	TITANIUM	mg/L	0.01033846	0.01033846	1.445619	103	1	200	0.01	0.9999856
Y	VANADIUM	mg/L	0.009485429	0.009485429	3.090391	95	1	200	0.01	0.9999376
Y	ZINC	mg/L	0.03049751	0.03049751	2.070735	102	1	200	0.03	0.9997910

Raw Data

3050B Soils
ESC Lab Sciences

Method: 3050B SOP:340388 R.13

1:1 HNO3 Standard ID:	(none)	**Vol. Used:**	5 mL	**Workgroup:**	WG750261
HNO3 Standard ID:	14J15019	**Vol. Used:**	2.5 mL	**Date:**	10/23/2014
H2O2 Standard ID:	14I11318	**Vol. Used:**	1.5 mL	**Prep Analyst:**	681
HCL Standard ID:	14G29896	**Vol. Used:**	2.5 mL	**Auto Block ID:**	3
Matrix Spike Standard ID:	14J02356	**Vol. Used:**	0.5 mL	**Balance ID:**	1128150150
ICP Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.5 mL	**Start Date & Time:**	10/25/14 13:30
LCS Standard ID:	14J22350	**Mass Used:**	1.0 g	**Start Analyst:**	669
Digestion Vessel Standard ID:	ESC30376			**Stop Date & Time:**	10/27/14 6:00
				Stop Analyst:	646
Spike Pipetter ID:	H07621302			**Temperature:**	93
					(must be maintained between 90-95 C)

Pos.		Sample Number	Mass (g)	Final Volume (mL)	Sample Description		Comments
					Color	Type	
1		**BLANK**	0.52	50	White	Teflon Chips	
2		**LCS**	0.51	50	Brown	Soil LCS	
3		**LCSD**	0.49	50	Brown	Soil LCS	
4	1.	**L729024-01**	0.49	50	Brown	Dirt	
5	1.	**MS L729024-01**	0.52	50	Brown	Dirt	
6	1.	**MSD L729024-01**	0.49	50	Brown	Dirt	
7	2.	**L729024-02**	0.49	50	Brown	Dirt	
8	3.	**L729024-04**	0.51	50	Brown	Dirt	
9	4.	**L729024-05**	0.48	50	Brown	Dirt	
10	5.	**L729026-01**	0.50	50	Brown	Dirt	
11	6.	**L729026-02**	0.50	50	Brown	Dirt	
12	7.	**L729026-03**	0.49	50	Brown	Dirt	
13	8.	**L729026-05**	0.51	50	Brown	Dirt	
14	9.	**L729026-06**	0.49	50	Brown	Dirt	
15	10.	**L729030-01**	0.50	50	Brown	Dirt	
16	11.	**L729030-02**	0.50	50	Brown	Dirt	
17	12.	**L729030-04**	0.50	50	Brown	Dirt	

18	13.	**L729030-05**	0.52	50	Brown	Dirt	
19	14.	**L729032-01**	0.52	50	Brown	Dirt	
20	15.	**L729032-02**	0.50	50	Brown	Dirt	
21	16.	**L729032-04**	0.51	50	Brown	Dirt	
22	17.	**L729032-05**	0.49	50	Brown	Dirt	
23	18.	**L729032-06**	0.49	50	Brown	Dirt	
24	19.	**L729032-07**	0.49	50	Brown	Dirt	
25	20.	**L729078-01**	5.00	50	Brown	Dirt	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

Reviewed By: **Analyst:** 646 JN

Additional Remarks: **Date:** 10/27/2014

3051 Soils
ESC Lab Sciences

Method: 3051 SOP:340388 R.13

HNO3 Standard ID:	14J30879	**Vol. Used:**	4.5 mL	**Workgroup:**	752044
HCl Standard ID:	14J02360	**Vol. Used:**	1.5 mL	**Date:**	11/1/2014
Matrix Spike Standard ID:	14J22403	**Vol. Used:**	0.5 mL	**Analyst:**	638
Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.5 mL	**Balance ID:**	1121462199
LCS Standard ID:	14J31922	**Mass Used:**	0.5 g	**Tray ID:**	6
				Microwave ID	MD9972
Spike Pipetter ID:	H07621302			**Digest Date &Time:**	11/1/14 8:54

Pos.		Sample Number	Mass (g)	Final Volume (mL)	Vessel Initial Weight (g)	Final Vessel Weight (g)	Sample Description Color	Sample Description Type	Comments
1		**BLANK**	0.52	50	140.40	140.40	White	Teflon Chips	
2		**LCS**	0.50	50	140.91	140.74	Brown	Soil LCS	
3		**LCSD**	0.50	50	140.84	140.84	Brown	Soil LCS	
4	1.	**L729024-01**	0.52	50	138.15	138.14	Tan	Dirt	DOD SAMPLE
5	1.	**MS L729024-01**	0.51	50	137.16	137.16	Tan	Dirt	DOD SAMPLE
6	1.	**MSD L729024-01**	0.53	50	137.49	137.35	Tan	Dirt	DOD SAMPLE
7	2.	**L729024-02**	0.53	50	135.76	135.73	Brown	Dirt	DOD SAMPLE
8	3.	**L729024-04**	0.53	50	141.86	141.82	Brown	Dirt	DOD SAMPLE
9	4.	**L729024-05**	0.54	50	137.02	136.96	Brown	Dirt	DOD SAMPLE
10	5.	**L729026-01**	0.50	50	137.31	137.31	Brown	Dirt	DOD SAMPLE
11	6.	**L729026-02**	0.52	50	135.68	135.66	Brown	Dirt	DOD SAMPLE
12	7.	**L729026-03**	0.53	50	138.09	138.08	Brown	Dirt	DOD SAMPLE
13	8.	**L729026-05**	0.52	50	135.34	135.29	Brown	Dirt	DOD SAMPLE
14	9.	**L729026-06**	0.55	50	138.36	138.07	Brown	Dirt	DOD SAMPLE
15	10.	**L729030-01**	0.55	50	137.57	137.56	Brown	Dirt	DOD SAMPLE
16	11.	**L729030-02**	0.54	50	139.02	139.01	Brown	Dirt	DOD SAMPLE
17	12.	**L729030-04**	0.51	50	137.63	137.63	Brown	Dirt	DOD SAMPLE
18	13.	**L729030-05**	0.51	50	140.68	140.63	Brown	Dirt	DOD SAMPLE
19	14.	**L729032-01**	0.52	50	142.25	142.25	Tan	Mud	DOD SAMPLE
20	15.	**L729032-02**	0.54	50	138.44	138.42	Grey	Dirt	DOD SAMPLE
21	16.	**L729032-04**	0.52	50	137.06	137.01	Brown	Dirt	DOD SAMPLE
22	17.	**L729032-05**	0.51	50	139.14	138.56	Brown	Dirt	DOD SAMPLE
23	18.	**L729032-06**	0.50	50	137.31	136.81	Brown	Dirt	DOD SAMPLE
24	19.	**L729032-07**	0.51	50	136.46	136.37	Brown	Dirt	DOD SAMPLE
25									
26									
27									
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34									

35								
36								

Reviewed By: **Analyst:** 572

Additional Remarks: **Date:** 11/1/2014

Comprehensive sample report

10/31/2014 7:46:52 AM

LabBook 103014ICP12A.imexp

Instrument esc icp 12
Serial number IC74DC141801

LabBook summary

Acquired by icp12 Date 10/30/2014 11:26:12 PM
Last changed by icp12 Date 10/30/2014 11:34:55 PM

Configuration iCAP 7000 ASX520
Template DAILY CALIBRATION
Evaluation eQuant
Number of samples 88
Number of results 88

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)

Comprehensive sample report

10/31/2014 7:46:52 AM

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	6	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	6	2
As	189.042 {478}	175.7	252.27	13	5	6	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	6	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	6	2

Comprehensive sample report

10/31/2014 7:46:52 AM

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

Comprehensive sample report

10/31/2014 7:46:52 AM

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)			

Comprehensive sample report

10/31/2014 7:46:52 AM

	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
Al 308.215 {109} (Radial)	500.000 ppm
B 249.678 {135} (Radial)	
Be 313.042 {108} (Radial)	
Ca 317.933 {106} (Radial)	
Ca 373.690 {90} (Radial)	500.000 ppm
Fe 259.940 {130} (Radial)	
Fe 271.441 {124} (Radial)	200.000 ppm
K 766.490 {44} (Radial)	100.000 ppm
Li 670.784 {50} (Radial)	
Mg 279.079 {121} (Radial)	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)	100.000 ppm
Si 251.611 {134} (Axial)	
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)	500.000 ppm
Zn 206.200 {463} (Axial)	
Cd 228.802 {447} (Axial)	
Cu 324.754 {104} (Radial)	

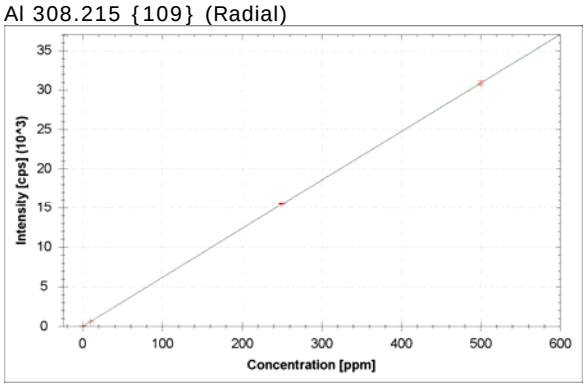
Symbol	Wavelength (nm) / Order	Fit Type	Weighting	Forcing
Al	308.215 {109}	Linear	None	Blank
B	249.678 {135}	Linear	None	Blank
Be	313.042 {108}	Linear	None	Blank

Comprehensive sample report

10/31/2014 7:46:52 AM

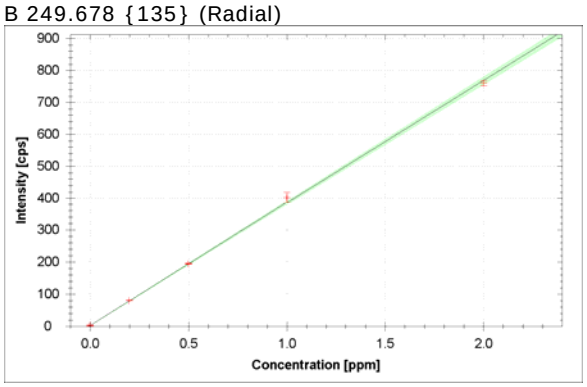
Symbol	Wavelength (nm) / Order	Fit Type	Weighting	Forcing
Ca	317.933 {106}	Linear	None	Blank
Ca	373.690 {90}	Linear	None	Blank
Fe	259.940 {130}	Linear	None	Blank
Fe	271.441 {124}	Linear	None	Blank
K	766.490 {44}	Linear	None	Blank
Li	670.784 {50}	Linear	None	Blank
Mg	279.079 {121}	Linear	None	Blank
Na	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) = 61.7663*x + 7.1622
R^2 = 1.0000
BEC = 0.116 ppm
LoD = 0.0605 ppm

B 249.678 {135} (Radial)

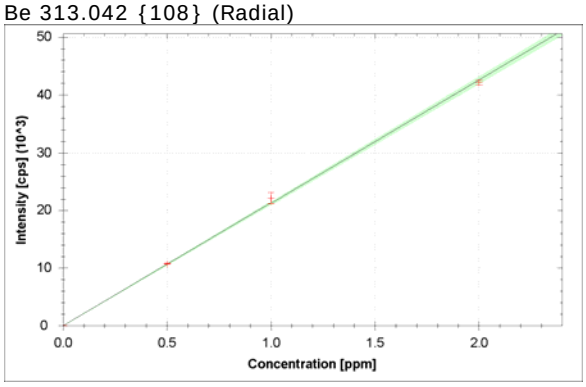


f(x) = 382.9776*x + 2.8163
R^2 = 0.9990
BEC = 0.007 ppm
LoD = 0.0163 ppm

Comprehensive sample report

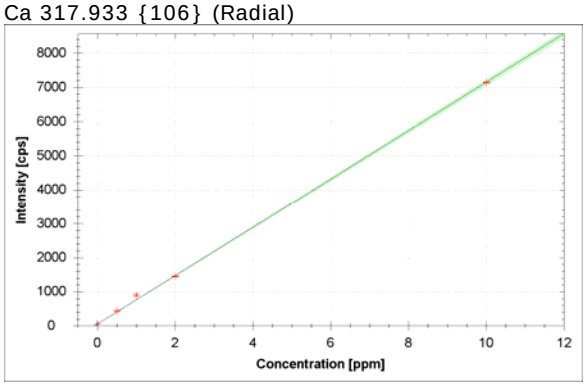
10/31/2014 7:46:52 AM

Be 313.042 {108} (Radial)



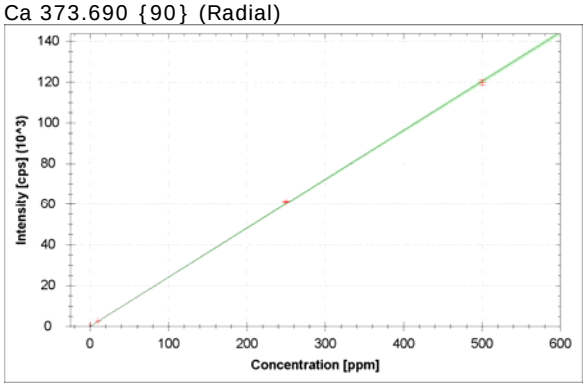
f(x) = 21294.0610*x + -2.9972
R^2 = 0.9993
BEC = 0.000 ppm
LoD = 0.0002 ppm

Ca 317.933 {106} (Radial)



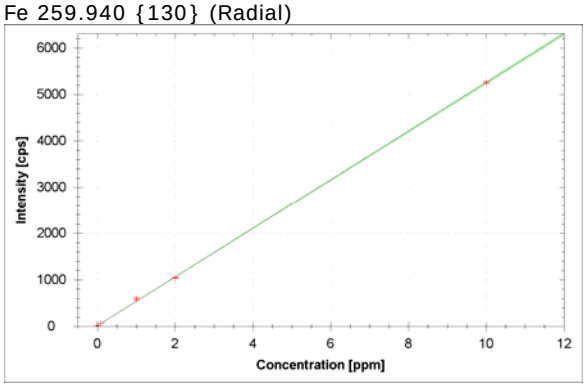
f(x) = 710.2931*x + 49.8568
R^2 = 0.9994
BEC = 0.070 ppm
LoD = 0.0090 ppm

Ca 373.690 {90} (Radial)



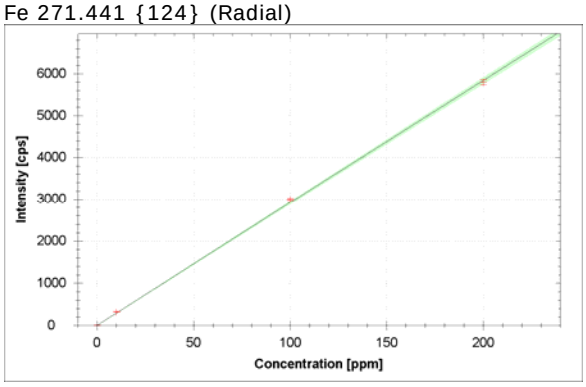
f(x) = 240.6198*x + 14.8893
R^2 = 0.9998
BEC = 0.062 ppm
LoD = 0.0170 ppm

Fe 259.940 {130} (Radial)



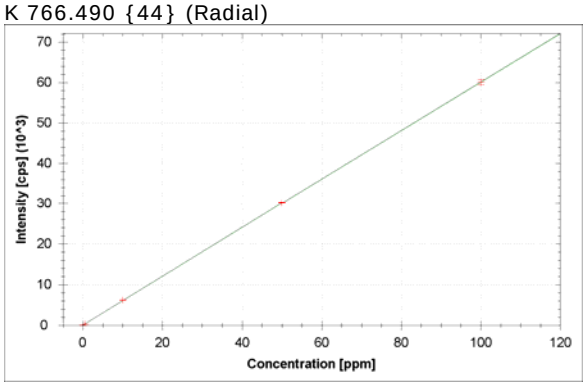
f(x) = 524.4632*x + 15.4164
R^2 = 0.9998
BEC = 0.029 ppm
LoD = 0.0046 ppm

Fe 271.441 {124} (Radial)



f(x) = 29.1745*x + 2.0083
R^2 = 0.9996
BEC = 0.069 ppm
LoD = 0.0790 ppm

K 766.490 {44} (Radial)

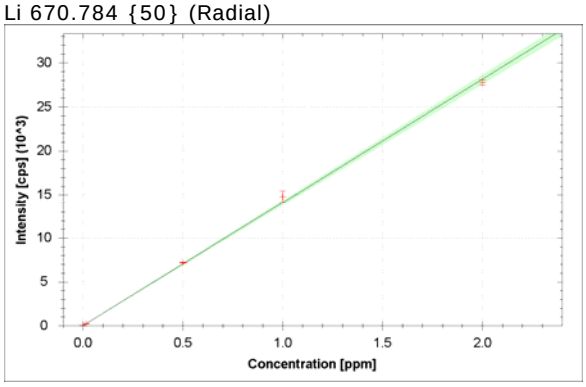


f(x) = 600.6065*x + 63.6330
R^2 = 1.0000
BEC = 0.106 ppm
LoD = 0.0067 ppm

Comprehensive sample report

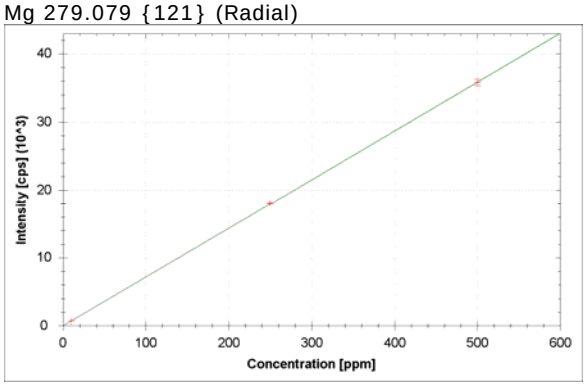
10/31/2014 7:46:52 AM

Li 670.784 {50} (Radial)



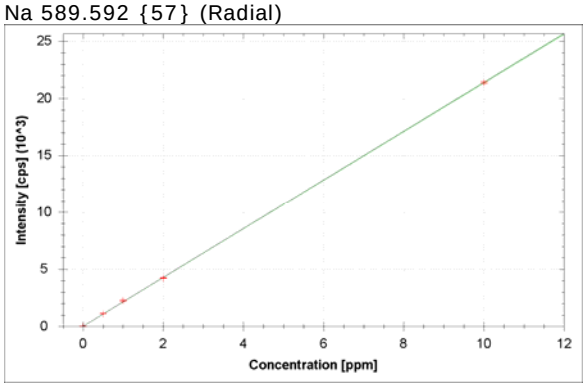
f(x) = 14061.4654*x + 16.7291
R^2 = 0.9988
BEC = 0.001 ppm
LoD = 0.0034 ppm

Mg 279.079 {121} (Radial)



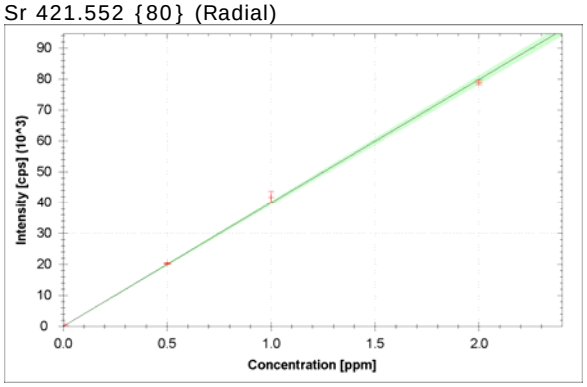
f(x) = 71.6816*x + -0.3764
R^2 = 1.0000
BEC = -0.005 ppm
LoD = 0.0173 ppm

Na 589.592 {57} (Radial)



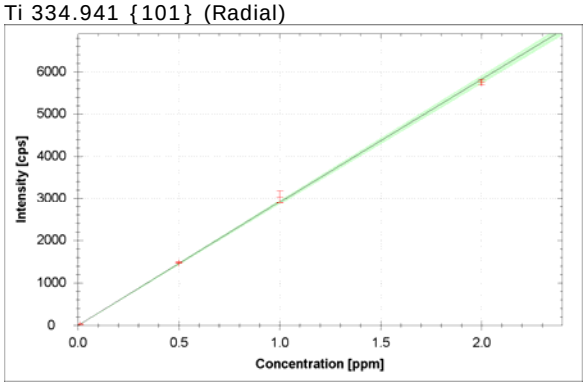
f(x) = 2137.7881*x + 7.0237
R^2 = 0.9999
BEC = 0.003 ppm
LoD = 0.0077 ppm

Sr 421.552 {80} (Radial)



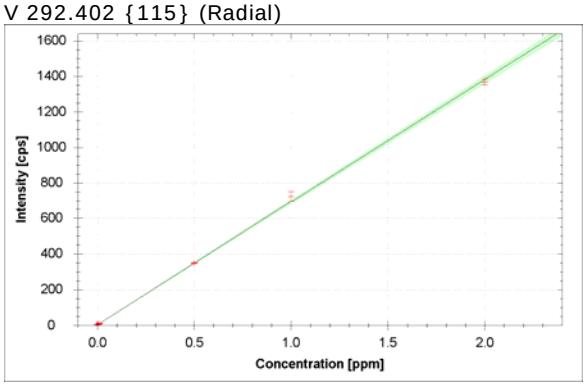
f(x) = 39943.1734*x + -6.7269
R^2 = 0.9990
BEC = 0.000 ppm
LoD = 0.0002 ppm

Ti 334.941 {101} (Radial)



f(x) = 2911.0518*x + -1.4526
R^2 = 0.9991
BEC = 0.000 ppm
LoD = 0.0023 ppm

V 292.402 {115} (Radial)

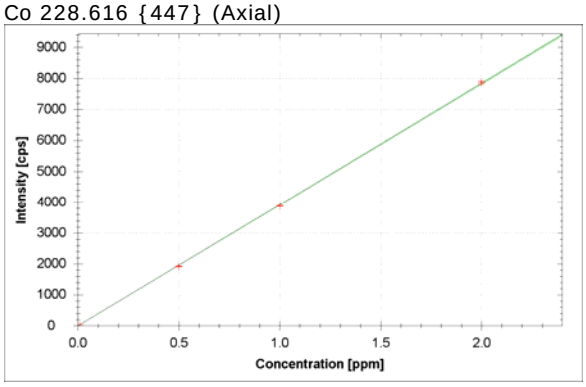


f(x) = 689.7519*x + 2.7994
R^2 = 0.9991
BEC = 0.004 ppm
LoD = 0.0141 ppm

Comprehensive sample report

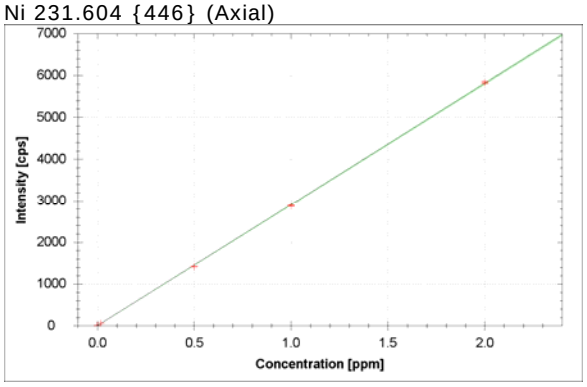
10/31/2014 7:46:52 AM

Co 228.616 {447} (Axial)



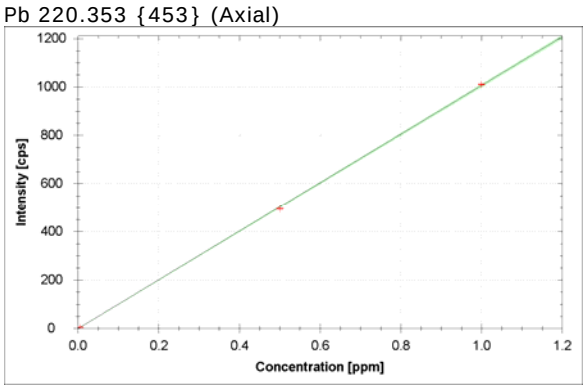
f(x) = 3917.4980*x + -0.1791
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Ni 231.604 {446} (Axial)



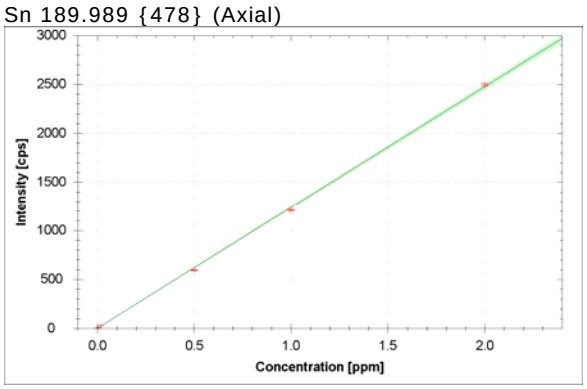
f(x) = 2903.6602*x + 2.0594
R^2 = 0.9999
BEC = 0.001 ppm
LoD = 0.0012 ppm

Pb 220.353 {453} (Axial)



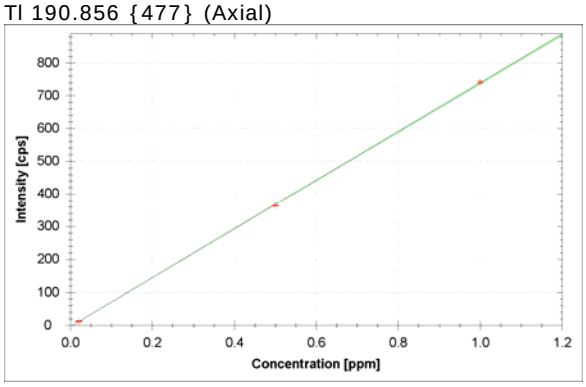
f(x) = 1007.0830*x + -1.0683
R^2 = 0.9999
BEC = -0.001 ppm
LoD = 0.0024 ppm

Sn 189.989 {478} (Axial)



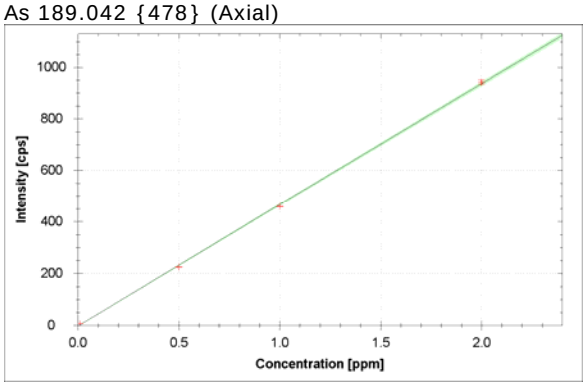
f(x) = 1237.2417*x + 1.6653
R^2 = 0.9995
BEC = 0.001 ppm
LoD = 0.0005 ppm

Tl 190.856 {477} (Axial)



f(x) = 741.8151*x + -3.4083
R^2 = 0.9999
BEC = -0.005 ppm
LoD = 0.0035 ppm

As 189.042 {478} (Axial)

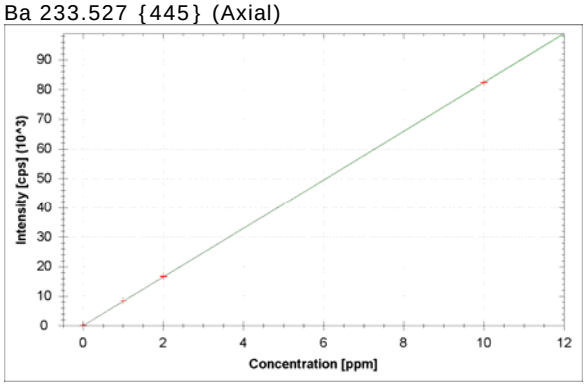


f(x) = 469.4658*x + -2.6911
R^2 = 0.9997
BEC = -0.006 ppm
LoD = 0.0013 ppm

Comprehensive sample report

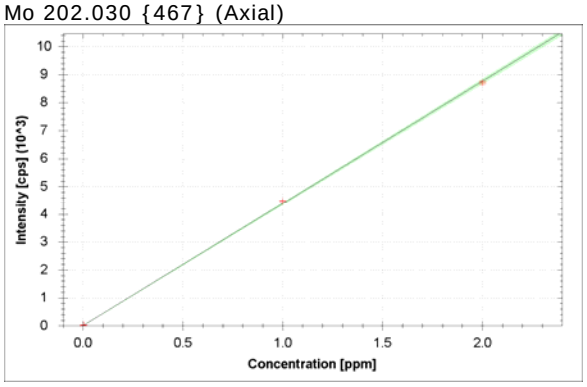
10/31/2014 7:46:52 AM

Ba 233.527 {445} (Axial)



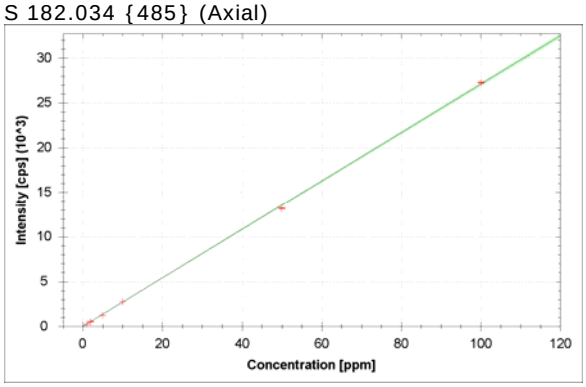
f(x) = 8240.6244*x + 2.9630
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Mo 202.030 {467} (Axial)



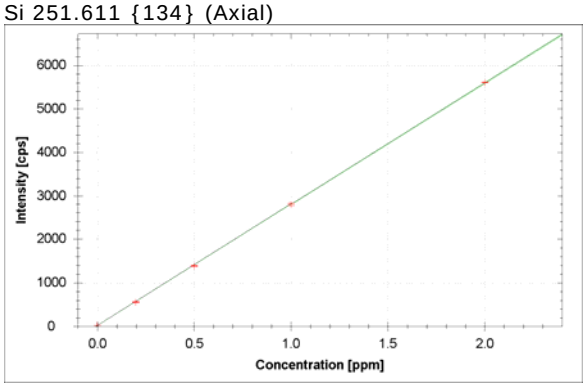
f(x) = 4378.9628*x + 2.9219
R^2 = 0.9998
BEC = 0.001 ppm
LoD = 0.0005 ppm

S 182.034 {485} (Axial)



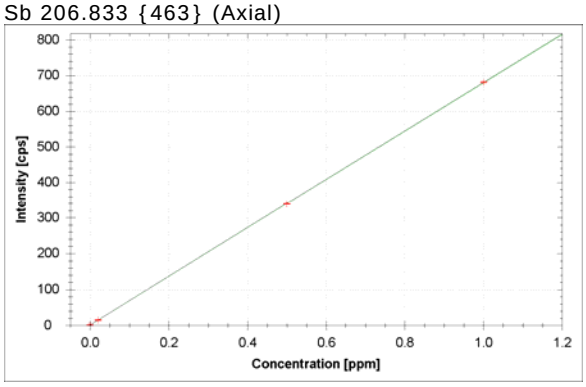
f(x) = 270.8264*x + 8.1720
R^2 = 0.9997
BEC = 0.030 ppm
LoD = 0.0049 ppm

Si 251.611 {134} (Axial)



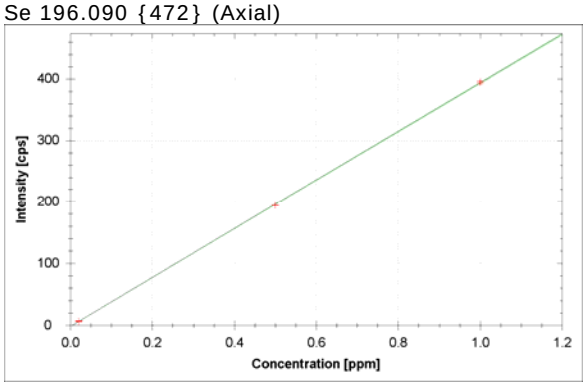
f(x) = 2785.4792*x + 21.5291
R^2 = 0.9999
BEC = 0.008 ppm
LoD = 0.0007 ppm

Sb 206.833 {463} (Axial)



f(x) = 679.1183*x + 1.1677
R^2 = 1.0000
BEC = 0.002 ppm
LoD = 0.0056 ppm

Se 196.090 {472} (Axial)

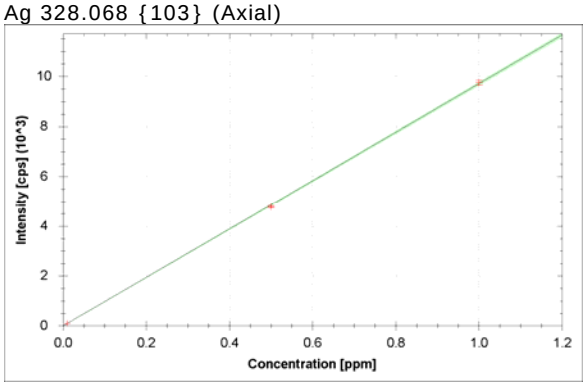


f(x) = 395.2012*x + -1.5381
R^2 = 1.0000
BEC = -0.004 ppm
LoD = 0.0034 ppm

Comprehensive sample report

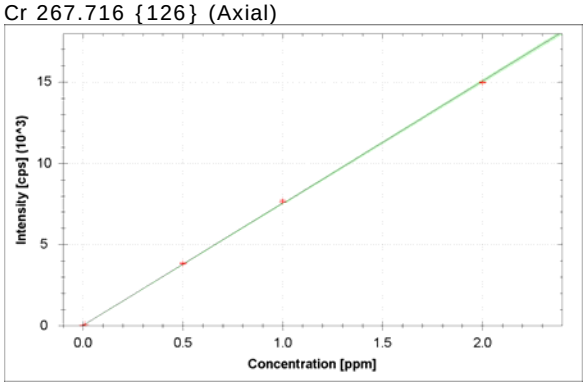
10/31/2014 7:46:52 AM

Ag 328.068 {103} (Axial)



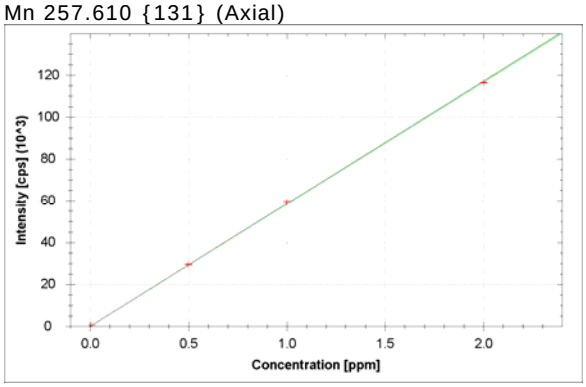
f(x) = 9720.2748*x + -6.5460
R^2 = 0.9999
BEC = -0.001 ppm
LoD = 0.0013 ppm

Cr 267.716 {126} (Axial)



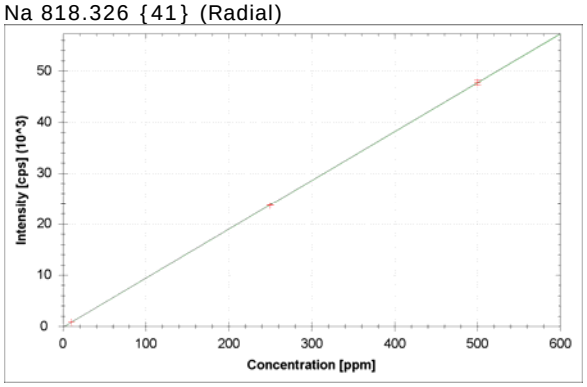
f(x) = 7515.0130*x + 18.6124
R^2 = 0.9998
BEC = 0.002 ppm
LoD = 0.0013 ppm

Mn 257.610 {131} (Axial)



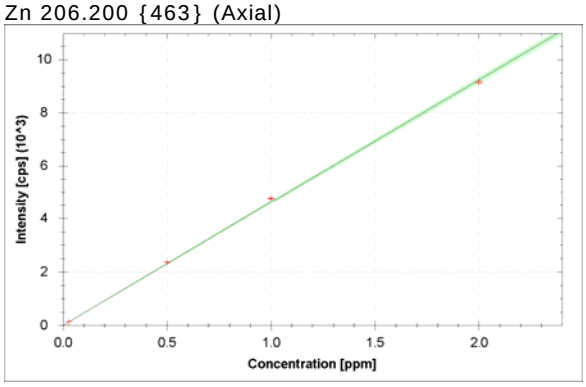
f(x) = 58507.8615*x + 11.1800
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0000 ppm

Na 818.326 {41} (Radial)



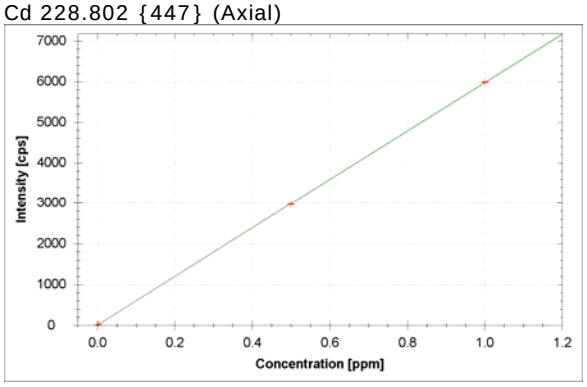
f(x) = 95.6543*x + -151.8490
R^2 = 1.0000
BEC = -1.587 ppm
LoD = 0.3799 ppm

Zn 206.200 {463} (Axial)



f(x) = 4619.9074*x + -0.0410
R^2 = 0.9994
BEC = 0.000 ppm
LoD = 0.0002 ppm

Cd 228.802 {447} (Axial)

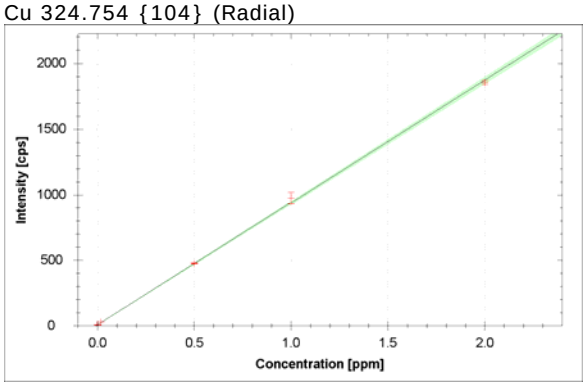


f(x) = 5968.8493*x + 4.4369
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0001 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

Cu 324.754 {104} (Radial)



f(x) = 932.6215*x + 6.8172
R^2 = 0.9993
BEC = 0.007 ppm
LoD = 0.0062 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

Standard readbacks

	STD1 14G16199 Concentration average	STD1 14G16199 Standard Concentration
Al 308.215 {109} (Radial)	0.100 ppm	0.100 ppm
B 249.678 {135} (Radial)	0.204 ppm	0.200 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.002 ppm
Ca 317.933 {106} (Radial)	0.516 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.115 ppm	0.100 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.530 ppm	0.500 ppm
Li 670.784 {50} (Radial)	0.016 ppm	0.015 ppm
Mg 279.079 {121} (Radial)	0.128 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.520 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.010 ppm
Ti 334.941 {101} (Radial)	0.010 ppm	0.010 ppm
V 292.402 {115} (Radial)	0.010 ppm	0.010 ppm
Co 228.616 {447} (Axial)	0.010 ppm	0.010 ppm
Ni 231.604 {446} (Axial)	0.020 ppm	0.020 ppm
Pb 220.353 {453} (Axial)	0.006 ppm	0.005 ppm
Sn 189.989 {478} (Axial)	0.019 ppm	0.020 ppm
Tl 190.856 {477} (Axial)	0.021 ppm	0.020 ppm
As 189.042 {478} (Axial)	0.020 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)	4.596 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.192 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.021 ppm	0.020 ppm
Se 196.090 {472} (Axial)	0.020 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)	96.515 %	
Y 224.306 {450} (Axial)	98.878 %	
In 230.606 {446} (Axial)	98.430 %	
Y 360.073 {94} (Axial)	97.530 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.031 ppm	0.030 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.005 ppm
Cu 324.754 {104} (Radial)	0.023 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)	0.501 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.505 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.578 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)	0.511 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.509 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.508 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.508 ppm	0.500 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	STD7 14J27631	STD7 14J27631
V 292.402 {115} (Radial)	0.501 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.490 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.487 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.492 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.478 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.493 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.484 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)	0.490 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.497 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.495 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.491 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.506 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.505 ppm	0.500 ppm
Y 360.073 {94} (Radial)	97.404 %	
Y 224.306 {450} (Axial)	99.320 %	
In 230.606 {446} (Axial)	97.735 %	
Y 360.073 {94} (Axial)	98.307 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.511 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.496 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.502 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)	1.043 ppm	1.000 ppm
Be 313.042 {108} (Radial)	1.040 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	1.190 ppm	1.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.097 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)	1.048 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.050 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	1.046 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	1.042 ppm	1.000 ppm
V 292.402 {115} (Radial)	1.044 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.989 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.992 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.004 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.975 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.003 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.983 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	1.025 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	1.022 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.913 ppm	1.000 ppm
Si 251.611 {134} (Axial)	1.000 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	1.001 ppm	1.000 ppm
Se 196.090 {472} (Axial)	1.002 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.004 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	1.020 ppm	1.000 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	STD2 14J08649	STD2 14J08649
Mn 257.610 {131} (Axial)	1.016 ppm	1.000 ppm
Y 360.073 {94} (Radial)	95.741 %	
Y 224.306 {450} (Axial)	99.616 %	
In 230.606 {446} (Axial)	97.026 %	
Y 360.073 {94} (Axial)	97.696 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.033 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	1.002 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	1.038 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)	1.978 ppm	2.000 ppm
Be 313.042 {108} (Radial)	1.979 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	1.965 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.956 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)	1.973 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.971 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	1.975 ppm	2.000 ppm
Ti 334.941 {101} (Radial)	1.977 ppm	2.000 ppm
V 292.402 {115} (Radial)	1.977 ppm	2.000 ppm
Co 228.616 {447} (Axial)	2.008 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.007 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.018 ppm	2.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	2.012 ppm	2.000 ppm
Ba 233.527 {445} (Axial)	2.024 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	1.989 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.921 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.004 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)	1.991 ppm	2.000 ppm
Y 360.073 {94} (Radial)	101.936 %	
Y 224.306 {450} (Axial)	101.295 %	
In 230.606 {446} (Axial)	96.889 %	
Y 360.073 {94} (Axial)	99.862 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.981 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	1.980 ppm	2.000 ppm

	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	10.151 ppm	10.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	

Comprehensive sample report

10/31/2014 7:46:52 AM

	STD4 14J27630	STD4 14J27630
Ca 317.933 {106} (Radial)	9.983 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.642 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	9.999 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	11.011 ppm	10.000 ppm
K 766.490 {44} (Radial)	10.296 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	10.338 ppm	10.000 ppm
Na 589.592 {57} (Radial)	9.999 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)	9.993 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	10.158 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)	101.504 %	
Y 224.306 {450} (Axial)	100.068 %	
In 230.606 {446} (Axial)	94.549 %	
Y 360.073 {94} (Axial)	97.894 %	
Na 818.326 {41} (Radial)	10.707 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)	250.886 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)	254.583 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	102.650 ppm	100.000 ppm
K 766.490 {44} (Radial)	50.067 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	251.816 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	

Comprehensive sample report

10/31/2014 7:46:52 AM

	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)	48.660 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)	94.673 %	
Y 224.306 {450} (Axial)	87.923 %	
In 230.606 {446} (Axial)	73.327 %	
Y 360.073 {94} (Axial)	86.117 %	
Na 818.326 {41} (Radial)	249.107 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)	499.554 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)	497.696 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	198.624 ppm	200.000 ppm
K 766.490 {44} (Radial)	99.937 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	499.085 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)	100.677 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)	94.016 %	
Y 224.306 {450} (Axial)	84.759 %	
In 230.606 {446} (Axial)	67.032 %	
Y 360.073 {94} (Axial)	82.771 %	

Comprehensive sample report

10/31/2014 7:46:52 AM

	STD6 14I24985	STD6 14I24985
Na 818.326 {41} (Radial)	500.432 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	

Comprehensive sample report

10/31/2014 7:46:52 AM

QTEGRA

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
ICB	QC	3	1	10
ICVLL 14G16199	QC	3	1	11
ICSA 14J10823	QC	3	1	12
ICSAB 14J10824	QC	3	1	13
BLANK WG750261	UNKNOWN	3	2	1
BLANK WG750261	UNKNOWN	3	2	1
LCS WG750261	UNKNOWN	3	2	2
LCSD WG750261	UNKNOWN	3	2	3
L729024-01 WG750261	UNKNOWN	3	2	4
SD L729024-01 WG750261	UNKNOWN	3	2	5
PS L729024-01 WG750261	UNKNOWN	3	2	6
MS L729024-01 WG750261	UNKNOWN	3	2	7
MSD L729024-01 WG750261	UNKNOWN	3	2	8
L729024-02 WG750261	UNKNOWN	3	2	9
L729024-04 WG750261	UNKNOWN	3	2	10
CCV	QC	3	2	11
CCB	QC	3	2	12
LCS WG750261	UNKNOWN	3	2	2
LCSD WG750261	UNKNOWN	3	2	3
L729024-05 WG750261	UNKNOWN	3	2	13
L729026-01 WG750261	UNKNOWN	3	2	14
L729026-02 WG750261	UNKNOWN	3	2	15
L729026-03 WG750261	UNKNOWN	3	2	16
L729026-05 WG750261	UNKNOWN	3	2	17
L729026-06 WG750261	UNKNOWN	3	2	18
L729030-01 WG750261	UNKNOWN	3	2	19
L729030-02 WG750261	UNKNOWN	3	2	20
L729030-04 WG750261	UNKNOWN	3	2	21
L729030-05 WG750261	UNKNOWN	3	2	22
CCV	QC	3	2	23
CCB	QC	3	2	24
L729032-01 WG750261	UNKNOWN	3	2	25
L729032-02 WG750261	UNKNOWN	3	2	26
L729032-04 WG750261	UNKNOWN	3	2	27
L729032-05 WG750261	UNKNOWN	3	2	28
L729032-06 WG750261	UNKNOWN	3	2	29
L729032-07 WG750261	UNKNOWN	3	2	30
L729078-01 WG750261	UNKNOWN	3	2	31
CCV	QC	3	2	35
CCB	QC	3	2	36
CCVLL	QC	3	2	37
BLANK WG750947	UNKNOWN	3	2	1
LCS WG750947	UNKNOWN	3	2	2
LCSD WG750947	UNKNOWN	3	2	3
L729557-05 WG750947	UNKNOWN	3	2	4

Comprehensive sample report

10/31/2014 7:46:52 AM

Label	Sample Type	Repeats	Rack	Vial
SD L729557-05 WG750947	UNKNOWN	3	2	5
PS L729557-05 WG750947	UNKNOWN	3	2	6
MS L729557-05 WG750947	UNKNOWN	3	2	7
MSD L729557-05 WG750947	UNKNOWN	3	2	8
L729557-01 WG750947	UNKNOWN	3	2	9
L729557-02 WG750947	UNKNOWN	3	2	10
CCV	QC	3	2	11
CCB	QC	3	2	12
L729557-03 WG750947	UNKNOWN	3	2	13
L729557-04 WG750947	UNKNOWN	3	2	14
L729557-06 WG750947	UNKNOWN	3	2	15
L729557-07 WG750947	UNKNOWN	3	2	16
L729557-13 WG750947	UNKNOWN	3	2	17
L729557-14 WG750947	UNKNOWN	3	2	18
L729561-02 WG750947	UNKNOWN	3	2	19
L729561-04 WG750947	UNKNOWN	3	2	20
L729561-06 WG750947	UNKNOWN	3	2	21
L729629-01 WG750947	UNKNOWN	3	2	22
CCV	QC	3	2	23
CCB	QC	3	2	24
L729629-02 WG750947	UNKNOWN	3	2	25
L729629-03 WG750947	UNKNOWN	3	2	26
L729629-04 WG750947	UNKNOWN	3	2	27
L729629-05 WG750947	UNKNOWN	3	2	28
L729629-06 WG750947	UNKNOWN	3	2	29
L729629-07 WG750947	UNKNOWN	3	2	30
L729629-08 WG750947	UNKNOWN	3	2	31
CCV	QC	3	2	35
CCB	QC	3	2	36
CCVLL	QC	3	2	37
CCVLL	QC	3	2	37
CCV	QC	3	2	35
ICSA 14J10823	QC	3	2	38
ICSAB 14J10824	QC	3	2	39

Start Time
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10/30/2014 12:44:14 PM
10/30/2014 12:48:42 PM
10/30/2014 12:52:57 PM
10/30/2014 12:57:08 PM
10/30/2014 1:01:13 PM
10/30/2014 1:05:38 PM
10/30/2014 1:10:11 PM
10/30/2014 1:14:45 PM
10/30/2014 1:18:55 PM
10/30/2014 1:24:27 PM
10/30/2014 1:28:57 PM
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10/30/2014 1:54:06 PM
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10/30/2014 2:02:35 PM

Comprehensive sample report

10/31/2014 7:46:52 AM

Start Time
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Comprehensive sample report

10/31/2014 7:46:52 AM

Start Time
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Comprehensive sample report

10/31/2014 7:46:52 AM

CALBLK

Sample Type BLK Analysis Date 10/30/2014 12:39:46 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	0.2 %	0.7 %	-0.5 %	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 %	0.1 %	0.4 %	0.0 %
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	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1.0 %	-1.1 %	0.8 %	-0.4 %
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	0.000 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	-1.6 %	1.2 %	-2.1 %	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	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	-0.8 %	0.1 %	-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	0.000 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 %	0.2 %	0.1 %	0.0 %
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	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	1.1 %	-0.3 %	-0.7 %	0.2 %
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	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration RSD	0.1 %			
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	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 %	-8.7 %	0.1 %
Concentration SD		0.1 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	7 cps	3 cps	-3 cps	50 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	15 cps	15 cps	2 cps	64 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	17 cps	0 cps	7 cps	-7 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	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	2 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	3 cps	3 cps	8 cps	22 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	-7 cps	19 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	11 cps	6,414 cps	11,501 cps	3,843 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	172,627 cps	-152 cps	0 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

STD1 14G16199

Sample Type STD Analysis Date 10/30/2014 12:44:14 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	0.100 ppm	0.204 ppm	0.002 ppm	0.516 ppm
Concentration per Run 1	0.082 ppm	0.206 ppm	0.002 ppm	0.525 ppm
Concentration per Run 2	0.119 ppm	0.203 ppm	0.002 ppm	0.508 ppm
Concentration per Run 3	0.098 ppm	0.203 ppm	0.002 ppm	0.513 ppm
Concentration RSD	18.7 %	0.9 %	2.4 %	1.7 %
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	0.115 ppm	0.000 ppm	0.530 ppm
Concentration per Run 1	0.000 ppm	0.117 ppm	0.000 ppm	0.545 ppm
Concentration per Run 2	0.000 ppm	0.113 ppm	0.000 ppm	0.518 ppm
Concentration per Run 3	0.000 ppm	0.115 ppm	0.000 ppm	0.526 ppm
Concentration RSD		1.5 %		2.7 %
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	0.128 ppm	0.520 ppm	0.010 ppm
Concentration per Run 1	0.018 ppm	0.128 ppm	0.527 ppm	0.011 ppm
Concentration per Run 2	0.016 ppm	0.146 ppm	0.514 ppm	0.010 ppm
Concentration per Run 3	0.014 ppm	0.110 ppm	0.520 ppm	0.010 ppm
Concentration RSD	12.3 %	14.3 %	1.2 %	2.3 %
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	0.010 ppm	0.010 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	0.010 ppm	0.012 ppm	0.010 ppm	0.020 ppm
Concentration per Run 3	0.011 ppm	0.007 ppm	0.010 ppm	0.019 ppm
Concentration RSD	5.8 %	27.6 %	0.7 %	1.0 %
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	0.006 ppm	0.019 ppm	0.021 ppm	0.020 ppm
Concentration per Run 1	0.005 ppm	0.019 ppm	0.022 ppm	0.020 ppm
Concentration per Run 2	0.006 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 3	0.006 ppm	0.019 ppm	0.022 ppm	0.020 ppm
Concentration RSD	13.0 %	1.1 %	5.9 %	2.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	4.596 ppm	0.192 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.597 ppm	0.193 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.608 ppm	0.194 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.582 ppm	0.189 ppm
Concentration RSD	1.3 %	3.2 %	0.3 %	1.2 %
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	0.021 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.022 ppm	0.019 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.021 ppm	0.022 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.019 ppm	0.021 ppm	0.010 ppm	0.010 ppm
Concentration RSD	7.9 %	7.1 %	3.3 %	3.2 %
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	0.011 ppm	96.515 %	98.878 %	98.430 %
Concentration per Run 1	0.011 ppm	95.412 %	98.711 %	98.439 %
Concentration per Run 2	0.011 ppm	96.854 %	98.718 %	98.152 %
Concentration per Run 3	0.010 ppm	97.278 %	99.205 %	98.698 %
Concentration RSD	0.9 %			
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	97.530 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration per Run 1	97.382 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration per Run 2	97.579 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration per Run 3	97.629 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration RSD			0.7 %	2.5 %
Concentration SD			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	0.023 ppm
Concentration per Run 3	0.023 ppm
Concentration RSD	2.6 %
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	13 cps	78 cps	42 cps	402 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	137 cps	73 cps	3 cps	368 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	231 cps	8 cps	1,080 cps	397 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	28 cps	9 cps	38 cps	58 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	5 cps	25 cps	12 cps	7 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	46 cps	26 cps	1,239 cps	543 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	15 cps	6 cps	89 cps	92 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	613 cps	6,190 cps	11,372 cps	3,783 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	168,363 cps	-112 cps	142 cps	36 cps

	Cu 324.754 {104} (Radial)
Intensity average	27 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

STD7 14J27631

Sample Type STD Analysis Date 10/30/2014 12:48:42 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	0.000 ppm	0.501 ppm	0.505 ppm	0.578 ppm
Concentration per Run 1	0.000 ppm	0.502 ppm	0.510 ppm	0.583 ppm
Concentration per Run 2	0.000 ppm	0.505 ppm	0.505 ppm	0.578 ppm
Concentration per Run 3	0.000 ppm	0.497 ppm	0.501 ppm	0.573 ppm
Concentration RSD		0.8 %	0.9 %	0.9 %
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	0.511 ppm	0.000 ppm	0.509 ppm	0.508 ppm
Concentration per Run 1	0.516 ppm	0.000 ppm	0.511 ppm	0.513 ppm
Concentration per Run 2	0.508 ppm	0.000 ppm	0.508 ppm	0.506 ppm
Concentration per Run 3	0.509 ppm	0.000 ppm	0.509 ppm	0.507 ppm
Concentration RSD	0.8 %		0.2 %	0.8 %
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	0.508 ppm	0.501 ppm	0.490 ppm	0.487 ppm
Concentration per Run 1	0.514 ppm	0.509 ppm	0.490 ppm	0.488 ppm
Concentration per Run 2	0.507 ppm	0.499 ppm	0.488 ppm	0.486 ppm
Concentration per Run 3	0.504 ppm	0.496 ppm	0.492 ppm	0.489 ppm
Concentration RSD	1.0 %	1.3 %	0.4 %	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	0.478 ppm	0.493 ppm	0.484 ppm
Concentration per Run 1	0.494 ppm	0.478 ppm	0.495 ppm	0.482 ppm
Concentration per Run 2	0.489 ppm	0.476 ppm	0.492 ppm	0.486 ppm
Concentration per Run 3	0.494 ppm	0.481 ppm	0.492 ppm	0.484 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

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	0.490 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.485 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.491 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.493 ppm
Concentration RSD				0.8 %
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	0.497 ppm	0.495 ppm	0.491 ppm	0.506 ppm
Concentration per Run 1	0.496 ppm	0.496 ppm	0.487 ppm	0.502 ppm
Concentration per Run 2	0.498 ppm	0.495 ppm	0.496 ppm	0.510 ppm
Concentration per Run 3	0.498 ppm	0.495 ppm	0.492 ppm	0.508 ppm
Concentration RSD	0.2 %	0.1 %	0.9 %	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	0.505 ppm	97.404 %	99.320 %	97.735 %
Concentration per Run 1	0.501 ppm	96.246 %	99.070 %	97.542 %
Concentration per Run 2	0.507 ppm	97.462 %	99.159 %	97.748 %
Concentration per Run 3	0.506 ppm	98.503 %	99.730 %	97.914 %
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	98.307 %	0.000 ppm	0.511 ppm	0.496 ppm
Concentration per Run 1	99.015 %	0.000 ppm	0.511 ppm	0.497 ppm
Concentration per Run 2	97.854 %	0.000 ppm	0.510 ppm	0.496 ppm
Concentration per Run 3	98.052 %	0.000 ppm	0.513 ppm	0.495 ppm
Concentration RSD			0.3 %	0.2 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.502 ppm
Concentration per Run 1	0.502 ppm
Concentration per Run 2	0.506 ppm
Concentration per Run 3	0.499 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	39 cps	190 cps	10,471 cps	448 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	157 cps	303 cps	19 cps	375 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	7,013 cps	36 cps	1,067 cps	19,771 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,439 cps	340 cps	1,874 cps	1,385 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	484 cps	580 cps	354 cps	223 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	4,219 cps	2,243 cps	128 cps	1,362 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	336 cps	193 cps	4,689 cps	3,758 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	29,031 cps	6,247 cps	11,423 cps	3,756 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	169,705 cps	-110 cps	2,347 cps	2,946 cps

	Cu 324.754 {104} (Radial)
Intensity average	463 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

STD2 14J08649

Sample Type STD Analysis Date 10/30/2014 12:52:57 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	1.043 ppm	1.040 ppm	1.190 ppm
Concentration per Run 1	0.000 ppm	1.089 ppm	1.092 ppm	1.249 ppm
Concentration per Run 2	0.000 ppm	1.040 ppm	1.030 ppm	1.181 ppm
Concentration per Run 3	0.000 ppm	1.002 ppm	0.997 ppm	1.141 ppm
Concentration RSD		4.2 %	4.7 %	4.6 %
Concentration SD		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	0.000 ppm	1.097 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.159 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.087 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.047 ppm	0.000 ppm	0.000 ppm
Concentration RSD		5.2 %		
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	1.048 ppm	0.000 ppm	1.050 ppm	1.046 ppm
Concentration per Run 1	1.100 ppm	0.000 ppm	1.098 ppm	1.099 ppm
Concentration per Run 2	1.038 ppm	0.000 ppm	1.040 ppm	1.036 ppm
Concentration per Run 3	1.007 ppm	0.000 ppm	1.014 ppm	1.003 ppm
Concentration RSD	4.5 %		4.1 %	4.7 %
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	1.042 ppm	1.044 ppm	0.989 ppm	0.992 ppm
Concentration per Run 1	1.098 ppm	1.086 ppm	0.995 ppm	0.997 ppm
Concentration per Run 2	1.029 ppm	1.044 ppm	0.989 ppm	0.991 ppm
Concentration per Run 3	1.000 ppm	1.003 ppm	0.984 ppm	0.989 ppm
Concentration RSD	4.8 %	3.9 %	0.5 %	0.4 %
Concentration SD	0.1 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	0.975 ppm	1.003 ppm	0.983 ppm
Concentration per Run 1	1.006 ppm	0.979 ppm	1.008 ppm	0.985 ppm
Concentration per Run 2	1.004 ppm	0.973 ppm	1.003 ppm	0.983 ppm
Concentration per Run 3	1.001 ppm	0.974 ppm	1.000 ppm	0.981 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.025 ppm	1.022 ppm	0.913 ppm	1.000 ppm
Concentration per Run 1	1.029 ppm	1.024 ppm	0.916 ppm	1.012 ppm
Concentration per Run 2	1.025 ppm	1.021 ppm	0.915 ppm	0.988 ppm
Concentration per Run 3	1.021 ppm	1.021 ppm	0.908 ppm	0.999 ppm
Concentration RSD	0.4 %	0.2 %	0.5 %	1.2 %
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	1.001 ppm	1.002 ppm	1.004 ppm	1.020 ppm
Concentration per Run 1	1.004 ppm	1.007 ppm	1.015 ppm	1.034 ppm
Concentration per Run 2	0.998 ppm	0.995 ppm	0.997 ppm	1.012 ppm
Concentration per Run 3	1.003 ppm	1.005 ppm	1.001 ppm	1.015 ppm
Concentration RSD	0.3 %	0.7 %	0.9 %	1.2 %
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	1.016 ppm	95.741 %	99.616 %	97.026 %
Concentration per Run 1	1.027 ppm	91.799 %	99.371 %	96.720 %
Concentration per Run 2	1.008 ppm	96.659 %	99.697 %	97.064 %
Concentration per Run 3	1.013 ppm	98.766 %	99.782 %	97.294 %
Concentration RSD	1.0 %			
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	97.696 %	0.000 ppm	1.033 ppm	1.002 ppm
Concentration per Run 1	96.787 %	0.000 ppm	1.038 ppm	1.004 ppm
Concentration per Run 2	98.185 %	0.000 ppm	1.034 ppm	1.002 ppm
Concentration per Run 3	98.116 %	0.000 ppm	1.027 ppm	1.000 ppm
Concentration RSD			0.6 %	0.2 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.038 ppm
Concentration per Run 1	1.095 ppm
Concentration per Run 2	1.021 ppm
Concentration per Run 3	0.998 ppm
Concentration RSD	4.9 %
Concentration SD	0.1 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	68 cps	385 cps	21,168 cps	856 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	309 cps	565 cps	37 cps	676 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	14,113 cps	70 cps	2,154 cps	39,947 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,900 cps	692 cps	3,761 cps	2,798 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	980 cps	1,172 cps	719 cps	457 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	8,417 cps	4,460 cps	254 cps	2,741 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	679 cps	393 cps	9,530 cps	7,509 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	58,079 cps	6,141 cps	11,457 cps	3,729 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	168,649 cps	-45 cps	4,754 cps	5,962 cps

	Cu 324.754 {104} (Radial)
Intensity average	932 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

STD3 14J06521

Sample Type STD Analysis Date 10/30/2014 12:57:08 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	1.978 ppm	1.979 ppm	1.965 ppm
Concentration per Run 1	0.000 ppm	1.959 ppm	1.958 ppm	1.947 ppm
Concentration per Run 2	0.000 ppm	1.997 ppm	1.981 ppm	1.968 ppm
Concentration per Run 3	0.000 ppm	1.977 ppm	1.997 ppm	1.982 ppm
Concentration RSD		1.0 %	1.0 %	0.9 %
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	1.956 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.930 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.963 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.975 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.2 %		
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	1.973 ppm	0.000 ppm	1.971 ppm	1.975 ppm
Concentration per Run 1	1.948 ppm	0.000 ppm	1.950 ppm	1.955 ppm
Concentration per Run 2	1.979 ppm	0.000 ppm	1.977 ppm	1.980 ppm
Concentration per Run 3	1.992 ppm	0.000 ppm	1.988 ppm	1.989 ppm
Concentration RSD	1.1 %		1.0 %	0.9 %
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	1.977 ppm	1.977 ppm	2.008 ppm	2.007 ppm
Concentration per Run 1	1.952 ppm	1.951 ppm	2.000 ppm	2.000 ppm
Concentration per Run 2	1.983 ppm	1.987 ppm	2.002 ppm	2.003 ppm
Concentration per Run 3	1.996 ppm	1.995 ppm	2.022 ppm	2.018 ppm
Concentration RSD	1.2 %	1.2 %	0.6 %	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	2.018 ppm	0.000 ppm	2.012 ppm
Concentration per Run 1	0.000 ppm	2.012 ppm	0.000 ppm	1.997 ppm
Concentration per Run 2	0.000 ppm	2.008 ppm	0.000 ppm	2.009 ppm
Concentration per Run 3	0.000 ppm	2.033 ppm	0.000 ppm	2.032 ppm
Concentration RSD		0.7 %		0.9 %
Concentration SD		0.0 ppm		0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	2.024 ppm	1.989 ppm	1.921 ppm	2.004 ppm
Concentration per Run 1	2.015 ppm	1.980 ppm	1.913 ppm	2.005 ppm
Concentration per Run 2	2.020 ppm	1.984 ppm	1.915 ppm	2.004 ppm
Concentration per Run 3	2.038 ppm	2.003 ppm	1.936 ppm	2.002 ppm
Concentration RSD	0.6 %	0.6 %	0.7 %	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	1.986 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	1.985 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	1.994 ppm
Concentration RSD				0.2 %
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	1.991 ppm	101.936 %	101.295 %	96.889 %
Concentration per Run 1	1.988 ppm	102.902 %	101.579 %	97.103 %
Concentration per Run 2	1.993 ppm	101.535 %	101.508 %	97.121 %
Concentration per Run 3	1.992 ppm	101.371 %	100.799 %	96.442 %
Concentration RSD	0.1 %			
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	99.862 %	0.000 ppm	1.981 ppm	0.000 ppm
Concentration per Run 1	99.960 %	0.000 ppm	1.974 ppm	0.000 ppm
Concentration per Run 2	99.816 %	0.000 ppm	1.978 ppm	0.000 ppm
Concentration per Run 3	99.810 %	0.000 ppm	1.990 ppm	0.000 ppm
Concentration RSD			0.4 %	
Concentration SD			0.0 ppm	

	Cu 324.754 {104} (Radial)
Concentration average	1.980 ppm
Concentration per Run 1	1.966 ppm
Concentration per Run 2	1.980 ppm
Concentration per Run 3	1.996 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	131 cps	775 cps	42,950 cps	1,474 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	528 cps	1,061 cps	71 cps	1,292 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	28,298 cps	144 cps	4,303 cps	80,401 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	5,864 cps	1,393 cps	7,621 cps	5,648 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	2,034 cps	2,420 cps	1,520 cps	954 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	16,898 cps	8,826 cps	535 cps	5,595 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,416 cps	828 cps	19,878 cps	14,940 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	116,333 cps	6,538 cps	11,650 cps	3,723 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	172,389 cps	85 cps	9,269 cps	12,419 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,890 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

STD4 14J27630

Sample Type STD Analysis Date 10/30/2014 1:01:13 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	10.151 ppm	0.000 ppm	0.000 ppm	9.983 ppm
Concentration per Run 1	10.090 ppm	0.000 ppm	0.000 ppm	9.985 ppm
Concentration per Run 2	10.123 ppm	0.000 ppm	0.000 ppm	9.958 ppm
Concentration per Run 3	10.241 ppm	0.000 ppm	0.000 ppm	10.007 ppm
Concentration RSD	0.8 %			0.2 %
Concentration SD	0.1 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	10.642 ppm	9.999 ppm	11.011 ppm	10.296 ppm
Concentration per Run 1	10.633 ppm	9.957 ppm	11.125 ppm	10.224 ppm
Concentration per Run 2	10.646 ppm	9.998 ppm	10.910 ppm	10.348 ppm
Concentration per Run 3	10.647 ppm	10.042 ppm	10.997 ppm	10.317 ppm
Concentration RSD	0.1 %	0.4 %	1.0 %	0.6 %
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	0.000 ppm	10.338 ppm	9.999 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	10.369 ppm	9.948 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	10.323 ppm	10.007 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	10.321 ppm	10.043 ppm	0.000 ppm
Concentration RSD		0.3 %	0.5 %	
Concentration SD		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	0.000 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				

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	9.993 ppm	0.000 ppm	10.158 ppm	0.000 ppm
Concentration per Run 1	9.983 ppm	0.000 ppm	10.154 ppm	0.000 ppm
Concentration per Run 2	9.997 ppm	0.000 ppm	10.157 ppm	0.000 ppm
Concentration per Run 3	9.999 ppm	0.000 ppm	10.162 ppm	0.000 ppm
Concentration RSD	0.1 %		0.0 %	
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	101.504 %	100.068 %	94.549 %
Concentration per Run 1	0.000 ppm	101.502 %	100.090 %	94.679 %
Concentration per Run 2	0.000 ppm	101.743 %	100.025 %	94.385 %
Concentration per Run 3	0.000 ppm	101.267 %	100.090 %	94.581 %
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	97.894 %	10.707 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	98.330 %	10.746 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	97.475 %	10.622 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	97.878 %	10.752 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.7 %		
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	644 cps	0 cps	2 cps	7,248 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	2,614 cps	5,339 cps	328 cps	6,342 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	23 cps	752 cps	21,705 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	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	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	82,405 cps	2 cps	2,761 cps	28,027 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	3 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	38 cps	6,510 cps	11,509 cps	3,633 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	168,992 cps	885 cps	4 cps	-11 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

STD5 14J08650

Sample Type STD Analysis Date 10/30/2014 1:05:38 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	250.886 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	250.870 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	251.731 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	250.057 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.3 %			
Concentration SD	0.8 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	254.583 ppm	0.000 ppm	102.650 ppm	50.067 ppm
Concentration per Run 1	255.189 ppm	0.000 ppm	102.922 ppm	49.925 ppm
Concentration per Run 2	255.302 ppm	0.000 ppm	103.292 ppm	50.240 ppm
Concentration per Run 3	253.256 ppm	0.000 ppm	101.737 ppm	50.037 ppm
Concentration RSD	0.5 %		0.8 %	0.3 %
Concentration SD	1.1 ppm		0.8 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	251.816 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	252.623 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	252.781 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	250.045 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.6 %		
Concentration SD		1.5 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				

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	48.660 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	48.503 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	48.739 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	48.737 ppm	0.000 ppm
Concentration RSD			0.3 %	
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	94.673 %	87.923 %	73.327 %
Concentration per Run 1	0.000 ppm	94.522 %	88.108 %	73.447 %
Concentration per Run 2	0.000 ppm	94.367 %	87.932 %	73.331 %
Concentration per Run 3	0.000 ppm	95.129 %	87.729 %	73.203 %
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	86.117 %	249.107 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	85.931 %	248.969 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	86.598 %	249.549 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	85.822 %	248.805 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.2 %		
Concentration SD		0.4 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	14,677 cps	3 cps	0 cps	155,569 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	58,008 cps	45,422 cps	2,837 cps	28,529 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	63 cps	17,088 cps	458,760 cps	138 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	43 cps	3 cps	3 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	-13 cps	2 cps	-1 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	12 cps	2 cps	11,594 cps	27 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	17 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	311 cps	6,072 cps	10,112 cps	2,818 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	148,661 cps	22,415 cps	11 cps	-5 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

STD6 14I24985

Sample Type STD Analysis Date 10/30/2014 1:10:11 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	499.554 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	503.349 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	495.020 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	500.292 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.8 %			
Concentration SD	4.2 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	497.696 ppm	0.000 ppm	198.624 ppm	99.937 ppm
Concentration per Run 1	503.354 ppm	0.000 ppm	201.056 ppm	101.026 ppm
Concentration per Run 2	492.035 ppm	0.000 ppm	196.699 ppm	98.827 ppm
Concentration per Run 3	497.698 ppm	0.000 ppm	198.118 ppm	99.957 ppm
Concentration RSD	1.1 %		1.1 %	1.1 %
Concentration SD	5.7 ppm		2.2 ppm	1.1 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	499.085 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	506.494 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	492.992 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	497.769 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.4 %		
Concentration SD		6.8 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				

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	100.677 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	100.646 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	101.031 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	100.354 ppm	0.000 ppm
Concentration RSD			0.3 %	
Concentration SD			0.3 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	94.016 %	84.759 %	67.032 %
Concentration per Run 1	0.000 ppm	92.916 %	84.924 %	67.091 %
Concentration per Run 2	0.000 ppm	95.071 %	84.647 %	66.943 %
Concentration per Run 3	0.000 ppm	94.061 %	84.707 %	67.062 %
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	82.771 %	500.432 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	82.744 %	505.831 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	82.400 %	495.603 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	83.170 %	499.863 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.0 %		
Concentration SD		5.1 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	29,014 cps	0 cps	1 cps	297,033 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	112,594 cps	85,940 cps	5,449 cps	56,486 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	87 cps	33,631 cps	834,636 cps	287 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	46 cps	3 cps	7 cps	-29 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-24 cps	1 cps	0 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	16 cps	2 cps	23,117 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	-2 cps	2 cps	-10 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	557 cps	6,030 cps	9,748 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	142,886 cps	44,858 cps	20 cps	-14 cps

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

ICV 14I23903

Sample Type QC Analysis Date 10/30/2014 1:14:45 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	10.086 ppm	0.990 ppm	1.001 ppm	9.876 ppm
Concentration per Run 1	10.085 ppm	0.992 ppm	1.006 ppm	9.858 ppm
Concentration per Run 2	10.107 ppm	0.990 ppm	0.999 ppm	9.897 ppm
Concentration per Run 3	10.066 ppm	0.987 ppm	0.999 ppm	9.872 ppm
Concentration RSD	0.2 %	0.3 %	0.4 %	0.2 %
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	10.593 ppm	9.923 ppm	11.001 ppm	10.103 ppm
Concentration per Run 1	10.617 ppm	9.920 ppm	11.064 ppm	10.142 ppm
Concentration per Run 2	10.605 ppm	9.943 ppm	11.048 ppm	10.096 ppm
Concentration per Run 3	10.556 ppm	9.905 ppm	10.890 ppm	10.070 ppm
Concentration RSD	0.3 %	0.2 %	0.9 %	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	1.004 ppm	10.067 ppm	10.024 ppm	0.401 ppm
Concentration per Run 1	1.012 ppm	10.021 ppm	10.070 ppm	0.404 ppm
Concentration per Run 2	1.001 ppm	10.077 ppm	10.034 ppm	0.400 ppm
Concentration per Run 3	0.998 ppm	10.102 ppm	9.967 ppm	0.398 ppm
Concentration RSD	0.7 %	0.4 %	0.5 %	0.7 %
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	1.051 ppm	0.996 ppm	1.004 ppm	0.999 ppm
Concentration per Run 1	1.054 ppm	0.995 ppm	1.005 ppm	0.999 ppm
Concentration per Run 2	1.052 ppm	0.997 ppm	1.004 ppm	0.997 ppm
Concentration per Run 3	1.047 ppm	0.995 ppm	1.004 ppm	1.000 ppm
Concentration RSD	0.3 %	0.1 %	0.1 %	0.2 %
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	0.997 ppm	1.039 ppm	0.989 ppm	0.996 ppm
Concentration per Run 1	0.999 ppm	1.041 ppm	0.986 ppm	0.999 ppm
Concentration per Run 2	0.997 ppm	1.037 ppm	0.989 ppm	0.993 ppm
Concentration per Run 3	0.995 ppm	1.039 ppm	0.993 ppm	0.997 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.021 ppm	1.089 ppm	0.002 ppm	1.019 ppm
Concentration per Run 1	1.023 ppm	1.091 ppm	0.004 ppm	1.019 ppm
Concentration per Run 2	1.019 ppm	1.088 ppm	0.003 ppm	1.015 ppm
Concentration per Run 3	1.021 ppm	1.088 ppm	0.000 ppm	1.024 ppm
Concentration RSD	0.2 %	0.1 %	92.2 %	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	1.062 ppm	1.020 ppm	0.104 ppm	1.015 ppm
Concentration per Run 1	1.063 ppm	1.023 ppm	0.104 ppm	1.018 ppm
Concentration per Run 2	1.062 ppm	1.017 ppm	0.105 ppm	1.009 ppm
Concentration per Run 3	1.062 ppm	1.021 ppm	0.104 ppm	1.019 ppm
Concentration RSD	0.1 %	0.3 %	0.7 %	0.6 %
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	1.014 ppm	96.904 %	96.500 %	91.878 %
Concentration per Run 1	1.016 ppm	97.805 %	96.365 %	91.714 %
Concentration per Run 2	1.010 ppm	96.001 %	96.582 %	92.014 %
Concentration per Run 3	1.016 ppm	96.908 %	96.554 %	91.906 %
Concentration RSD	0.4 %	0.9 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.9 %	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	95.012 %	10.188 ppm	1.001 ppm	1.005 ppm
Concentration per Run 1	94.669 %	10.308 ppm	1.004 ppm	1.007 ppm
Concentration per Run 2	95.394 %	10.100 ppm	1.000 ppm	1.004 ppm
Concentration per Run 3	94.974 %	10.156 ppm	0.999 ppm	1.005 ppm
Concentration RSD	0.4 %	1.1 %	0.2 %	0.2 %
Concentration SD	0.4 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.991 ppm
Concentration per Run 1	0.990 ppm
Concentration per Run 2	0.989 ppm
Concentration per Run 3	0.993 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	611 cps	370 cps	20,658 cps	6,846 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	2,484 cps	5,058 cps	313 cps	5,942 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	13,693 cps	699 cps	20,772 cps	15,508 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,964 cps	668 cps	3,615 cps	2,666 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	922 cps	1,183 cps	671 cps	449 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	8,122 cps	4,604 cps	8 cps	2,717 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	697 cps	388 cps	955 cps	7,267 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	56,386 cps	6,215 cps	11,098 cps	3,531 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	164,017 cps	797 cps	4,462 cps	5,794 cps

	Cu 324.754 {104} (Radial)
Intensity average	902 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type QC Analysis Date 10/30/2014 1:18:55 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	0.018 ppm	-0.005 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.051 ppm	-0.012 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.043 ppm	-0.008 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.046 ppm	0.005 ppm	0.000 ppm	0.000 ppm
Concentration RSD	295.0 %	184.2 %	18.4 %	29.6 %
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	-0.002 ppm	0.003 ppm	-0.050 ppm	0.005 ppm
Concentration per Run 1	0.008 ppm	0.002 ppm	-0.011 ppm	0.055 ppm
Concentration per Run 2	-0.002 ppm	0.004 ppm	-0.054 ppm	-0.012 ppm
Concentration per Run 3	-0.013 ppm	0.003 ppm	-0.085 ppm	-0.029 ppm
Concentration RSD	449.7 %	25.0 %	74.3 %	912.2 %
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	0.001 ppm	-0.004 ppm	0.008 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.002 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.017 ppm	0.011 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.006 ppm	0.009 ppm	0.000 ppm
Concentration RSD	170.1 %	278.7 %	63.4 %	319.1 %
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	0.000 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.005 ppm	0.000 ppm	0.000 ppm
Concentration RSD	167.0 %	415.5 %	266.7 %	72.7 %
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	0.001 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration RSD	361.3 %	1,973.3 %	847.2 %	49.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	-0.014 ppm	-0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.015 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.014 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.014 ppm	-0.003 ppm
Concentration RSD	238.2 %	81.4 %	4.2 %	146.7 %
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	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.000 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	130.4 %	318.0 %	459.1 %	101.5 %
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	98.340 %	99.696 %	99.474 %
Concentration per Run 1	0.000 ppm	98.252 %	99.543 %	99.284 %
Concentration per Run 2	0.000 ppm	98.152 %	99.885 %	99.654 %
Concentration per Run 3	0.000 ppm	98.617 %	99.661 %	99.486 %
Concentration RSD	64.6 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.2 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.939 %	-0.168 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	98.720 %	-0.049 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	98.850 %	-0.251 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	99.248 %	-0.203 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.3 %	62.9 %	438.8 %	1,979.9 %
Concentration SD	0.3 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.003 ppm
Concentration per Run 2	-0.004 ppm
Concentration per Run 3	0.001 ppm
Concentration RSD	1,112.1 %
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	8 cps	1 cps	0 cps	49 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	17 cps	1 cps	65 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	24 cps	-1 cps	23 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	0 cps	2 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	2 cps	-4 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	3 cps	3 cps	4 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	-1 cps	-6 cps	16 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	17 cps	6,308 cps	11,466 cps	3,823 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	170,796 cps	-165 cps	0 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type QC Analysis Date 10/30/2014 1:24:27 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	0.090 ppm	0.193 ppm	0.002 ppm	0.528 ppm
Concentration per Run 1	0.086 ppm	0.193 ppm	0.002 ppm	0.541 ppm
Concentration per Run 2	0.083 ppm	0.202 ppm	0.002 ppm	0.545 ppm
Concentration per Run 3	0.100 ppm	0.185 ppm	0.002 ppm	0.497 ppm
Concentration RSD	9.9 %	4.5 %	5.5 %	5.0 %
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	0.556 ppm	0.103 ppm	0.086 ppm	0.513 ppm
Concentration per Run 1	0.577 ppm	0.105 ppm	0.151 ppm	0.536 ppm
Concentration per Run 2	0.564 ppm	0.109 ppm	0.081 ppm	0.524 ppm
Concentration per Run 3	0.526 ppm	0.096 ppm	0.025 ppm	0.479 ppm
Concentration RSD	4.7 %	6.4 %	73.4 %	5.9 %
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	0.016 ppm	0.096 ppm	0.528 ppm	0.010 ppm
Concentration per Run 1	0.016 ppm	0.094 ppm	0.544 ppm	0.010 ppm
Concentration per Run 2	0.017 ppm	0.102 ppm	0.544 ppm	0.010 ppm
Concentration per Run 3	0.015 ppm	0.092 ppm	0.495 ppm	0.009 ppm
Concentration RSD	7.2 %	5.9 %	5.3 %	5.3 %
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	0.010 ppm	0.008 ppm	0.010 ppm	0.022 ppm
Concentration per Run 1	0.010 ppm	0.010 ppm	0.010 ppm	0.021 ppm
Concentration per Run 2	0.010 ppm	0.006 ppm	0.010 ppm	0.022 ppm
Concentration per Run 3	0.011 ppm	0.008 ppm	0.010 ppm	0.022 ppm
Concentration RSD	3.7 %	22.6 %	0.9 %	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	0.006 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 1	0.006 ppm	0.019 ppm	0.021 ppm	0.020 ppm
Concentration per Run 2	0.006 ppm	0.019 ppm	0.021 ppm	0.022 ppm
Concentration per Run 3	0.005 ppm	0.019 ppm	0.019 ppm	0.020 ppm
Concentration RSD	11.2 %	2.2 %	6.0 %	5.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	4.511 ppm	0.187 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.519 ppm	0.188 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.504 ppm	0.186 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.511 ppm	0.187 ppm
Concentration RSD	0.6 %	4.1 %	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	0.020 ppm	0.019 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.019 ppm	0.017 ppm	0.010 ppm	0.011 ppm
Concentration per Run 2	0.021 ppm	0.019 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.020 ppm	0.021 ppm	0.010 ppm	0.010 ppm
Concentration RSD	3.4 %	9.5 %	1.7 %	3.2 %
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	0.011 ppm	98.854 %	99.569 %	99.025 %
Concentration per Run 1	0.010 ppm	96.682 %	99.752 %	99.118 %
Concentration per Run 2	0.011 ppm	96.515 %	99.598 %	98.924 %
Concentration per Run 3	0.011 ppm	103.364 %	99.357 %	99.032 %
Concentration RSD	0.3 %	4.0 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	3.9 %	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	98.565 %	0.402 ppm	0.034 ppm	0.005 ppm
Concentration per Run 1	98.834 %	0.467 ppm	0.034 ppm	0.005 ppm
Concentration per Run 2	98.646 %	0.297 ppm	0.034 ppm	0.005 ppm
Concentration per Run 3	98.216 %	0.441 ppm	0.034 ppm	0.005 ppm
Concentration RSD	0.3 %	22.8 %	0.5 %	0.5 %
Concentration SD	0.3 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.023 ppm
Concentration per Run 1	0.021 ppm
Concentration per Run 2	0.023 ppm
Concentration per Run 3	0.024 ppm
Concentration RSD	6.0 %
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	13 cps	76 cps	40 cps	419 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	147 cps	69 cps	4 cps	367 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	238 cps	6 cps	1,121 cps	386 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	28 cps	8 cps	38 cps	65 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	5 cps	25 cps	12 cps	7 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	46 cps	26 cps	1,225 cps	535 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	15 cps	6 cps	91 cps	94 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	618 cps	6,341 cps	11,451 cps	3,805 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	170,150 cps	-112 cps	157 cps	36 cps

	Cu 324.754 {104} (Radial)
Intensity average	28 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

ICSA 14J10823

Sample Type QC Analysis Date 10/30/2014 1:28:57 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	494.435 ppm	-0.003 ppm	0.000 ppm	444.821 ppm
Concentration per Run 1	493.519 ppm	-0.007 ppm	0.000 ppm	445.592 ppm
Concentration per Run 2	494.471 ppm	-0.003 ppm	0.000 ppm	442.712 ppm
Concentration per Run 3	495.314 ppm	0.002 ppm	0.000 ppm	446.158 ppm
Concentration RSD	0.2 %	168.8 %	96.8 %	0.4 %
Concentration SD	0.9 ppm	0.0 ppm	0.0 ppm	1.8 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	497.600 ppm	173.967 ppm	198.621 ppm	0.008 ppm
Concentration per Run 1	498.104 ppm	174.241 ppm	199.268 ppm	0.025 ppm
Concentration per Run 2	495.772 ppm	173.166 ppm	197.930 ppm	0.019 ppm
Concentration per Run 3	498.926 ppm	174.496 ppm	198.665 ppm	-0.021 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	329.2 %
Concentration SD	1.6 ppm	0.7 ppm	0.7 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	0.003 ppm	509.933 ppm	0.028 ppm	0.007 ppm
Concentration per Run 1	0.003 ppm	511.186 ppm	0.025 ppm	0.008 ppm
Concentration per Run 2	0.003 ppm	506.614 ppm	0.027 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	511.999 ppm	0.032 ppm	0.008 ppm
Concentration RSD	9.7 %	0.6 %	12.3 %	2.5 %
Concentration SD	0.0 ppm	2.9 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	-0.004 ppm	0.001 ppm	0.001 ppm	-0.017 ppm
Concentration per Run 1	-0.005 ppm	0.000 ppm	0.002 ppm	-0.017 ppm
Concentration per Run 2	-0.002 ppm	-0.001 ppm	0.001 ppm	-0.017 ppm
Concentration per Run 3	-0.005 ppm	0.005 ppm	0.001 ppm	-0.016 ppm
Concentration RSD	44.7 %	240.6 %	58.3 %	1.8 %
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	-0.033 ppm	0.001 ppm	0.004 ppm	-0.003 ppm
Concentration per Run 1	-0.033 ppm	0.002 ppm	0.004 ppm	-0.004 ppm
Concentration per Run 2	-0.033 ppm	0.000 ppm	0.002 ppm	-0.003 ppm
Concentration per Run 3	-0.034 ppm	0.001 ppm	0.006 ppm	-0.001 ppm
Concentration RSD	2.6 %	77.4 %	54.5 %	51.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	-0.013 ppm	-0.001 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	-0.013 ppm	-0.002 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	-0.016 ppm	-0.001 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.011 ppm	0.000 ppm
Concentration RSD	5.8 %	155.4 %	19.2 %	63.9 %
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	-0.001 ppm	0.007 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	-0.004 ppm	0.008 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.003 ppm	0.005 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.009 ppm	0.000 ppm	0.002 ppm
Concentration RSD	348.0 %	30.0 %	136.4 %	171.2 %
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	-0.006 ppm	90.809 %	85.042 %	70.988 %
Concentration per Run 1	-0.006 ppm	90.564 %	84.987 %	71.056 %
Concentration per Run 2	-0.006 ppm	91.330 %	84.882 %	70.781 %
Concentration per Run 3	-0.006 ppm	90.533 %	85.256 %	71.127 %
Concentration RSD	1.8 %	0.5 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.5 %	0.2 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	83.439 %	-0.194 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 1	83.257 %	-0.080 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 2	83.395 %	-0.255 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 3	83.665 %	-0.248 ppm	0.005 ppm	-0.003 ppm
Concentration RSD	0.2 %	51.0 %	3.7 %	2.5 %
Concentration SD	0.2 %	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	0.000 ppm
Concentration per Run 3	0.003 ppm
Concentration RSD	117.8 %
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	27,739 cps	2 cps	-1 cps	286,955 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	108,740 cps	82,866 cps	5,264 cps	62 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	58 cps	33,192 cps	61 cps	266 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-12 cps	3 cps	3 cps	-33 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-25 cps	2 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	15 cps	2 cps	4 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	1 cps	-3 cps	19 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-277 cps	5,824 cps	9,780 cps	2,728 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	144,037 cps	-155 cps	19 cps	-10 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

ICSAB 14J10824

Sample Type QC Analysis Date 10/30/2014 1:33:25 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	466.760 ppm	0.896 ppm	0.448 ppm	420.015 ppm
Concentration per Run 1	474.202 ppm	0.909 ppm	0.456 ppm	426.113 ppm
Concentration per Run 2	457.906 ppm	0.874 ppm	0.438 ppm	410.407 ppm
Concentration per Run 3	468.173 ppm	0.907 ppm	0.449 ppm	423.526 ppm
Concentration RSD	1.8 %	2.2 %	2.0 %	2.0 %
Concentration SD	8.2 ppm	0.0 ppm	0.0 ppm	8.4 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	470.255 ppm	164.526 ppm	187.645 ppm	-0.034 ppm
Concentration per Run 1	477.423 ppm	167.036 ppm	190.394 ppm	-0.015 ppm
Concentration per Run 2	460.619 ppm	160.585 ppm	183.246 ppm	-0.041 ppm
Concentration per Run 3	472.723 ppm	165.956 ppm	189.295 ppm	-0.044 ppm
Concentration RSD	1.8 %	2.1 %	2.1 %	47.3 %
Concentration SD	8.7 ppm	3.5 ppm	3.8 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	482.382 ppm	0.025 ppm	0.007 ppm
Concentration per Run 1	0.004 ppm	489.310 ppm	0.027 ppm	0.007 ppm
Concentration per Run 2	0.003 ppm	471.796 ppm	0.028 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	486.039 ppm	0.019 ppm	0.007 ppm
Concentration RSD	20.2 %	1.9 %	21.3 %	2.4 %
Concentration SD	0.0 ppm	9.3 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	0.444 ppm	0.439 ppm	0.486 ppm	0.945 ppm
Concentration per Run 1	0.451 ppm	0.444 ppm	0.487 ppm	0.944 ppm
Concentration per Run 2	0.435 ppm	0.431 ppm	0.486 ppm	0.945 ppm
Concentration per Run 3	0.446 ppm	0.442 ppm	0.487 ppm	0.946 ppm
Concentration RSD	1.9 %	1.6 %	0.1 %	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	0.928 ppm	0.479 ppm	0.466 ppm	0.492 ppm
Concentration per Run 1	0.929 ppm	0.480 ppm	0.469 ppm	0.494 ppm
Concentration per Run 2	0.930 ppm	0.479 ppm	0.464 ppm	0.491 ppm
Concentration per Run 3	0.925 ppm	0.479 ppm	0.465 ppm	0.490 ppm
Concentration RSD	0.3 %	0.1 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.454 ppm	0.454 ppm	-0.014 ppm	0.963 ppm
Concentration per Run 1	0.454 ppm	0.453 ppm	-0.017 ppm	0.953 ppm
Concentration per Run 2	0.455 ppm	0.454 ppm	-0.014 ppm	0.962 ppm
Concentration per Run 3	0.454 ppm	0.454 ppm	-0.012 ppm	0.973 ppm
Concentration RSD	0.1 %	0.1 %	20.0 %	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	0.496 ppm	0.512 ppm	1.068 ppm	0.451 ppm
Concentration per Run 1	0.497 ppm	0.512 ppm	1.059 ppm	0.447 ppm
Concentration per Run 2	0.491 ppm	0.511 ppm	1.071 ppm	0.453 ppm
Concentration per Run 3	0.501 ppm	0.513 ppm	1.074 ppm	0.454 ppm
Concentration RSD	1.0 %	0.2 %	0.7 %	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	0.444 ppm	94.717 %	86.376 %	71.919 %
Concentration per Run 1	0.441 ppm	93.358 %	86.433 %	71.922 %
Concentration per Run 2	0.446 ppm	96.701 %	86.358 %	71.940 %
Concentration per Run 3	0.446 ppm	94.093 %	86.337 %	71.897 %
Concentration RSD	0.6 %	1.9 %	0.1 %	0.0 %
Concentration SD	0.0 ppm	1.8 %	0.1 %	0.0 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	84.829 %	0.031 ppm	0.866 ppm	1.002 ppm
Concentration per Run 1	85.144 %	0.025 ppm	0.866 ppm	1.001 ppm
Concentration per Run 2	84.498 %	-0.039 ppm	0.867 ppm	1.004 ppm
Concentration per Run 3	84.844 %	0.107 ppm	0.866 ppm	1.001 ppm
Concentration RSD	0.4 %	233.5 %	0.1 %	0.1 %
Concentration SD	0.3 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.462 ppm
Concentration per Run 1	0.463 ppm
Concentration per Run 2	0.452 ppm
Concentration per Run 3	0.470 ppm
Concentration RSD	1.9 %
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	27,308 cps	328 cps	9,031 cps	282,551 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	107,165 cps	81,723 cps	5,186 cps	41 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	64 cps	32,743 cps	57 cps	265 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,223 cps	289 cps	1,370 cps	1,975 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	671 cps	428 cps	246 cps	197 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,235 cps	1,718 cps	4 cps	2,293 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	292 cps	174 cps	8,802 cps	2,894 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	22,055 cps	6,075 cps	9,934 cps	2,764 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,437 cps	-141 cps	3,457 cps	5,170 cps

	Cu 324.754 {104} (Radial)
Intensity average	414 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type UNKNOWN Analysis Date 10/30/2014 1:45:34 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	4.635 ppm	-0.230 ppm	-0.001 ppm	5.900 ppm
Concentration per Run 1	4.154 ppm	-0.694 ppm	-0.007 ppm	6.105 ppm
Concentration per Run 2	1.915 ppm	-0.335 ppm	-0.003 ppm	5.723 ppm
Concentration per Run 3	7.836 ppm	0.339 ppm	0.007 ppm	5.871 ppm
Concentration RSD	64.5 %	227.9 %	660.5 %	3.3 %
Concentration SD	3.0 ppm	0.5 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	4.407 ppm	2.806 ppm	-0.403 ppm	0.148 ppm
Concentration per Run 1	5.099 ppm	2.734 ppm	2.535 ppm	-0.516 ppm
Concentration per Run 2	4.623 ppm	2.720 ppm	0.137 ppm	0.019 ppm
Concentration per Run 3	3.498 ppm	2.964 ppm	-3.881 ppm	0.943 ppm
Concentration RSD	18.7 %	4.9 %	804.3 %	497.7 %
Concentration SD	0.8 ppm	0.1 ppm	3.2 ppm	0.7 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.049 ppm	-0.613 ppm	1.928 ppm	0.016 ppm
Concentration per Run 1	0.038 ppm	-2.144 ppm	1.594 ppm	0.003 ppm
Concentration per Run 2	0.067 ppm	-1.687 ppm	2.286 ppm	0.020 ppm
Concentration per Run 3	0.041 ppm	1.991 ppm	1.903 ppm	0.027 ppm
Concentration RSD	32.2 %	369.5 %	18.0 %	74.5 %
Concentration SD	0.0 ppm	2.3 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	0.073 ppm	-0.537 ppm	0.012 ppm	0.352 ppm
Concentration per Run 1	0.138 ppm	-0.278 ppm	0.015 ppm	0.340 ppm
Concentration per Run 2	0.007 ppm	-0.762 ppm	0.019 ppm	0.352 ppm
Concentration per Run 3	0.074 ppm	-0.570 ppm	0.002 ppm	0.363 ppm
Concentration RSD	89.6 %	45.4 %	75.6 %	3.2 %
Concentration SD	0.1 ppm	0.2 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	0.079 ppm	1.788 ppm	0.123 ppm	0.138 ppm
Concentration per Run 1	0.044 ppm	1.757 ppm	0.132 ppm	0.130 ppm
Concentration per Run 2	0.051 ppm	1.793 ppm	0.155 ppm	0.054 ppm
Concentration per Run 3	0.143 ppm	1.812 ppm	0.083 ppm	0.232 ppm
Concentration RSD	69.4 %	1.6 %	29.8 %	64.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.062 ppm	-0.004 ppm	3.685 ppm	2.543 ppm
Concentration per Run 1	0.070 ppm	-0.032 ppm	4.004 ppm	2.654 ppm
Concentration per Run 2	0.052 ppm	0.000 ppm	3.583 ppm	2.372 ppm
Concentration per Run 3	0.064 ppm	0.019 ppm	3.469 ppm	2.604 ppm
Concentration RSD	14.6 %	601.5 %	7.6 %	5.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 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	0.040 ppm	0.088 ppm	0.019 ppm	-0.080 ppm
Concentration per Run 1	0.069 ppm	0.261 ppm	-0.020 ppm	-0.080 ppm
Concentration per Run 2	0.017 ppm	0.145 ppm	0.111 ppm	-0.134 ppm
Concentration per Run 3	0.033 ppm	-0.141 ppm	-0.034 ppm	-0.025 ppm
Concentration RSD	66.7 %	234.0 %	422.4 %	68.0 %
Concentration SD	0.0 ppm	0.2 ppm	0.1 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.031 ppm	100.400 %	98.476 %	98.064 %
Concentration per Run 1	0.026 ppm	99.159 %	98.413 %	97.972 %
Concentration per Run 2	0.035 ppm	101.230 %	98.771 %	98.205 %
Concentration per Run 3	0.031 ppm	100.810 %	98.245 %	98.015 %
Concentration RSD	13.6 %	1.1 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	1.1 %	0.3 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	99.371 %	29.359 ppm	1.076 ppm	-0.007 ppm
Concentration per Run 1	99.004 %	35.069 ppm	1.056 ppm	-0.009 ppm
Concentration per Run 2	99.687 %	27.498 ppm	1.093 ppm	0.003 ppm
Concentration per Run 3	99.423 %	25.510 ppm	1.078 ppm	-0.015 ppm
Concentration RSD	0.3 %	17.2 %	1.7 %	132.5 %
Concentration SD	0.3 %	5.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.138 ppm
Concentration per Run 1	-0.141 ppm
Concentration per Run 2	-0.316 ppm
Concentration per Run 3	0.044 ppm
Concentration RSD	130.5 %
Concentration SD	0.2 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	2 cps	-3 cps	94 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	26 cps	31 cps	2 cps	65 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	24 cps	-1 cps	50 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	0 cps	12 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	24 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	8 cps	3 cps	18 cps	95 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	12 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	30 cps	6,440 cps	11,326 cps	3,768 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	171,542 cps	-123 cps	51 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type UNKNOWN Analysis Date 10/30/2014 1:50:02 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	13,459.064 ppm	131.421 ppm	98.385 ppm
Concentration per Run 1	13,432.549 ppm	130.870 ppm	98.125 ppm
Concentration per Run 2	13,546.875 ppm	133.013 ppm	98.522 ppm
Concentration per Run 3	13,397.768 ppm	130.379 ppm	98.507 ppm
Concentration RSD	0.6 %	1.1 %	0.2 %
Concentration SD	78.0 ppm	1.4 ppm	0.2 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	7,264.712 ppm	7,936.102 ppm	13,753.394 ppm
Concentration per Run 1	7,254.613 ppm	7,922.402 ppm	13,725.993 ppm
Concentration per Run 2	7,259.910 ppm	7,947.021 ppm	13,767.854 ppm
Concentration per Run 3	7,279.613 ppm	7,938.883 ppm	13,766.335 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %
Concentration SD	13.2 ppm	12.5 ppm	23.7 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	15,766.423 ppm	3,441.551 ppm	10.490 ppm
Concentration per Run 1	15,743.047 ppm	3,430.899 ppm	10.403 ppm
Concentration per Run 2	15,785.911 ppm	3,450.961 ppm	10.510 ppm
Concentration per Run 3	15,770.313 ppm	3,442.793 ppm	10.557 ppm
Concentration RSD	0.1 %	0.3 %	0.8 %
Concentration SD	21.7 ppm	10.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3,435.621 ppm	610.451 ppm	141.164 ppm
Concentration per Run 1	3,432.437 ppm	608.272 ppm	140.736 ppm
Concentration per Run 2	3,427.447 ppm	612.932 ppm	142.058 ppm
Concentration per Run 3	3,446.981 ppm	610.151 ppm	140.697 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %
Concentration SD	10.1 ppm	2.3 ppm	0.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	391.870 ppm	131.420 ppm	197.754 ppm
Concentration per Run 1	390.106 ppm	131.466 ppm	197.689 ppm
Concentration per Run 2	393.835 ppm	131.840 ppm	198.016 ppm
Concentration per Run 3	391.670 ppm	130.955 ppm	197.556 ppm
Concentration RSD	0.5 %	0.3 %	0.1 %
Concentration SD	1.9 ppm	0.4 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	129.864 ppm	110.326 ppm	112.261 ppm
Concentration per Run 1	129.765 ppm	110.162 ppm	111.978 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	129.835 ppm	110.483 ppm	112.583 ppm
Concentration per Run 3	129.990 ppm	110.334 ppm	112.220 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %
Concentration SD	0.1 ppm	0.2 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	121.331 ppm	249.787 ppm	260.589 ppm
Concentration per Run 1	121.609 ppm	249.974 ppm	260.799 ppm
Concentration per Run 2	121.538 ppm	250.547 ppm	261.369 ppm
Concentration per Run 3	120.848 ppm	248.841 ppm	259.600 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %
Concentration SD	0.4 ppm	0.9 ppm	0.9 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	96.699 ppm	242.903 ppm	680.366 ppm
Concentration per Run 1	96.730 ppm	242.801 ppm	677.050 ppm
Concentration per Run 2	97.000 ppm	244.162 ppm	686.856 ppm
Concentration per Run 3	96.366 ppm	241.745 ppm	677.193 ppm
Concentration RSD	0.3 %	0.5 %	0.8 %
Concentration SD	0.3 ppm	1.2 ppm	5.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	98.037 ppm	121.775 ppm	49.815 ppm
Concentration per Run 1	98.007 ppm	121.545 ppm	49.584 ppm
Concentration per Run 2	98.504 ppm	122.393 ppm	50.275 ppm
Concentration per Run 3	97.601 ppm	121.388 ppm	49.587 ppm
Concentration RSD	0.5 %	0.4 %	0.8 %
Concentration SD	0.5 ppm	0.5 ppm	0.4 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	131.407 ppm	347.815 ppm	99.773 %
Concentration per Run 1	130.891 ppm	347.260 ppm	99.878 %
Concentration per Run 2	132.862 ppm	351.365 ppm	100.127 %
Concentration per Run 3	130.468 ppm	344.820 ppm	99.315 %
Concentration RSD	1.0 %	1.0 %	0.4 %
Concentration SD	1.3 ppm	3.3 ppm	0.4 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	96.594 %	82.540 %	95.368 %
Concentration per Run 1	96.411 %	82.464 %	95.497 %
Concentration per Run 2	96.412 %	82.436 %	94.775 %
Concentration per Run 3	96.958 %	82.719 %	95.832 %
Concentration RSD	0.3 %	0.2 %	0.6 %
Concentration SD	0.3 %	0.2 %	0.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	656.498 ppm	183.726 ppm	202.442 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	648.281 ppm	183.553 ppm	202.584 ppm
Concentration per Run 2	660.258 ppm	184.062 ppm	203.079 ppm
Concentration per Run 3	660.954 ppm	183.564 ppm	201.664 ppm
Concentration RSD	1.1 %	0.2 %	0.4 %
Concentration SD	7.1 ppm	0.3 ppm	0.7 ppm

	Cu 324.754 {104} (Radial)
Concentration average	125.740 ppm
Concentration per Run 1	125.767 ppm
Concentration per Run 2	126.106 ppm
Concentration per Run 3	125.345 ppm
Concentration RSD	0.3 %
Concentration SD	0.4 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	8,467 cps	515 cps	21,318 cps	52,563 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	19,448 cps	73,423 cps	4,683 cps	21,099 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,518 cps	2,506 cps	13,288 cps	57,377 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	11,608 cps	925 cps	6,522 cps	3,176 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	935 cps	1,171 cps	755 cps	1,153 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	21,160 cps	4,175 cps	656 cps	18,455 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	657 cps	473 cps	4,704 cps	9,624 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	197,958 cps	6,399 cps	11,109 cps	3,172 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	164,631 cps	488 cps	8,363 cps	11,910 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	1,200 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type UNKNOWN Analysis Date 10/30/2014 1:54:06 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	13,215.170 ppm	128.439 ppm	94.965 ppm
Concentration per Run 1	13,288.163 ppm	129.534 ppm	95.442 ppm
Concentration per Run 2	13,208.405 ppm	127.948 ppm	94.904 ppm
Concentration per Run 3	13,148.941 ppm	127.834 ppm	94.550 ppm
Concentration RSD	0.5 %	0.7 %	0.5 %
Concentration SD	69.9 ppm	1.0 ppm	0.4 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	6,911.400 ppm	7,513.209 ppm	13,915.853 ppm
Concentration per Run 1	6,954.547 ppm	7,568.801 ppm	13,997.288 ppm
Concentration per Run 2	6,906.879 ppm	7,505.623 ppm	13,914.524 ppm
Concentration per Run 3	6,872.774 ppm	7,465.203 ppm	13,835.746 ppm
Concentration RSD	0.6 %	0.7 %	0.6 %
Concentration SD	41.1 ppm	52.2 ppm	80.8 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	15,875.744 ppm	3,432.320 ppm	10.363 ppm
Concentration per Run 1	15,980.086 ppm	3,446.877 ppm	10.350 ppm
Concentration per Run 2	15,854.888 ppm	3,439.541 ppm	10.378 ppm
Concentration per Run 3	15,792.258 ppm	3,410.543 ppm	10.361 ppm
Concentration RSD	0.6 %	0.6 %	0.1 %
Concentration SD	95.6 ppm	19.2 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3,350.550 ppm	597.735 ppm	140.717 ppm
Concentration per Run 1	3,375.782 ppm	599.453 ppm	141.293 ppm
Concentration per Run 2	3,341.909 ppm	599.858 ppm	141.227 ppm
Concentration per Run 3	3,333.958 ppm	593.895 ppm	139.632 ppm
Concentration RSD	0.7 %	0.6 %	0.7 %
Concentration SD	22.2 ppm	3.3 ppm	0.9 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	416.253 ppm	130.540 ppm	188.830 ppm
Concentration per Run 1	418.030 ppm	131.034 ppm	193.147 ppm
Concentration per Run 2	416.776 ppm	130.171 ppm	192.425 ppm
Concentration per Run 3	413.952 ppm	130.416 ppm	180.918 ppm
Concentration RSD	0.5 %	0.3 %	3.6 %
Concentration SD	2.1 ppm	0.4 ppm	6.9 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	124.625 ppm	105.989 ppm	105.563 ppm
Concentration per Run 1	127.575 ppm	108.220 ppm	107.721 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	126.950 ppm	108.060 ppm	107.860 ppm
Concentration per Run 3	119.348 ppm	101.688 ppm	101.108 ppm
Concentration RSD	3.7 %	3.5 %	3.7 %
Concentration SD	4.6 ppm	3.7 ppm	3.9 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	121.572 ppm	238.489 ppm	250.737 ppm
Concentration per Run 1	124.644 ppm	244.687 ppm	257.060 ppm
Concentration per Run 2	123.694 ppm	243.222 ppm	255.447 ppm
Concentration per Run 3	116.377 ppm	227.558 ppm	239.704 ppm
Concentration RSD	3.7 %	4.0 %	3.8 %
Concentration SD	4.5 ppm	9.5 ppm	9.6 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	92.935 ppm	236.082 ppm	695.472 ppm
Concentration per Run 1	95.290 ppm	242.566 ppm	693.595 ppm
Concentration per Run 2	94.766 ppm	240.352 ppm	703.810 ppm
Concentration per Run 3	88.747 ppm	225.329 ppm	689.010 ppm
Concentration RSD	3.9 %	4.0 %	1.1 %
Concentration SD	3.6 ppm	9.4 ppm	7.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	94.667 ppm	116.875 ppm	49.534 ppm
Concentration per Run 1	97.585 ppm	119.683 ppm	49.426 ppm
Concentration per Run 2	95.853 ppm	119.191 ppm	50.169 ppm
Concentration per Run 3	90.564 ppm	111.751 ppm	49.008 ppm
Concentration RSD	3.9 %	3.8 %	1.2 %
Concentration SD	3.7 ppm	4.4 ppm	0.6 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	130.567 ppm	346.434 ppm	99.321 %
Concentration per Run 1	130.316 ppm	345.880 ppm	98.583 %
Concentration per Run 2	131.942 ppm	350.609 ppm	99.433 %
Concentration per Run 3	129.442 ppm	342.815 ppm	99.945 %
Concentration RSD	1.0 %	1.1 %	0.7 %
Concentration SD	1.3 ppm	3.9 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	97.749 %	84.155 %	94.217 %
Concentration per Run 1	95.666 %	82.358 %	94.207 %
Concentration per Run 2	96.032 %	82.741 %	93.454 %
Concentration per Run 3	101.550 %	87.365 %	94.989 %
Concentration RSD	3.4 %	3.3 %	0.8 %
Concentration SD	3.3 %	2.8 %	0.8 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	647.789 ppm	175.945 ppm	193.144 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	647.556 ppm	179.585 ppm	198.091 ppm
Concentration per Run 2	653.925 ppm	179.251 ppm	196.785 ppm
Concentration per Run 3	641.885 ppm	168.998 ppm	184.556 ppm
Concentration RSD	0.9 %	3.4 %	3.9 %
Concentration SD	6.0 ppm	6.0 ppm	7.5 ppm

	Cu 324.754 {104} (Radial)
Concentration average	123.323 ppm
Concentration per Run 1	123.394 ppm
Concentration per Run 2	124.039 ppm
Concentration per Run 3	122.536 ppm
Concentration RSD	0.6 %
Concentration SD	0.8 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	7,952 cps	482 cps	19,679 cps	47,831 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	17,611 cps	71,051 cps	4,510 cps	20,128 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,435 cps	2,337 cps	12,444 cps	54,700 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	11,793 cps	879 cps	6,096 cps	2,984 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	879 cps	1,078 cps	740 cps	1,069 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	19,779 cps	3,898 cps	620 cps	17,906 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	616 cps	441 cps	4,439 cps	9,077 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	187,149 cps	6,370 cps	11,242 cps	3,234 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	162,643 cps	452 cps	7,781 cps	11,038 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	1,126 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729024-01 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 1:58:10 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	503.481 ppm	0.731 ppm	0.063 ppm
Concentration per Run 1	505.553 ppm	0.420 ppm	0.060 ppm
Concentration per Run 2	462.593 ppm	1.760 ppm	0.067 ppm
Concentration per Run 3	542.298 ppm	0.012 ppm	0.061 ppm
Concentration RSD	7.9 %	125.2 %	5.6 %
Concentration SD	39.9 ppm	0.9 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	183,640.994 ppm	203,816.278 ppm	363.999 ppm
Concentration per Run 1	182,217.621 ppm	201,946.778 ppm	362.845 ppm
Concentration per Run 2	182,724.183 ppm	203,543.995 ppm	364.778 ppm
Concentration per Run 3	185,981.179 ppm	205,958.061 ppm	364.375 ppm
Concentration RSD	1.1 %	1.0 %	0.3 %
Concentration SD	2,042.4 ppm	2,019.5 ppm	1.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	425.796 ppm	216.200 ppm	2.193 ppm
Concentration per Run 1	439.557 ppm	216.323 ppm	2.217 ppm
Concentration per Run 2	426.863 ppm	210.757 ppm	2.206 ppm
Concentration per Run 3	410.967 ppm	221.519 ppm	2.157 ppm
Concentration RSD	3.4 %	2.5 %	1.5 %
Concentration SD	14.3 ppm	5.4 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	311.541 ppm	216.847 ppm	1,116.197 ppm
Concentration per Run 1	296.029 ppm	216.678 ppm	1,112.910 ppm
Concentration per Run 2	317.220 ppm	216.493 ppm	1,112.298 ppm
Concentration per Run 3	321.372 ppm	217.370 ppm	1,123.385 ppm
Concentration RSD	4.4 %	0.2 %	0.6 %
Concentration SD	13.6 ppm	0.5 ppm	6.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	20.038 ppm	1.436 ppm	0.633 ppm
Concentration per Run 1	19.956 ppm	1.502 ppm	0.617 ppm
Concentration per Run 2	19.749 ppm	1.998 ppm	0.783 ppm
Concentration per Run 3	20.409 ppm	0.808 ppm	0.500 ppm
Concentration RSD	1.7 %	41.6 %	22.5 %
Concentration SD	0.3 ppm	0.6 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.135 ppm	0.202 ppm	1.384 ppm
Concentration per Run 1	1.200 ppm	0.291 ppm	1.878 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.302 ppm	0.351 ppm	1.474 ppm
Concentration per Run 3	0.903 ppm	-0.035 ppm	0.800 ppm
Concentration RSD	18.3 %	102.6 %	39.3 %
Concentration SD	0.2 ppm	0.2 ppm	0.5 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.195 ppm	-0.203 ppm	11.037 ppm
Concentration per Run 1	-0.018 ppm	-1.115 ppm	11.091 ppm
Concentration per Run 2	0.200 ppm	0.190 ppm	11.001 ppm
Concentration per Run 3	0.403 ppm	0.316 ppm	11.017 ppm
Concentration RSD	108.1 %	390.6 %	0.4 %
Concentration SD	0.2 ppm	0.8 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.162 ppm	144,656.259 ppm	427.499 ppm
Concentration per Run 1	0.119 ppm	144,208.798 ppm	427.200 ppm
Concentration per Run 2	0.199 ppm	144,885.767 ppm	427.141 ppm
Concentration per Run 3	0.169 ppm	144,874.211 ppm	428.157 ppm
Concentration RSD	24.9 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	387.6 ppm	0.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.267 ppm	-0.036 ppm	-0.164 ppm
Concentration per Run 1	-0.744 ppm	-0.615 ppm	-0.214 ppm
Concentration per Run 2	0.254 ppm	0.255 ppm	0.082 ppm
Concentration per Run 3	-0.312 ppm	0.252 ppm	-0.359 ppm
Concentration RSD	187.3 %	1,401.0 %	137.1 %
Concentration SD	0.5 ppm	0.5 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.443 ppm	10.099 ppm	94.354 %
Concentration per Run 1	0.348 ppm	10.133 ppm	94.098 %
Concentration per Run 2	0.257 ppm	10.083 ppm	95.170 %
Concentration per Run 3	0.725 ppm	10.080 ppm	93.793 %
Concentration RSD	55.9 %	0.3 %	0.8 %
Concentration SD	0.2 ppm	0.0 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.718 %	82.666 %	90.028 %
Concentration per Run 1	89.807 %	82.663 %	89.785 %
Concentration per Run 2	89.698 %	82.705 %	90.027 %
Concentration per Run 3	89.647 %	82.629 %	90.273 %
Concentration RSD	0.1 %	0.0 %	0.3 %
Concentration SD	0.1 %	0.0 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	95.334 ppm	4.078 ppm	0.082 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	51.204 ppm	4.067 ppm	0.129 ppm
Concentration per Run 2	117.681 ppm	4.063 ppm	0.031 ppm
Concentration per Run 3	117.117 ppm	4.105 ppm	0.087 ppm
Concentration RSD	40.1 %	0.6 %	59.9 %
Concentration SD	38.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.281 ppm
Concentration per Run 1	0.481 ppm
Concentration per Run 2	-0.778 ppm
Concentration per Run 3	1.141 ppm
Concentration RSD	346.4 %
Concentration SD	1.0 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	3 cps	0 cps	241,264 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	90,708 cps	368 cps	25 cps	300 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	73 cps	41 cps	864 cps	82,443 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	106 cps	4 cps	4 cps	7 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	4 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	163 cps	4 cps	68,898 cps	2,121 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	-9 cps	23 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	1,053 cps	6,052 cps	10,318 cps	3,177 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	155,413 cps	-126 cps	33 cps	5 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

SD L729024-01 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 2:02:35 PM

Dilution Factor 25

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	564.881 ppm	-13.965 ppm	0.007 ppm
Concentration per Run 1	566.056 ppm	-6.501 ppm	0.103 ppm
Concentration per Run 2	567.398 ppm	-13.499 ppm	0.026 ppm
Concentration per Run 3	561.190 ppm	-21.894 ppm	-0.108 ppm
Concentration RSD	0.6 %	55.2 %	1,510.8 %
Concentration SD	3.3 ppm	7.7 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	185,878.084 ppm	199,111.763 ppm	349.312 ppm
Concentration per Run 1	186,439.496 ppm	200,170.589 ppm	351.496 ppm
Concentration per Run 2	185,789.354 ppm	198,988.799 ppm	342.633 ppm
Concentration per Run 3	185,405.401 ppm	198,175.902 ppm	353.807 ppm
Concentration RSD	0.3 %	0.5 %	1.7 %
Concentration SD	522.7 ppm	1,003.0 ppm	5.9 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	279.109 ppm	194.665 ppm	2.729 ppm
Concentration per Run 1	241.616 ppm	243.223 ppm	4.052 ppm
Concentration per Run 2	237.606 ppm	185.807 ppm	5.349 ppm
Concentration per Run 3	358.106 ppm	154.966 ppm	-1.214 ppm
Concentration RSD	24.5 %	23.0 %	127.4 %
Concentration SD	68.4 ppm	44.8 ppm	3.5 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	312.101 ppm	211.823 ppm	1,102.604 ppm
Concentration per Run 1	259.303 ppm	218.830 ppm	1,107.304 ppm
Concentration per Run 2	376.144 ppm	197.330 ppm	1,104.454 ppm
Concentration per Run 3	300.856 ppm	219.309 ppm	1,096.053 ppm
Concentration RSD	19.0 %	5.9 %	0.5 %
Concentration SD	59.2 ppm	12.6 ppm	5.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	34.720 ppm	-5.890 ppm	0.446 ppm
Concentration per Run 1	34.636 ppm	-15.215 ppm	-0.053 ppm
Concentration per Run 2	34.838 ppm	0.163 ppm	0.885 ppm
Concentration per Run 3	34.686 ppm	-2.619 ppm	0.507 ppm
Concentration RSD	0.3 %	139.1 %	105.7 %
Concentration SD	0.1 ppm	8.2 ppm	0.5 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.661 ppm	2.389 ppm	-0.975 ppm
Concentration per Run 1	1.476 ppm	1.062 ppm	-0.797 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	2.650 ppm	2.191 ppm	-1.921 ppm
Concentration per Run 3	0.857 ppm	3.915 ppm	-0.207 ppm
Concentration RSD	54.8 %	60.1 %	89.3 %
Concentration SD	0.9 ppm	1.4 ppm	0.9 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.644 ppm	-0.339 ppm	10.364 ppm
Concentration per Run 1	1.681 ppm	-4.331 ppm	10.396 ppm
Concentration per Run 2	-0.662 ppm	4.284 ppm	10.474 ppm
Concentration per Run 3	0.914 ppm	-0.971 ppm	10.222 ppm
Concentration RSD	185.4 %	1,279.9 %	1.2 %
Concentration SD	1.2 ppm	4.3 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.295 ppm	132,452.876 ppm	428.913 ppm
Concentration per Run 1	0.747 ppm	132,453.108 ppm	427.487 ppm
Concentration per Run 2	-0.367 ppm	132,654.683 ppm	431.830 ppm
Concentration per Run 3	0.506 ppm	132,250.838 ppm	427.421 ppm
Concentration RSD	198.7 %	0.2 %	0.6 %
Concentration SD	0.6 ppm	201.9 ppm	2.5 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-1.061 ppm	-0.106 ppm	1.326 ppm
Concentration per Run 1	-1.566 ppm	1.411 ppm	1.939 ppm
Concentration per Run 2	-0.250 ppm	3.120 ppm	0.154 ppm
Concentration per Run 3	-1.368 ppm	-4.850 ppm	1.884 ppm
Concentration RSD	66.9 %	3,944.1 %	76.6 %
Concentration SD	0.7 ppm	4.2 ppm	1.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	-0.062 ppm	9.770 ppm	94.958 %
Concentration per Run 1	0.833 ppm	9.731 ppm	94.886 %
Concentration per Run 2	-1.476 ppm	9.680 ppm	94.695 %
Concentration per Run 3	0.456 ppm	9.898 ppm	95.294 %
Concentration RSD	1,990.6 %	1.2 %	0.3 %
Concentration SD	1.2 ppm	0.1 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	95.395 %	92.368 %	94.885 %
Concentration per Run 1	95.267 %	92.181 %	94.882 %
Concentration per Run 2	95.250 %	92.208 %	94.818 %
Concentration per Run 3	95.667 %	92.716 %	94.955 %
Concentration RSD	0.2 %	0.3 %	0.1 %
Concentration SD	0.2 %	0.3 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-284.894 ppm	3.356 ppm	0.178 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	-367.255 ppm	3.088 ppm	0.266 ppm
Concentration per Run 2	-341.359 ppm	3.406 ppm	-0.036 ppm
Concentration per Run 3	-146.067 ppm	3.575 ppm	0.305 ppm
Concentration RSD	42.4 %	7.4 %	104.4 %
Concentration SD	120.9 ppm	0.2 ppm	0.2 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.210 ppm
Concentration per Run 1	-4.984 ppm
Concentration per Run 2	2.380 ppm
Concentration per Run 3	3.232 ppm
Concentration RSD	2,156.4 %
Concentration SD	4.5 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	20 cps	1 cps	-3 cps	49,193 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	17,848 cps	83 cps	5 cps	104 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	8 cps	175 cps	16,387 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	36 cps	1 cps	0 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	0 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	35 cps	3 cps	13,422 cps	465 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	17 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	223 cps	6,091 cps	10,971 cps	3,550 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	163,797 cps	-154 cps	6 cps	5 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

PS L729024-01 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 2:07:01 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	1,004.894 ppm	505.763 ppm	494.245 ppm
Concentration per Run 1	1,002.394 ppm	499.925 ppm	489.884 ppm
Concentration per Run 2	1,023.933 ppm	511.174 ppm	499.587 ppm
Concentration per Run 3	988.353 ppm	506.189 ppm	493.262 ppm
Concentration RSD	1.8 %	1.1 %	1.0 %
Concentration SD	17.9 ppm	5.6 ppm	4.9 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	188,095.820 ppm	207,348.543 ppm	854.540 ppm
Concentration per Run 1	186,572.173 ppm	206,401.442 ppm	849.610 ppm
Concentration per Run 2	189,885.559 ppm	208,874.884 ppm	866.310 ppm
Concentration per Run 3	187,829.727 ppm	206,769.304 ppm	847.700 ppm
Concentration RSD	0.9 %	0.6 %	1.2 %
Concentration SD	1,672.6 ppm	1,334.6 ppm	10.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1,004.774 ppm	5,481.090 ppm	525.277 ppm
Concentration per Run 1	1,037.376 ppm	5,447.779 ppm	522.230 ppm
Concentration per Run 2	975.911 ppm	5,536.585 ppm	532.120 ppm
Concentration per Run 3	1,001.037 ppm	5,458.906 ppm	521.480 ppm
Concentration RSD	3.1 %	0.9 %	1.1 %
Concentration SD	30.9 ppm	48.4 ppm	5.9 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	5,201.979 ppm	5,369.694 ppm	1,614.379 ppm
Concentration per Run 1	5,140.076 ppm	5,338.537 ppm	1,606.805 ppm
Concentration per Run 2	5,265.282 ppm	5,425.104 ppm	1,631.909 ppm
Concentration per Run 3	5,200.580 ppm	5,345.441 ppm	1,604.423 ppm
Concentration RSD	1.2 %	0.9 %	0.9 %
Concentration SD	62.6 ppm	48.1 ppm	15.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	507.899 ppm	515.513 ppm	514.688 ppm
Concentration per Run 1	507.097 ppm	511.490 ppm	514.509 ppm
Concentration per Run 2	512.063 ppm	521.494 ppm	514.748 ppm
Concentration per Run 3	504.537 ppm	513.556 ppm	514.807 ppm
Concentration RSD	0.8 %	1.0 %	0.0 %
Concentration SD	3.8 ppm	5.3 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	504.046 ppm	498.243 ppm	490.725 ppm
Concentration per Run 1	504.152 ppm	499.114 ppm	490.323 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	503.877 ppm	497.218 ppm	490.074 ppm
Concentration per Run 3	504.110 ppm	498.399 ppm	491.779 ppm
Concentration RSD	0.0 %	0.2 %	0.2 %
Concentration SD	0.1 ppm	1.0 ppm	0.9 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	490.726 ppm	528.832 ppm	508.006 ppm
Concentration per Run 1	491.524 ppm	527.165 ppm	507.923 ppm
Concentration per Run 2	492.867 ppm	530.358 ppm	508.694 ppm
Concentration per Run 3	487.787 ppm	528.972 ppm	507.400 ppm
Concentration RSD	0.5 %	0.3 %	0.1 %
Concentration SD	2.6 ppm	1.6 ppm	0.7 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	505.141 ppm	136,544.900 ppm	922.472 ppm
Concentration per Run 1	504.779 ppm	136,564.747 ppm	916.812 ppm
Concentration per Run 2	505.961 ppm	136,616.123 ppm	932.044 ppm
Concentration per Run 3	504.682 ppm	136,453.830 ppm	918.559 ppm
Concentration RSD	0.1 %	0.1 %	0.9 %
Concentration SD	0.7 ppm	82.9 ppm	8.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	520.553 ppm	543.905 ppm	483.122 ppm
Concentration per Run 1	520.456 ppm	543.343 ppm	485.391 ppm
Concentration per Run 2	523.217 ppm	545.622 ppm	484.856 ppm
Concentration per Run 3	517.984 ppm	542.750 ppm	479.118 ppm
Concentration RSD	0.5 %	0.3 %	0.7 %
Concentration SD	2.6 ppm	1.5 ppm	3.5 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	495.978 ppm	504.624 ppm	91.134 %
Concentration per Run 1	492.495 ppm	499.621 ppm	91.478 %
Concentration per Run 2	499.451 ppm	508.846 ppm	90.669 %
Concentration per Run 3	495.989 ppm	505.404 ppm	91.255 %
Concentration RSD	0.7 %	0.9 %	0.5 %
Concentration SD	3.5 ppm	4.7 ppm	0.4 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	88.515 %	81.302 %	88.251 %
Concentration per Run 1	88.563 %	81.281 %	88.802 %
Concentration per Run 2	88.271 %	81.131 %	87.920 %
Concentration per Run 3	88.709 %	81.495 %	88.031 %
Concentration RSD	0.3 %	0.2 %	0.5 %
Concentration SD	0.2 %	0.2 %	0.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5,380.363 ppm	488.940 ppm	523.959 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	5,314.714 ppm	489.305 ppm	523.861 ppm
Concentration per Run 2	5,388.920 ppm	487.869 ppm	524.788 ppm
Concentration per Run 3	5,437.454 ppm	489.646 ppm	523.228 ppm
Concentration RSD	1.1 %	0.2 %	0.1 %
Concentration SD	61.8 ppm	0.9 ppm	0.8 ppm

	Cu 324.754 {104} (Radial)
Concentration average	505.879 ppm
Concentration per Run 1	503.534 ppm
Concentration per Run 2	509.508 ppm
Concentration per Run 3	504.596 ppm
Concentration RSD	0.6 %
Concentration SD	3.2 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	117 cps	349 cps	18,796 cps	238,685 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	89,131 cps	815 cps	54 cps	5,938 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	13,208 cps	666 cps	20,510 cps	115,173 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,640 cps	638 cps	3,213 cps	2,334 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	799 cps	969 cps	577 cps	428 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	7,265 cps	3,840 cps	64,163 cps	4,463 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	614 cps	372 cps	8,117 cps	6,463 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	51,077 cps	5,845 cps	10,180 cps	3,124 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	152,345 cps	781 cps	3,919 cps	5,430 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	849 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

MS L729024-01 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 2:11:09 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	586.909 ppm	103.274 ppm	101.626 ppm
Concentration per Run 1	582.307 ppm	103.144 ppm	101.325 ppm
Concentration per Run 2	578.321 ppm	101.163 ppm	102.181 ppm
Concentration per Run 3	600.098 ppm	105.515 ppm	101.373 ppm
Concentration RSD	2.0 %	2.1 %	0.5 %
Concentration SD	11.6 ppm	2.2 ppm	0.5 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	191,002.135 ppm	213,059.321 ppm	401.663 ppm
Concentration per Run 1	190,841.048 ppm	212,522.985 ppm	398.707 ppm
Concentration per Run 2	191,673.217 ppm	213,669.465 ppm	402.859 ppm
Concentration per Run 3	190,492.141 ppm	212,985.512 ppm	403.423 ppm
Concentration RSD	0.3 %	0.3 %	0.6 %
Concentration SD	606.8 ppm	576.8 ppm	2.6 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	462.384 ppm	1,275.209 ppm	111.695 ppm
Concentration per Run 1	437.766 ppm	1,278.065 ppm	111.901 ppm
Concentration per Run 2	476.122 ppm	1,274.931 ppm	111.409 ppm
Concentration per Run 3	473.265 ppm	1,272.632 ppm	111.776 ppm
Concentration RSD	4.6 %	0.2 %	0.2 %
Concentration SD	21.4 ppm	2.7 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,306.886 ppm	1,303.826 ppm	1,343.106 ppm
Concentration per Run 1	1,305.952 ppm	1,304.241 ppm	1,344.747 ppm
Concentration per Run 2	1,323.968 ppm	1,303.428 ppm	1,342.024 ppm
Concentration per Run 3	1,290.738 ppm	1,303.810 ppm	1,342.546 ppm
Concentration RSD	1.3 %	0.0 %	0.1 %
Concentration SD	16.6 ppm	0.4 ppm	1.4 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	116.965 ppm	105.194 ppm	107.150 ppm
Concentration per Run 1	117.731 ppm	106.907 ppm	107.520 ppm
Concentration per Run 2	116.704 ppm	104.975 ppm	107.007 ppm
Concentration per Run 3	116.460 ppm	103.700 ppm	106.924 ppm
Concentration RSD	0.6 %	1.5 %	0.3 %
Concentration SD	0.7 ppm	1.6 ppm	0.3 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	105.387 ppm	102.866 ppm	100.663 ppm
Concentration per Run 1	105.657 ppm	102.851 ppm	100.378 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	105.579 ppm	102.966 ppm	101.023 ppm
Concentration per Run 3	104.924 ppm	102.780 ppm	100.587 ppm
Concentration RSD	0.4 %	0.1 %	0.3 %
Concentration SD	0.4 ppm	0.1 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	71.800 ppm	111.231 ppm	113.725 ppm
Concentration per Run 1	71.396 ppm	111.167 ppm	113.548 ppm
Concentration per Run 2	72.912 ppm	112.080 ppm	113.874 ppm
Concentration per Run 3	71.094 ppm	110.446 ppm	113.752 ppm
Concentration RSD	1.4 %	0.7 %	0.1 %
Concentration SD	1.0 ppm	0.8 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	105.064 ppm	142,795.520 ppm	517.445 ppm
Concentration per Run 1	105.217 ppm	142,876.680 ppm	515.700 ppm
Concentration per Run 2	104.950 ppm	142,878.566 ppm	520.388 ppm
Concentration per Run 3	105.025 ppm	142,631.314 ppm	516.246 ppm
Concentration RSD	0.1 %	0.1 %	0.5 %
Concentration SD	0.1 ppm	142.2 ppm	2.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	107.512 ppm	112.887 ppm	107.035 ppm
Concentration per Run 1	107.342 ppm	112.387 ppm	106.659 ppm
Concentration per Run 2	108.475 ppm	112.756 ppm	107.661 ppm
Concentration per Run 3	106.719 ppm	113.518 ppm	106.783 ppm
Concentration RSD	0.8 %	0.5 %	0.5 %
Concentration SD	0.9 ppm	0.6 ppm	0.5 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	102.098 ppm	112.102 ppm	94.628 %
Concentration per Run 1	102.163 ppm	112.109 ppm	94.348 %
Concentration per Run 2	103.001 ppm	112.346 ppm	94.418 %
Concentration per Run 3	101.129 ppm	111.850 ppm	95.118 %
Concentration RSD	0.9 %	0.2 %	0.5 %
Concentration SD	0.9 ppm	0.2 ppm	0.4 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.894 %	82.804 %	90.496 %
Concentration per Run 1	89.948 %	82.837 %	90.522 %
Concentration per Run 2	89.837 %	82.715 %	90.585 %
Concentration per Run 3	89.898 %	82.860 %	90.381 %
Concentration RSD	0.1 %	0.1 %	0.1 %
Concentration SD	0.1 %	0.1 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,229.153 ppm	103.756 ppm	110.191 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,158.644 ppm	103.787 ppm	110.092 ppm
Concentration per Run 2	1,320.734 ppm	104.061 ppm	110.120 ppm
Concentration per Run 3	1,208.080 ppm	103.419 ppm	110.361 ppm
Concentration RSD	6.8 %	0.3 %	0.1 %
Concentration SD	83.1 ppm	0.3 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	104.290 ppm
Concentration per Run 1	104.588 ppm
Concentration per Run 2	106.566 ppm
Concentration per Run 3	101.717 ppm
Concentration RSD	2.3 %
Concentration SD	2.4 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	78 cps	81 cps	4,257 cps	267,075 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	100,920 cps	429 cps	28 cps	1,568 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,107 cps	184 cps	5,493 cps	105,587 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	669 cps	145 cps	723 cps	529 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	178 cps	216 cps	89 cps	95 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,755 cps	863 cps	72,318 cps	2,733 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	138 cps	82 cps	1,952 cps	1,461 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	12,356 cps	6,069 cps	10,339 cps	3,182 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	156,220 cps	88 cps	896 cps	1,234 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	198 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

MSD L729024-01 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 2:15:24 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	352.652 ppm	101.103 ppm	98.665 ppm
Concentration per Run 1	331.969 ppm	99.798 ppm	98.416 ppm
Concentration per Run 2	377.635 ppm	101.272 ppm	99.045 ppm
Concentration per Run 3	348.352 ppm	102.239 ppm	98.533 ppm
Concentration RSD	6.6 %	1.2 %	0.3 %
Concentration SD	23.1 ppm	1.2 ppm	0.3 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	179,437.696 ppm	199,828.048 ppm	271.904 ppm
Concentration per Run 1	178,221.180 ppm	199,076.067 ppm	276.344 ppm
Concentration per Run 2	179,579.114 ppm	199,686.150 ppm	272.397 ppm
Concentration per Run 3	180,512.795 ppm	200,721.926 ppm	266.970 ppm
Concentration RSD	0.6 %	0.4 %	1.7 %
Concentration SD	1,152.3 ppm	832.1 ppm	4.7 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	337.487 ppm	1,175.320 ppm	109.402 ppm
Concentration per Run 1	347.850 ppm	1,169.179 ppm	108.859 ppm
Concentration per Run 2	319.147 ppm	1,182.481 ppm	109.867 ppm
Concentration per Run 3	345.463 ppm	1,174.299 ppm	109.480 ppm
Concentration RSD	4.7 %	0.6 %	0.5 %
Concentration SD	15.9 ppm	6.7 ppm	0.5 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,198.869 ppm	1,270.772 ppm	1,360.752 ppm
Concentration per Run 1	1,178.940 ppm	1,265.711 ppm	1,355.338 ppm
Concentration per Run 2	1,198.869 ppm	1,270.584 ppm	1,362.339 ppm
Concentration per Run 3	1,218.798 ppm	1,276.021 ppm	1,364.580 ppm
Concentration RSD	1.7 %	0.4 %	0.4 %
Concentration SD	19.9 ppm	5.2 ppm	4.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	109.031 ppm	104.143 ppm	111.751 ppm
Concentration per Run 1	109.217 ppm	104.334 ppm	110.375 ppm
Concentration per Run 2	108.283 ppm	101.437 ppm	111.660 ppm
Concentration per Run 3	109.593 ppm	106.659 ppm	113.219 ppm
Concentration RSD	0.6 %	2.5 %	1.3 %
Concentration SD	0.7 ppm	2.6 ppm	1.4 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	110.338 ppm	107.915 ppm	105.546 ppm
Concentration per Run 1	108.816 ppm	106.432 ppm	104.100 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	110.543 ppm	108.590 ppm	105.887 ppm
Concentration per Run 3	111.655 ppm	108.722 ppm	106.652 ppm
Concentration RSD	1.3 %	1.2 %	1.2 %
Concentration SD	1.4 ppm	1.3 ppm	1.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	69.919 ppm	115.153 ppm	114.311 ppm
Concentration per Run 1	69.807 ppm	114.168 ppm	113.018 ppm
Concentration per Run 2	69.472 ppm	115.784 ppm	114.551 ppm
Concentration per Run 3	70.478 ppm	115.507 ppm	115.364 ppm
Concentration RSD	0.7 %	0.8 %	1.0 %
Concentration SD	0.5 ppm	0.9 ppm	1.2 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	110.036 ppm	144,490.958 ppm	579.465 ppm
Concentration per Run 1	108.718 ppm	142,971.370 ppm	570.911 ppm
Concentration per Run 2	110.436 ppm	144,892.190 ppm	578.306 ppm
Concentration per Run 3	110.953 ppm	145,609.314 ppm	589.179 ppm
Concentration RSD	1.1 %	0.9 %	1.6 %
Concentration SD	1.2 ppm	1,364.0 ppm	9.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	112.799 ppm	117.905 ppm	106.449 ppm
Concentration per Run 1	110.936 ppm	115.808 ppm	105.519 ppm
Concentration per Run 2	113.240 ppm	119.286 ppm	105.529 ppm
Concentration per Run 3	114.220 ppm	118.621 ppm	108.299 ppm
Concentration RSD	1.5 %	1.6 %	1.5 %
Concentration SD	1.7 ppm	1.8 ppm	1.6 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	102.370 ppm	109.074 ppm	95.263 %
Concentration per Run 1	101.425 ppm	107.774 ppm	96.007 %
Concentration per Run 2	101.807 ppm	108.977 ppm	95.007 %
Concentration per Run 3	103.879 ppm	110.471 ppm	94.773 %
Concentration RSD	1.3 %	1.2 %	0.7 %
Concentration SD	1.3 ppm	1.4 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.622 %	82.953 %	90.907 %
Concentration per Run 1	89.788 %	83.109 %	91.051 %
Concentration per Run 2	89.529 %	82.906 %	91.257 %
Concentration per Run 3	89.549 %	82.844 %	90.412 %
Concentration RSD	0.2 %	0.2 %	0.5 %
Concentration SD	0.1 %	0.1 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,210.319 ppm	108.355 ppm	115.361 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,213.593 ppm	106.764 ppm	113.932 ppm
Concentration per Run 2	1,183.712 ppm	108.646 ppm	115.887 ppm
Concentration per Run 3	1,233.652 ppm	109.655 ppm	116.265 ppm
Concentration RSD	2.1 %	1.4 %	1.1 %
Concentration SD	25.1 ppm	1.5 ppm	1.3 ppm

	Cu 324.754 {104} (Radial)
Concentration average	102.300 ppm
Concentration per Run 1	101.596 ppm
Concentration per Run 2	100.969 ppm
Concentration per Run 3	104.336 ppm
Concentration RSD	1.8 %
Concentration SD	1.8 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	47 cps	75 cps	3,920 cps	238,015 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	89,790 cps	281 cps	20 cps	1,379 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	2,888 cps	160 cps	5,079 cps	101,477 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	591 cps	137 cps	712 cps	523 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	176 cps	214 cps	82 cps	93 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,657 cps	849 cps	68,745 cps	2,895 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	136 cps	80 cps	1,838 cps	1,388 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	11,381 cps	6,110 cps	10,307 cps	3,188 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	156,929 cps	72 cps	879 cps	1,214 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	185 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729024-02 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 2:19:39 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,934.478 ppm	-2.229 ppm	0.052 ppm
Concentration per Run 1	2,881.964 ppm	-1.961 ppm	0.083 ppm
Concentration per Run 2	2,925.942 ppm	-2.019 ppm	0.053 ppm
Concentration per Run 3	2,995.528 ppm	-2.707 ppm	0.019 ppm
Concentration RSD	2.0 %	18.6 %	62.1 %
Concentration SD	57.3 ppm	0.4 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	131,202.669 ppm	145,434.238 ppm	2,444.750 ppm
Concentration per Run 1	129,408.669 ppm	143,502.863 ppm	2,414.527 ppm
Concentration per Run 2	130,902.954 ppm	144,777.745 ppm	2,439.643 ppm
Concentration per Run 3	133,296.385 ppm	148,022.107 ppm	2,480.079 ppm
Concentration RSD	1.5 %	1.6 %	1.4 %
Concentration SD	1,961.1 ppm	2,330.0 ppm	33.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,704.693 ppm	895.175 ppm	6.565 ppm
Concentration per Run 1	2,645.669 ppm	897.252 ppm	6.312 ppm
Concentration per Run 2	2,677.899 ppm	889.210 ppm	6.606 ppm
Concentration per Run 3	2,790.511 ppm	899.063 ppm	6.776 ppm
Concentration RSD	2.8 %	0.6 %	3.6 %
Concentration SD	76.0 ppm	5.2 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,461.532 ppm	263.371 ppm	829.066 ppm
Concentration per Run 1	1,436.184 ppm	256.606 ppm	823.493 ppm
Concentration per Run 2	1,460.495 ppm	263.883 ppm	825.123 ppm
Concentration per Run 3	1,487.918 ppm	269.625 ppm	838.582 ppm
Concentration RSD	1.8 %	2.5 %	1.0 %
Concentration SD	25.9 ppm	6.5 ppm	8.3 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	82.477 ppm	5.566 ppm	1.235 ppm
Concentration per Run 1	81.768 ppm	6.081 ppm	1.119 ppm
Concentration per Run 2	82.485 ppm	3.785 ppm	1.326 ppm
Concentration per Run 3	83.180 ppm	6.831 ppm	1.261 ppm
Concentration RSD	0.9 %	28.5 %	8.6 %
Concentration SD	0.7 ppm	1.6 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	2.530 ppm	1.398 ppm	1.494 ppm
Concentration per Run 1	2.471 ppm	1.655 ppm	1.740 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	2.709 ppm	1.259 ppm	1.328 ppm
Concentration per Run 3	2.410 ppm	1.279 ppm	1.415 ppm
Concentration RSD	6.3 %	15.9 %	14.5 %
Concentration SD	0.2 ppm	0.2 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.120 ppm	1.880 ppm	27.565 ppm
Concentration per Run 1	-0.204 ppm	2.341 ppm	27.572 ppm
Concentration per Run 2	0.362 ppm	1.819 ppm	27.457 ppm
Concentration per Run 3	-0.519 ppm	1.480 ppm	27.666 ppm
Concentration RSD	371.6 %	23.1 %	0.4 %
Concentration SD	0.4 ppm	0.4 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.279 ppm	99,484.749 ppm	292.370 ppm
Concentration per Run 1	0.287 ppm	99,142.512 ppm	289.888 ppm
Concentration per Run 2	0.282 ppm	99,410.837 ppm	292.292 ppm
Concentration per Run 3	0.268 ppm	99,900.898 ppm	294.929 ppm
Concentration RSD	3.4 %	0.4 %	0.9 %
Concentration SD	0.0 ppm	384.6 ppm	2.5 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.434 ppm	0.617 ppm	-0.123 ppm
Concentration per Run 1	-0.839 ppm	1.287 ppm	-0.102 ppm
Concentration per Run 2	-0.461 ppm	0.751 ppm	-0.125 ppm
Concentration per Run 3	-0.003 ppm	-0.186 ppm	-0.142 ppm
Concentration RSD	96.4 %	120.7 %	16.0 %
Concentration SD	0.4 ppm	0.7 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	3.032 ppm	37.101 ppm	95.973 %
Concentration per Run 1	3.307 ppm	36.587 ppm	96.620 %
Concentration per Run 2	2.607 ppm	37.081 ppm	95.908 %
Concentration per Run 3	3.181 ppm	37.635 ppm	95.390 %
Concentration RSD	12.3 %	1.4 %	0.6 %
Concentration SD	0.4 ppm	0.5 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.214 %	84.852 %	91.614 %
Concentration per Run 1	91.290 %	84.992 %	91.604 %
Concentration per Run 2	91.395 %	84.988 %	91.781 %
Concentration per Run 3	90.957 %	84.575 %	91.457 %
Concentration RSD	0.3 %	0.3 %	0.2 %
Concentration SD	0.2 %	0.2 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	191.377 ppm	8.665 ppm	0.019 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	203.525 ppm	8.588 ppm	0.032 ppm
Concentration per Run 2	157.151 ppm	8.681 ppm	0.043 ppm
Concentration per Run 3	213.453 ppm	8.725 ppm	-0.019 ppm
Concentration RSD	15.7 %	0.8 %	174.3 %
Concentration SD	30.1 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.116 ppm
Concentration per Run 1	0.431 ppm
Concentration per Run 2	-0.054 ppm
Concentration per Run 3	-0.724 ppm
Concentration RSD	501.9 %
Concentration SD	0.6 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	348 cps	1 cps	-1 cps	175,338 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	65,837 cps	2,427 cps	150 cps	1,072 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	190 cps	197 cps	1,066 cps	62,284 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	450 cps	10 cps	8 cps	14 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	4 cps	-3 cps	-1 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	409 cps	5 cps	48,176 cps	1,482 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	-8 cps	58 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	3,908 cps	6,156 cps	10,490 cps	3,261 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,151 cps	-111 cps	72 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729024-04 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 2:24:03 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	3,571.447 ppm	3.606 ppm	0.108 ppm
Concentration per Run 1	3,539.095 ppm	1.420 ppm	0.133 ppm
Concentration per Run 2	3,586.778 ppm	4.400 ppm	0.141 ppm
Concentration per Run 3	3,588.469 ppm	4.999 ppm	0.051 ppm
Concentration RSD	0.8 %	53.2 %	46.2 %
Concentration SD	28.0 ppm	1.9 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	115,654.600 ppm	128,137.827 ppm	2,933.398 ppm
Concentration per Run 1	114,633.069 ppm	126,779.934 ppm	2,901.146 ppm
Concentration per Run 2	115,715.633 ppm	128,133.134 ppm	2,935.968 ppm
Concentration per Run 3	116,615.098 ppm	129,500.413 ppm	2,963.079 ppm
Concentration RSD	0.9 %	1.1 %	1.1 %
Concentration SD	992.4 ppm	1,360.2 ppm	31.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	3,258.425 ppm	992.481 ppm	7.337 ppm
Concentration per Run 1	3,196.143 ppm	983.958 ppm	7.236 ppm
Concentration per Run 2	3,274.351 ppm	990.042 ppm	7.236 ppm
Concentration per Run 3	3,304.780 ppm	1,003.442 ppm	7.540 ppm
Concentration RSD	1.7 %	1.0 %	2.4 %
Concentration SD	56.0 ppm	10.0 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,797.788 ppm	454.332 ppm	785.078 ppm
Concentration per Run 1	1,739.327 ppm	448.158 ppm	778.337 ppm
Concentration per Run 2	1,827.772 ppm	453.559 ppm	783.169 ppm
Concentration per Run 3	1,826.263 ppm	461.277 ppm	793.729 ppm
Concentration RSD	2.8 %	1.5 %	1.0 %
Concentration SD	50.6 ppm	6.6 ppm	7.9 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	96.353 ppm	6.362 ppm	1.322 ppm
Concentration per Run 1	95.722 ppm	7.153 ppm	1.351 ppm
Concentration per Run 2	95.819 ppm	5.505 ppm	1.358 ppm
Concentration per Run 3	97.518 ppm	6.427 ppm	1.258 ppm
Concentration RSD	1.0 %	13.0 %	4.2 %
Concentration SD	1.0 ppm	0.8 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	2.542 ppm	1.526 ppm	1.272 ppm
Concentration per Run 1	2.541 ppm	1.782 ppm	1.605 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	2.645 ppm	1.330 ppm	1.080 ppm
Concentration per Run 3	2.440 ppm	1.466 ppm	1.132 ppm
Concentration RSD	4.0 %	15.2 %	22.7 %
Concentration SD	0.1 ppm	0.2 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.497 ppm	0.514 ppm	29.375 ppm
Concentration per Run 1	-0.382 ppm	0.708 ppm	29.173 ppm
Concentration per Run 2	-1.347 ppm	0.322 ppm	29.506 ppm
Concentration per Run 3	0.238 ppm	0.512 ppm	29.445 ppm
Concentration RSD	160.6 %	37.5 %	0.6 %
Concentration SD	0.8 ppm	0.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.241 ppm	84,381.285 ppm	520.018 ppm
Concentration per Run 1	0.214 ppm	84,025.758 ppm	514.830 ppm
Concentration per Run 2	0.242 ppm	84,486.760 ppm	523.848 ppm
Concentration per Run 3	0.269 ppm	84,631.337 ppm	521.375 ppm
Concentration RSD	11.3 %	0.4 %	0.9 %
Concentration SD	0.0 ppm	316.3 ppm	4.7 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.545 ppm	0.316 ppm	0.022 ppm
Concentration per Run 1	0.056 ppm	-1.092 ppm	-0.114 ppm
Concentration per Run 2	-1.464 ppm	1.788 ppm	0.100 ppm
Concentration per Run 3	-0.228 ppm	0.251 ppm	0.081 ppm
Concentration RSD	148.2 %	456.4 %	528.3 %
Concentration SD	0.8 ppm	1.4 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	3.608 ppm	42.970 ppm	96.563 %
Concentration per Run 1	3.509 ppm	42.690 ppm	96.564 %
Concentration per Run 2	3.688 ppm	42.915 ppm	96.440 %
Concentration per Run 3	3.627 ppm	43.306 ppm	96.685 %
Concentration RSD	2.5 %	0.7 %	0.1 %
Concentration SD	0.1 ppm	0.3 ppm	0.1 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.976 %	85.639 %	91.866 %
Concentration per Run 1	92.191 %	85.634 %	91.945 %
Concentration per Run 2	91.867 %	85.548 %	91.807 %
Concentration per Run 3	91.871 %	85.735 %	91.847 %
Concentration RSD	0.2 %	0.1 %	0.1 %
Concentration SD	0.2 %	0.1 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	451.553 ppm	9.562 ppm	0.007 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	418.575 ppm	9.556 ppm	-0.029 ppm
Concentration per Run 2	517.318 ppm	9.496 ppm	0.009 ppm
Concentration per Run 3	418.764 ppm	9.633 ppm	0.042 ppm
Concentration RSD	12.6 %	0.7 %	505.7 %
Concentration SD	57.0 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.842 ppm
Concentration per Run 1	1.794 ppm
Concentration per Run 2	1.117 ppm
Concentration per Run 3	2.614 ppm
Concentration RSD	40.7 %
Concentration SD	0.7 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	5 cps	2 cps	161,872 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	60,751 cps	3,045 cps	189 cps	1,236 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	219 cps	253 cps	1,920 cps	61,766 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	551 cps	11 cps	9 cps	15 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	4 cps	-4 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	457 cps	5 cps	42,886 cps	2,734 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	68 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	4,722 cps	6,194 cps	10,578 cps	3,291 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,586 cps	-62 cps	83 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	10 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type QC Analysis Date 10/30/2014 2:31:32 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	9.266 ppm	1.887 ppm	0.185 ppm	46.286 ppm
Concentration per Run 1	9.237 ppm	1.883 ppm	0.184 ppm	46.020 ppm
Concentration per Run 2	9.360 ppm	1.890 ppm	0.185 ppm	46.410 ppm
Concentration per Run 3	9.201 ppm	1.890 ppm	0.186 ppm	46.429 ppm
Concentration RSD	0.9 %	0.2 %	0.5 %	0.5 %
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	49.819 ppm	9.262 ppm	10.406 ppm	47.761 ppm
Concentration per Run 1	49.382 ppm	9.203 ppm	10.378 ppm	47.420 ppm
Concentration per Run 2	50.016 ppm	9.280 ppm	10.348 ppm	47.859 ppm
Concentration per Run 3	50.058 ppm	9.303 ppm	10.490 ppm	48.004 ppm
Concentration RSD	0.8 %	0.6 %	0.7 %	0.6 %
Concentration SD	0.4 ppm	0.1 ppm	0.1 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	1.424 ppm	9.420 ppm	46.520 ppm	0.945 ppm
Concentration per Run 1	1.417 ppm	9.303 ppm	46.277 ppm	0.940 ppm
Concentration per Run 2	1.422 ppm	9.514 ppm	46.580 ppm	0.945 ppm
Concentration per Run 3	1.433 ppm	9.444 ppm	46.703 ppm	0.951 ppm
Concentration RSD	0.6 %	1.1 %	0.5 %	0.6 %
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	0.959 ppm	0.943 ppm	0.991 ppm	1.999 ppm
Concentration per Run 1	0.952 ppm	0.941 ppm	0.988 ppm	1.996 ppm
Concentration per Run 2	0.961 ppm	0.947 ppm	0.990 ppm	1.998 ppm
Concentration per Run 3	0.963 ppm	0.942 ppm	0.994 ppm	2.002 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	0.2 %
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	0.490 ppm	1.957 ppm	1.928 ppm	1.963 ppm
Concentration per Run 1	0.489 ppm	1.953 ppm	1.927 ppm	1.972 ppm
Concentration per Run 2	0.491 ppm	1.961 ppm	1.925 ppm	1.958 ppm
Concentration per Run 3	0.489 ppm	1.959 ppm	1.931 ppm	1.960 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.487 ppm	0.495 ppm	4.543 ppm	1.925 ppm
Concentration per Run 1	0.488 ppm	0.496 ppm	4.551 ppm	1.920 ppm
Concentration per Run 2	0.487 ppm	0.494 ppm	4.542 ppm	1.929 ppm
Concentration per Run 3	0.487 ppm	0.495 ppm	4.534 ppm	1.927 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	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	1.951 ppm	2.029 ppm	0.984 ppm	0.984 ppm
Concentration per Run 1	1.957 ppm	2.026 ppm	0.979 ppm	0.981 ppm
Concentration per Run 2	1.947 ppm	2.026 ppm	0.983 ppm	0.987 ppm
Concentration per Run 3	1.950 ppm	2.034 ppm	0.990 ppm	0.985 ppm
Concentration RSD	0.3 %	0.2 %	0.6 %	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	1.003 ppm	98.019 %	94.650 %	87.709 %
Concentration per Run 1	0.999 ppm	98.646 %	94.408 %	87.696 %
Concentration per Run 2	1.005 ppm	97.587 %	94.955 %	87.992 %
Concentration per Run 3	1.004 ppm	97.825 %	94.587 %	87.440 %
Concentration RSD	0.3 %	0.6 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.6 %	0.3 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	93.179 %	48.547 ppm	2.905 ppm	0.525 ppm
Concentration per Run 1	93.582 %	48.234 ppm	2.896 ppm	0.525 ppm
Concentration per Run 2	92.990 %	48.529 ppm	2.911 ppm	0.525 ppm
Concentration per Run 3	92.964 %	48.879 ppm	2.907 ppm	0.525 ppm
Concentration RSD	0.4 %	0.7 %	0.3 %	0.1 %
Concentration SD	0.3 %	0.3 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.867 ppm
Concentration per Run 1	1.857 ppm
Concentration per Run 2	1.868 ppm
Concentration per Run 3	1.875 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	568 cps	711 cps	3,856 cps	32,274 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11,764 cps	4,776 cps	300 cps	28,179 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	19,647 cps	661 cps	97,485 cps	36,999 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,734 cps	641 cps	3,404 cps	5,092 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	432 cps	2,126 cps	1,251 cps	870 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,804 cps	2,055 cps	1,172 cps	5,018 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,255 cps	757 cps	8,905 cps	6,909 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	54,663 cps	6,287 cps	10,885 cps	3,371 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	160,851 cps	4,403 cps	12,702 cps	2,970 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,713 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type QC Analysis Date 10/30/2014 2:35:38 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	-0.001 ppm	-0.006 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.013 ppm	-0.009 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	-0.007 ppm	-0.008 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.018 ppm	-0.001 ppm	0.000 ppm	0.001 ppm
Concentration RSD	1,971.6 %	72.7 %	32.9 %	646.8 %
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	0.005 ppm	0.002 ppm	-0.025 ppm	0.013 ppm
Concentration per Run 1	0.003 ppm	0.004 ppm	-0.052 ppm	0.016 ppm
Concentration per Run 2	0.008 ppm	0.002 ppm	-0.030 ppm	0.012 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.006 ppm	0.010 ppm
Concentration RSD	46.3 %	92.8 %	115.2 %	24.9 %
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	0.013 ppm	0.006 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.010 ppm	0.005 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.006 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.030 ppm	0.009 ppm	0.000 ppm
Concentration RSD	488.9 %	107.8 %	31.0 %	115.0 %
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	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	129.5 %	1,677.7 %	105.6 %	479.5 %
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	0.001 ppm	0.002 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.001 ppm	0.003 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.001 ppm	0.002 ppm
Concentration RSD	1,415.9 %	2,649.5 %	140.4 %	79.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.008 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.008 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.006 ppm	0.000 ppm
Concentration RSD	110.4 %	5,071.8 %	14.2 %	2,309.3 %
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	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.002 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	124.1 %	377.1 %	44.2 %	257.6 %
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	97.395 %	99.655 %	100.028 %
Concentration per Run 1	0.000 ppm	97.042 %	99.397 %	99.862 %
Concentration per Run 2	0.000 ppm	97.127 %	99.992 %	100.251 %
Concentration per Run 3	0.000 ppm	98.018 %	99.574 %	99.971 %
Concentration RSD	32.1 %	0.6 %	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	98.202 %	0.006 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	98.009 %	-0.091 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	98.101 %	0.082 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	98.497 %	0.028 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.3 %	1,379.5 %	44.3 %	664.6 %
Concentration SD	0.3 %	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	0.000 ppm
Concentration per Run 3	-0.001 ppm
Concentration RSD	135.2 %
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	7 cps	1 cps	-1 cps	49 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	16 cps	16 cps	1 cps	70 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	17 cps	1 cps	20 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	0 cps	3 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	2 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	3 cps	3 cps	10 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	2 cps	-2 cps	-11 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	16 cps	6,247 cps	11,461 cps	3,844 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	169,523 cps	-147 cps	1 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type UNKNOWN Analysis Date 10/30/2014 2:48:17 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	6,043.983 ppm	4.762 ppm	0.285 ppm
Concentration per Run 1	5,970.894 ppm	6.496 ppm	0.362 ppm
Concentration per Run 2	6,076.757 ppm	3.549 ppm	0.223 ppm
Concentration per Run 3	6,084.298 ppm	4.242 ppm	0.268 ppm
Concentration RSD	1.0 %	32.4 %	24.9 %
Concentration SD	63.4 ppm	1.5 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	165,223.904 ppm	183,901.120 ppm	5,310.629 ppm
Concentration per Run 1	162,557.943 ppm	180,798.455 ppm	5,247.252 ppm
Concentration per Run 2	166,112.782 ppm	184,609.551 ppm	5,327.435 ppm
Concentration per Run 3	167,000.986 ppm	186,295.353 ppm	5,357.200 ppm
Concentration RSD	1.4 %	1.5 %	1.1 %
Concentration SD	2,351.1 ppm	2,816.1 ppm	56.9 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	5,825.531 ppm	1,704.187 ppm	10.423 ppm
Concentration per Run 1	5,737.722 ppm	1,683.747 ppm	9.884 ppm
Concentration per Run 2	5,903.137 ppm	1,716.213 ppm	10.610 ppm
Concentration per Run 3	5,835.735 ppm	1,712.601 ppm	10.775 ppm
Concentration RSD	1.4 %	1.0 %	4.5 %
Concentration SD	83.2 ppm	17.8 ppm	0.5 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3,162.627 ppm	419.779 ppm	2,187.138 ppm
Concentration per Run 1	3,103.077 ppm	414.044 ppm	2,169.011 ppm
Concentration per Run 2	3,181.756 ppm	422.763 ppm	2,190.628 ppm
Concentration per Run 3	3,203.048 ppm	422.531 ppm	2,201.775 ppm
Concentration RSD	1.7 %	1.2 %	0.8 %
Concentration SD	52.7 ppm	5.0 ppm	16.7 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	92.131 ppm	11.792 ppm	2.713 ppm
Concentration per Run 1	90.161 ppm	11.006 ppm	2.744 ppm
Concentration per Run 2	92.670 ppm	13.156 ppm	2.668 ppm
Concentration per Run 3	93.560 ppm	11.215 ppm	2.727 ppm
Concentration RSD	1.9 %	10.1 %	1.5 %
Concentration SD	1.8 ppm	1.2 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	6.063 ppm	3.362 ppm	2.712 ppm
Concentration per Run 1	5.697 ppm	3.033 ppm	2.516 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	6.420 ppm	3.663 ppm	2.651 ppm
Concentration per Run 3	6.073 ppm	3.390 ppm	2.967 ppm
Concentration RSD	6.0 %	9.4 %	8.5 %
Concentration SD	0.4 ppm	0.3 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.052 ppm	2.896 ppm	79.420 ppm
Concentration per Run 1	-0.280 ppm	2.682 ppm	78.328 ppm
Concentration per Run 2	0.457 ppm	4.063 ppm	79.715 ppm
Concentration per Run 3	-0.333 ppm	1.944 ppm	80.216 ppm
Concentration RSD	851.3 %	37.1 %	1.2 %
Concentration SD	0.4 ppm	1.1 ppm	1.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.171 ppm	111,550.047 ppm	335.229 ppm
Concentration per Run 1	0.096 ppm	109,727.365 ppm	332.098 ppm
Concentration per Run 2	0.325 ppm	112,110.848 ppm	334.865 ppm
Concentration per Run 3	0.092 ppm	112,811.930 ppm	338.724 ppm
Concentration RSD	78.0 %	1.4 %	1.0 %
Concentration SD	0.1 ppm	1,616.9 ppm	3.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.120 ppm	1.168 ppm	0.027 ppm
Concentration per Run 1	-0.300 ppm	0.262 ppm	0.089 ppm
Concentration per Run 2	0.472 ppm	2.011 ppm	-0.001 ppm
Concentration per Run 3	0.189 ppm	1.230 ppm	-0.007 ppm
Concentration RSD	325.2 %	75.0 %	200.5 %
Concentration SD	0.4 ppm	0.9 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	7.673 ppm	111.956 ppm	94.635 %
Concentration per Run 1	7.378 ppm	110.561 ppm	95.793 %
Concentration per Run 2	7.532 ppm	111.691 ppm	93.883 %
Concentration per Run 3	8.109 ppm	113.615 ppm	94.230 %
Concentration RSD	5.0 %	1.4 %	1.1 %
Concentration SD	0.4 ppm	1.5 ppm	1.0 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	90.352 %	82.709 %	89.818 %
Concentration per Run 1	90.384 %	82.838 %	89.959 %
Concentration per Run 2	90.461 %	82.755 %	89.802 %
Concentration per Run 3	90.211 %	82.533 %	89.694 %
Concentration RSD	0.1 %	0.2 %	0.1 %
Concentration SD	0.1 %	0.2 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	335.131 ppm	16.188 ppm	0.056 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	421.303 ppm	15.942 ppm	0.086 ppm
Concentration per Run 2	333.555 ppm	16.210 ppm	0.041 ppm
Concentration per Run 3	250.536 ppm	16.413 ppm	0.041 ppm
Concentration RSD	25.5 %	1.5 %	46.3 %
Concentration SD	85.4 ppm	0.2 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	2.316 ppm
Concentration per Run 1	2.729 ppm
Concentration per Run 2	1.720 ppm
Concentration per Run 3	2.498 ppm
Concentration RSD	22.8 %
Concentration SD	0.5 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	685 cps	6 cps	8 cps	213,265 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	80,409 cps	5,075 cps	311 cps	1,920 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	282 cps	412 cps	1,637 cps	158,721 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	486 cps	17 cps	17 cps	30 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	7 cps	-3 cps	0 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,138 cps	4 cps	52,415 cps	1,630 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	116 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	11,306 cps	6,070 cps	10,391 cps	3,178 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	155,051 cps	-85 cps	130 cps	5 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	10 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type UNKNOWN Analysis Date 10/30/2014 2:52:40 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	4,716.863 ppm	0.457 ppm	0.095 ppm
Concentration per Run 1	4,732.345 ppm	-1.343 ppm	0.078 ppm
Concentration per Run 2	4,718.334 ppm	0.769 ppm	0.115 ppm
Concentration per Run 3	4,699.911 ppm	1.946 ppm	0.091 ppm
Concentration RSD	0.3 %	364.3 %	19.9 %
Concentration SD	16.3 ppm	1.7 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	102,981.933 ppm	113,555.313 ppm	3,846.403 ppm
Concentration per Run 1	102,096.055 ppm	112,469.908 ppm	3,817.804 ppm
Concentration per Run 2	103,548.847 ppm	113,826.888 ppm	3,870.691 ppm
Concentration per Run 3	103,300.896 ppm	114,369.144 ppm	3,850.714 ppm
Concentration RSD	0.8 %	0.9 %	0.7 %
Concentration SD	777.1 ppm	978.3 ppm	26.7 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4,278.305 ppm	1,268.927 ppm	14.128 ppm
Concentration per Run 1	4,235.998 ppm	1,257.704 ppm	13.830 ppm
Concentration per Run 2	4,324.127 ppm	1,277.502 ppm	14.339 ppm
Concentration per Run 3	4,274.789 ppm	1,271.575 ppm	14.215 ppm
Concentration RSD	1.0 %	0.8 %	1.9 %
Concentration SD	44.2 ppm	10.2 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,732.195 ppm	268.970 ppm	634.815 ppm
Concentration per Run 1	2,704.462 ppm	267.734 ppm	629.714 ppm
Concentration per Run 2	2,767.948 ppm	269.953 ppm	636.417 ppm
Concentration per Run 3	2,724.174 ppm	269.222 ppm	638.316 ppm
Concentration RSD	1.2 %	0.4 %	0.7 %
Concentration SD	32.5 ppm	1.1 ppm	4.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	138.824 ppm	11.543 ppm	1.825 ppm
Concentration per Run 1	137.404 ppm	12.960 ppm	1.815 ppm
Concentration per Run 2	139.103 ppm	11.245 ppm	1.869 ppm
Concentration per Run 3	139.967 ppm	10.425 ppm	1.789 ppm
Concentration RSD	0.9 %	11.2 %	2.2 %
Concentration SD	1.3 ppm	1.3 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	3.526 ppm	2.016 ppm	1.464 ppm
Concentration per Run 1	3.540 ppm	2.150 ppm	1.597 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	3.494 ppm	2.147 ppm	1.385 ppm
Concentration per Run 3	3.544 ppm	1.750 ppm	1.410 ppm
Concentration RSD	0.8 %	11.4 %	7.9 %
Concentration SD	0.0 ppm	0.2 ppm	0.1 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.102 ppm	2.462 ppm	35.824 ppm
Concentration per Run 1	-0.003 ppm	2.758 ppm	35.680 ppm
Concentration per Run 2	-0.459 ppm	2.675 ppm	35.873 ppm
Concentration per Run 3	0.157 ppm	1.954 ppm	35.919 ppm
Concentration RSD	313.8 %	18.0 %	0.4 %
Concentration SD	0.3 ppm	0.4 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.282 ppm	74,368.168 ppm	187.521 ppm
Concentration per Run 1	0.289 ppm	74,168.765 ppm	185.966 ppm
Concentration per Run 2	0.173 ppm	74,496.217 ppm	187.696 ppm
Concentration per Run 3	0.383 ppm	74,439.524 ppm	188.903 ppm
Concentration RSD	37.4 %	0.2 %	0.8 %
Concentration SD	0.1 ppm	175.0 ppm	1.5 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.684 ppm	-0.399 ppm	-0.136 ppm
Concentration per Run 1	-1.037 ppm	0.258 ppm	-0.222 ppm
Concentration per Run 2	-0.061 ppm	-0.324 ppm	-0.238 ppm
Concentration per Run 3	-0.954 ppm	-1.131 ppm	0.051 ppm
Concentration RSD	79.1 %	174.7 %	119.5 %
Concentration SD	0.5 ppm	0.7 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	4.728 ppm	60.203 ppm	94.549 %
Concentration per Run 1	4.516 ppm	59.871 ppm	94.820 %
Concentration per Run 2	4.736 ppm	60.163 ppm	93.832 %
Concentration per Run 3	4.934 ppm	60.577 ppm	94.995 %
Concentration RSD	4.4 %	0.6 %	0.7 %
Concentration SD	0.2 ppm	0.4 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	93.435 %	86.496 %	91.992 %
Concentration per Run 1	93.563 %	86.435 %	91.930 %
Concentration per Run 2	93.286 %	86.462 %	92.274 %
Concentration per Run 3	93.457 %	86.592 %	91.771 %
Concentration RSD	0.1 %	0.1 %	0.3 %
Concentration SD	0.1 %	0.1 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	229.820 ppm	12.422 ppm	-0.050 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	237.030 ppm	12.392 ppm	-0.098 ppm
Concentration per Run 2	181.802 ppm	12.374 ppm	0.023 ppm
Concentration per Run 3	270.629 ppm	12.499 ppm	-0.074 ppm
Concentration RSD	19.5 %	0.5 %	129.9 %
Concentration SD	44.9 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.185 ppm
Concentration per Run 1	2.777 ppm
Concentration per Run 2	1.026 ppm
Concentration per Run 3	-0.247 ppm
Concentration RSD	128.1 %
Concentration SD	1.5 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	558 cps	3 cps	1 cps	138,365 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	51,682 cps	3,829 cps	238 cps	1,501 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	370 cps	1,094 cps	47,942 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	763 cps	18 cps	12 cps	19 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	3 cps	5 cps	-3 cps	0 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	554 cps	5 cps	37,645 cps	981 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	-8 cps	82 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	6,491 cps	6,064 cps	10,746 cps	3,324 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,802 cps	-102 cps	107 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729026-02 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 2:57:03 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,412.510 ppm	1.630 ppm	-0.007 ppm
Concentration per Run 1	2,414.765 ppm	-0.897 ppm	-0.017 ppm
Concentration per Run 2	2,419.146 ppm	5.628 ppm	-0.003 ppm
Concentration per Run 3	2,403.619 ppm	0.161 ppm	-0.002 ppm
Concentration RSD	0.3 %	214.8 %	107.8 %
Concentration SD	8.0 ppm	3.5 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	112,476.775 ppm	124,356.574 ppm	2,016.621 ppm
Concentration per Run 1	112,603.121 ppm	124,294.938 ppm	2,024.003 ppm
Concentration per Run 2	112,218.966 ppm	123,913.135 ppm	2,011.192 ppm
Concentration per Run 3	112,608.239 ppm	124,861.650 ppm	2,014.668 ppm
Concentration RSD	0.2 %	0.4 %	0.3 %
Concentration SD	223.3 ppm	477.3 ppm	6.6 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,230.531 ppm	662.028 ppm	6.191 ppm
Concentration per Run 1	2,218.034 ppm	658.677 ppm	5.894 ppm
Concentration per Run 2	2,275.268 ppm	657.766 ppm	6.585 ppm
Concentration per Run 3	2,198.292 ppm	669.641 ppm	6.093 ppm
Concentration RSD	1.8 %	1.0 %	5.7 %
Concentration SD	40.0 ppm	6.6 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,234.839 ppm	237.250 ppm	623.735 ppm
Concentration per Run 1	1,227.242 ppm	236.277 ppm	622.145 ppm
Concentration per Run 2	1,238.749 ppm	237.977 ppm	624.173 ppm
Concentration per Run 3	1,238.525 ppm	237.495 ppm	624.888 ppm
Concentration RSD	0.5 %	0.4 %	0.2 %
Concentration SD	6.6 ppm	0.9 ppm	1.4 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	90.196 ppm	7.050 ppm	1.174 ppm
Concentration per Run 1	90.679 ppm	6.887 ppm	1.223 ppm
Concentration per Run 2	89.038 ppm	10.888 ppm	1.038 ppm
Concentration per Run 3	90.872 ppm	3.376 ppm	1.260 ppm
Concentration RSD	1.1 %	53.3 %	10.1 %
Concentration SD	1.0 ppm	3.8 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.840 ppm	1.055 ppm	1.207 ppm
Concentration per Run 1	1.671 ppm	1.155 ppm	1.173 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.950 ppm	1.074 ppm	0.965 ppm
Concentration per Run 3	1.901 ppm	0.937 ppm	1.482 ppm
Concentration RSD	8.1 %	10.4 %	21.6 %
Concentration SD	0.1 ppm	0.1 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.186 ppm	1.201 ppm	19.529 ppm
Concentration per Run 1	0.877 ppm	2.534 ppm	19.635 ppm
Concentration per Run 2	-0.678 ppm	0.419 ppm	19.459 ppm
Concentration per Run 3	0.358 ppm	0.649 ppm	19.493 ppm
Concentration RSD	425.6 %	96.6 %	0.5 %
Concentration SD	0.8 ppm	1.2 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.207 ppm	81,606.764 ppm	248.242 ppm
Concentration per Run 1	0.227 ppm	81,528.080 ppm	247.141 ppm
Concentration per Run 2	0.205 ppm	81,454.396 ppm	247.945 ppm
Concentration per Run 3	0.188 ppm	81,837.817 ppm	249.640 ppm
Concentration RSD	9.5 %	0.2 %	0.5 %
Concentration SD	0.0 ppm	203.5 ppm	1.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.653 ppm	-0.486 ppm	-0.220 ppm
Concentration per Run 1	0.600 ppm	-0.521 ppm	-0.182 ppm
Concentration per Run 2	0.377 ppm	-1.030 ppm	-0.467 ppm
Concentration per Run 3	0.982 ppm	0.095 ppm	-0.012 ppm
Concentration RSD	46.9 %	116.0 %	104.2 %
Concentration SD	0.3 ppm	0.6 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	2.382 ppm	26.733 ppm	94.658 %
Concentration per Run 1	2.334 ppm	26.573 ppm	93.904 %
Concentration per Run 2	2.419 ppm	26.803 ppm	95.195 %
Concentration per Run 3	2.393 ppm	26.822 ppm	94.876 %
Concentration RSD	1.8 %	0.5 %	0.7 %
Concentration SD	0.0 ppm	0.1 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.999 %	86.579 %	91.685 %
Concentration per Run 1	93.110 %	86.558 %	91.433 %
Concentration per Run 2	93.214 %	86.871 %	91.885 %
Concentration per Run 3	92.673 %	86.307 %	91.738 %
Concentration RSD	0.3 %	0.3 %	0.3 %
Concentration SD	0.3 %	0.3 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	159.253 ppm	7.111 ppm	0.013 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	94.378 ppm	7.143 ppm	-0.018 ppm
Concentration per Run 2	175.281 ppm	7.073 ppm	-0.038 ppm
Concentration per Run 3	208.100 ppm	7.117 ppm	0.096 ppm
Concentration RSD	36.8 %	0.5 %	544.1 %
Concentration SD	58.5 ppm	0.0 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.275 ppm
Concentration per Run 1	-1.114 ppm
Concentration per Run 2	2.695 ppm
Concentration per Run 3	-0.755 ppm
Concentration RSD	764.2 %
Concentration SD	2.1 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	289 cps	4 cps	-3 cps	151,294 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	56,662 cps	2,017 cps	125 cps	813 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	181 cps	167 cps	967 cps	47,160 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	496 cps	12 cps	8 cps	11 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	4 cps	-3 cps	-1 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	302 cps	4 cps	41,115 cps	1,288 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	-10 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	2,878 cps	6,071 cps	10,696 cps	3,327 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,273 cps	-115 cps	61 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729026-03 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:01:28 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,923.273 ppm	1.948 ppm	0.041 ppm
Concentration per Run 1	2,909.795 ppm	4.166 ppm	0.029 ppm
Concentration per Run 2	2,897.758 ppm	0.800 ppm	0.037 ppm
Concentration per Run 3	2,962.265 ppm	0.879 ppm	0.058 ppm
Concentration RSD	1.2 %	98.6 %	36.7 %
Concentration SD	34.3 ppm	1.9 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	71,303.599 ppm	78,196.557 ppm	2,404.800 ppm
Concentration per Run 1	71,231.391 ppm	77,965.543 ppm	2,399.619 ppm
Concentration per Run 2	71,059.771 ppm	77,977.002 ppm	2,401.078 ppm
Concentration per Run 3	71,619.636 ppm	78,647.125 ppm	2,413.703 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %
Concentration SD	286.8 ppm	390.2 ppm	7.7 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,618.759 ppm	776.514 ppm	7.622 ppm
Concentration per Run 1	2,631.682 ppm	786.996 ppm	7.541 ppm
Concentration per Run 2	2,647.814 ppm	763.727 ppm	7.617 ppm
Concentration per Run 3	2,576.780 ppm	778.818 ppm	7.709 ppm
Concentration RSD	1.4 %	1.5 %	1.1 %
Concentration SD	37.2 ppm	11.8 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,589.495 ppm	193.016 ppm	496.920 ppm
Concentration per Run 1	1,593.052 ppm	197.932 ppm	496.416 ppm
Concentration per Run 2	1,587.383 ppm	189.417 ppm	495.410 ppm
Concentration per Run 3	1,588.049 ppm	191.700 ppm	498.934 ppm
Concentration RSD	0.2 %	2.3 %	0.4 %
Concentration SD	3.1 ppm	4.4 ppm	1.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	84.580 ppm	4.256 ppm	1.078 ppm
Concentration per Run 1	84.188 ppm	4.525 ppm	0.991 ppm
Concentration per Run 2	84.358 ppm	4.325 ppm	1.055 ppm
Concentration per Run 3	85.195 ppm	3.917 ppm	1.187 ppm
Concentration RSD	0.6 %	7.3 %	9.3 %
Concentration SD	0.5 ppm	0.3 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	2.206 ppm	1.998 ppm	0.978 ppm
Concentration per Run 1	2.249 ppm	1.561 ppm	0.765 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	2.224 ppm	2.334 ppm	0.874 ppm
Concentration per Run 3	2.144 ppm	2.098 ppm	1.296 ppm
Concentration RSD	2.5 %	19.8 %	28.7 %
Concentration SD	0.1 ppm	0.4 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.114 ppm	1.460 ppm	28.115 ppm
Concentration per Run 1	0.202 ppm	1.686 ppm	27.525 ppm
Concentration per Run 2	-0.141 ppm	1.068 ppm	28.132 ppm
Concentration per Run 3	-0.401 ppm	1.626 ppm	28.687 ppm
Concentration RSD	266.4 %	23.3 %	2.1 %
Concentration SD	0.3 ppm	0.3 ppm	0.6 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.245 ppm	52,623.831 ppm	245.246 ppm
Concentration per Run 1	0.245 ppm	51,588.305 ppm	242.712 ppm
Concentration per Run 2	0.240 ppm	52,578.200 ppm	244.595 ppm
Concentration per Run 3	0.252 ppm	53,704.989 ppm	248.430 ppm
Concentration RSD	2.5 %	2.0 %	1.2 %
Concentration SD	0.0 ppm	1,059.1 ppm	2.9 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.083 ppm	-1.664 ppm	-0.039 ppm
Concentration per Run 1	-0.798 ppm	-1.341 ppm	-0.175 ppm
Concentration per Run 2	0.456 ppm	-1.390 ppm	-0.013 ppm
Concentration per Run 3	0.591 ppm	-2.261 ppm	0.070 ppm
Concentration RSD	919.6 %	31.1 %	317.1 %
Concentration SD	0.8 ppm	0.5 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	2.965 ppm	37.243 ppm	96.168 %
Concentration per Run 1	2.991 ppm	37.110 ppm	95.867 %
Concentration per Run 2	3.246 ppm	37.184 ppm	96.455 %
Concentration per Run 3	2.658 ppm	37.436 ppm	96.181 %
Concentration RSD	9.9 %	0.5 %	0.3 %
Concentration SD	0.3 ppm	0.2 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.515 %	88.792 %	93.067 %
Concentration per Run 1	94.414 %	88.822 %	92.823 %
Concentration per Run 2	94.601 %	88.804 %	93.132 %
Concentration per Run 3	94.530 %	88.749 %	93.247 %
Concentration RSD	0.1 %	0.0 %	0.2 %
Concentration SD	0.1 %	0.0 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	234.147 ppm	8.480 ppm	0.019 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	192.576 ppm	8.357 ppm	-0.024 ppm
Concentration per Run 2	158.629 ppm	8.540 ppm	0.111 ppm
Concentration per Run 3	351.237 ppm	8.541 ppm	-0.032 ppm
Concentration RSD	43.9 %	1.3 %	433.3 %
Concentration SD	102.8 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.008 ppm
Concentration per Run 1	-0.021 ppm
Concentration per Run 2	0.972 ppm
Concentration per Run 3	-0.976 ppm
Concentration RSD	12,004.5 %
Concentration SD	1.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	347 cps	4 cps	-1 cps	95,510 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	35,480 cps	2,392 cps	146 cps	940 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	218 cps	214 cps	784 cps	37,406 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	463 cps	8 cps	7 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	3 cps	4 cps	-3 cps	-1 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	432 cps	5 cps	26,410 cps	1,266 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	-3 cps	-7 cps	58 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	3,985 cps	6,168 cps	10,870 cps	3,412 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	160,659 cps	-104 cps	73 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729026-05 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:05:53 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,460.187 ppm	2.117 ppm	-0.021 ppm
Concentration per Run 1	2,437.265 ppm	3.760 ppm	0.001 ppm
Concentration per Run 2	2,451.360 ppm	1.200 ppm	-0.017 ppm
Concentration per Run 3	2,491.937 ppm	1.392 ppm	-0.048 ppm
Concentration RSD	1.2 %	67.3 %	118.0 %
Concentration SD	28.4 ppm	1.4 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	113,335.291 ppm	125,565.968 ppm	2,445.146 ppm
Concentration per Run 1	114,016.462 ppm	126,198.660 ppm	2,451.307 ppm
Concentration per Run 2	113,317.224 ppm	125,632.082 ppm	2,440.802 ppm
Concentration per Run 3	112,672.189 ppm	124,867.164 ppm	2,443.328 ppm
Concentration RSD	0.6 %	0.5 %	0.2 %
Concentration SD	672.3 ppm	668.2 ppm	5.5 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,691.302 ppm	783.853 ppm	5.216 ppm
Concentration per Run 1	2,721.597 ppm	789.026 ppm	5.169 ppm
Concentration per Run 2	2,638.078 ppm	778.588 ppm	5.205 ppm
Concentration per Run 3	2,714.232 ppm	783.944 ppm	5.273 ppm
Concentration RSD	1.7 %	0.7 %	1.0 %
Concentration SD	46.2 ppm	5.2 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,365.024 ppm	326.524 ppm	651.075 ppm
Concentration per Run 1	1,364.528 ppm	328.805 ppm	654.770 ppm
Concentration per Run 2	1,374.942 ppm	324.538 ppm	649.933 ppm
Concentration per Run 3	1,355.602 ppm	326.231 ppm	648.523 ppm
Concentration RSD	0.7 %	0.7 %	0.5 %
Concentration SD	9.7 ppm	2.1 ppm	3.3 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	77.937 ppm	7.401 ppm	1.415 ppm
Concentration per Run 1	78.578 ppm	8.349 ppm	1.397 ppm
Concentration per Run 2	77.649 ppm	7.144 ppm	1.402 ppm
Concentration per Run 3	77.584 ppm	6.711 ppm	1.446 ppm
Concentration RSD	0.7 %	11.5 %	1.9 %
Concentration SD	0.6 ppm	0.8 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	3.340 ppm	1.186 ppm	1.056 ppm
Concentration per Run 1	3.192 ppm	1.250 ppm	1.008 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	3.357 ppm	1.258 ppm	1.067 ppm
Concentration per Run 3	3.470 ppm	1.051 ppm	1.093 ppm
Concentration RSD	4.2 %	9.9 %	4.1 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.319 ppm	1.031 ppm	22.850 ppm
Concentration per Run 1	-0.124 ppm	1.331 ppm	21.901 ppm
Concentration per Run 2	-0.529 ppm	1.186 ppm	23.549 ppm
Concentration per Run 3	-0.304 ppm	0.578 ppm	23.098 ppm
Concentration RSD	63.6 %	38.8 %	3.7 %
Concentration SD	0.2 ppm	0.4 ppm	0.9 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.198 ppm	84,218.152 ppm	201.148 ppm
Concentration per Run 1	0.102 ppm	81,014.942 ppm	200.975 ppm
Concentration per Run 2	0.312 ppm	86,827.929 ppm	199.893 ppm
Concentration per Run 3	0.178 ppm	84,811.586 ppm	202.577 ppm
Concentration RSD	53.8 %	3.5 %	0.7 %
Concentration SD	0.1 ppm	2,951.6 ppm	1.4 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.295 ppm	-0.209 ppm	-0.024 ppm
Concentration per Run 1	0.304 ppm	0.853 ppm	0.078 ppm
Concentration per Run 2	0.214 ppm	0.240 ppm	0.082 ppm
Concentration per Run 3	0.368 ppm	-1.721 ppm	-0.233 ppm
Concentration RSD	26.1 %	642.0 %	747.1 %
Concentration SD	0.1 ppm	1.3 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	2.654 ppm	29.605 ppm	94.107 %
Concentration per Run 1	2.889 ppm	29.632 ppm	93.555 %
Concentration per Run 2	2.539 ppm	29.556 ppm	94.184 %
Concentration per Run 3	2.535 ppm	29.626 ppm	94.580 %
Concentration RSD	7.7 %	0.1 %	0.5 %
Concentration SD	0.2 ppm	0.0 ppm	0.5 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	90.392 %	84.064 %	90.962 %
Concentration per Run 1	92.035 %	85.639 %	90.510 %
Concentration per Run 2	88.003 %	81.982 %	91.080 %
Concentration per Run 3	91.136 %	84.571 %	91.296 %
Concentration RSD	2.3 %	2.2 %	0.4 %
Concentration SD	2.1 %	1.9 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	232.492 ppm	10.345 ppm	0.075 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	219.849 ppm	10.069 ppm	0.023 ppm
Concentration per Run 2	276.259 ppm	10.658 ppm	0.183 ppm
Concentration per Run 3	201.369 ppm	10.308 ppm	0.019 ppm
Concentration RSD	16.8 %	2.9 %	125.0 %
Concentration SD	39.0 ppm	0.3 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.606 ppm
Concentration per Run 1	1.402 ppm
Concentration per Run 2	0.809 ppm
Concentration per Run 3	-0.393 ppm
Concentration RSD	151.0 %
Concentration SD	0.9 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	298 cps	4 cps	-4 cps	154,588 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	58,016 cps	2,476 cps	153 cps	964 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	157 cps	187 cps	1,347 cps	49,918 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	434 cps	12 cps	9 cps	18 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	4 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	350 cps	4 cps	42,046 cps	1,059 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	-6 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	3,224 cps	6,036 cps	10,396 cps	3,230 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	157,025 cps	-100 cps	88 cps	5 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729026-06 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:10:17 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	3,611.920 ppm	2.609 ppm	0.050 ppm
Concentration per Run 1	3,644.241 ppm	1.554 ppm	0.110 ppm
Concentration per Run 2	3,604.196 ppm	1.502 ppm	0.006 ppm
Concentration per Run 3	3,587.323 ppm	4.770 ppm	0.033 ppm
Concentration RSD	0.8 %	71.7 %	109.4 %
Concentration SD	29.2 ppm	1.9 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	96,069.866 ppm	105,834.506 ppm	3,069.790 ppm
Concentration per Run 1	97,206.880 ppm	106,536.945 ppm	3,101.233 ppm
Concentration per Run 2	95,946.270 ppm	105,965.070 ppm	3,077.304 ppm
Concentration per Run 3	95,056.449 ppm	105,001.505 ppm	3,030.832 ppm
Concentration RSD	1.1 %	0.7 %	1.2 %
Concentration SD	1,080.5 ppm	776.0 ppm	35.8 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	3,390.655 ppm	1,078.968 ppm	6.294 ppm
Concentration per Run 1	3,437.631 ppm	1,086.797 ppm	6.581 ppm
Concentration per Run 2	3,405.489 ppm	1,076.039 ppm	6.178 ppm
Concentration per Run 3	3,328.846 ppm	1,074.069 ppm	6.122 ppm
Concentration RSD	1.6 %	0.6 %	4.0 %
Concentration SD	55.9 ppm	6.9 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,811.586 ppm	361.752 ppm	721.669 ppm
Concentration per Run 1	1,817.611 ppm	368.237 ppm	727.662 ppm
Concentration per Run 2	1,802.530 ppm	362.179 ppm	720.639 ppm
Concentration per Run 3	1,814.615 ppm	354.840 ppm	716.704 ppm
Concentration RSD	0.4 %	1.9 %	0.8 %
Concentration SD	8.0 ppm	6.7 ppm	5.6 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	92.178 ppm	7.483 ppm	1.405 ppm
Concentration per Run 1	92.804 ppm	6.888 ppm	1.376 ppm
Concentration per Run 2	91.607 ppm	8.512 ppm	1.414 ppm
Concentration per Run 3	92.125 ppm	7.048 ppm	1.426 ppm
Concentration RSD	0.7 %	12.0 %	1.9 %
Concentration SD	0.6 ppm	0.9 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	2.793 ppm	1.707 ppm	1.099 ppm
Concentration per Run 1	2.701 ppm	2.112 ppm	1.188 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	2.652 ppm	1.364 ppm	1.036 ppm
Concentration per Run 3	3.028 ppm	1.643 ppm	1.072 ppm
Concentration RSD	7.3 %	22.1 %	7.2 %
Concentration SD	0.2 ppm	0.4 ppm	0.1 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.016 ppm	1.346 ppm	31.241 ppm
Concentration per Run 1	-0.230 ppm	1.303 ppm	30.522 ppm
Concentration per Run 2	0.320 ppm	1.486 ppm	30.992 ppm
Concentration per Run 3	-0.139 ppm	1.248 ppm	32.209 ppm
Concentration RSD	1,790.2 %	9.3 %	2.8 %
Concentration SD	0.3 ppm	0.1 ppm	0.9 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.373 ppm	67,618.140 ppm	227.834 ppm
Concentration per Run 1	0.404 ppm	65,862.558 ppm	227.062 ppm
Concentration per Run 2	0.446 ppm	67,225.101 ppm	229.262 ppm
Concentration per Run 3	0.269 ppm	69,766.761 ppm	227.180 ppm
Concentration RSD	24.8 %	2.9 %	0.5 %
Concentration SD	0.1 ppm	1,981.6 ppm	1.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.020 ppm	-0.396 ppm	-0.151 ppm
Concentration per Run 1	0.043 ppm	0.103 ppm	-0.171 ppm
Concentration per Run 2	-0.233 ppm	-0.953 ppm	-0.072 ppm
Concentration per Run 3	0.130 ppm	-0.339 ppm	-0.210 ppm
Concentration RSD	955.5 %	133.8 %	47.3 %
Concentration SD	0.2 ppm	0.5 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	3.760 ppm	48.133 ppm	94.882 %
Concentration per Run 1	3.646 ppm	48.110 ppm	93.916 %
Concentration per Run 2	3.733 ppm	48.125 ppm	94.777 %
Concentration per Run 3	3.901 ppm	48.164 ppm	95.952 %
Concentration RSD	3.5 %	0.1 %	1.1 %
Concentration SD	0.1 ppm	0.0 ppm	1.0 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	93.930 %	87.457 %	92.282 %
Concentration per Run 1	93.958 %	87.633 %	92.487 %
Concentration per Run 2	93.897 %	87.516 %	92.130 %
Concentration per Run 3	93.936 %	87.223 %	92.230 %
Concentration RSD	0.0 %	0.2 %	0.2 %
Concentration SD	0.0 %	0.2 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	346.994 ppm	10.846 ppm	0.005 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	351.344 ppm	10.571 ppm	-0.066 ppm
Concentration per Run 2	325.807 ppm	10.764 ppm	0.110 ppm
Concentration per Run 3	363.831 ppm	11.201 ppm	-0.030 ppm
Concentration RSD	5.6 %	3.0 %	1,955.2 %
Concentration SD	19.4 ppm	0.3 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.644 ppm
Concentration per Run 1	1.182 ppm
Concentration per Run 2	1.133 ppm
Concentration per Run 3	2.616 ppm
Concentration RSD	51.2 %
Concentration SD	0.8 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	422 cps	5 cps	-1 cps	126,938 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	47,370 cps	3,008 cps	186 cps	1,265 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	180 cps	241 cps	1,445 cps	53,597 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	498 cps	12 cps	9 cps	16 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	4 cps	-3 cps	-1 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	477 cps	6 cps	33,722 cps	1,168 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	-9 cps	68 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5,104 cps	6,086 cps	10,803 cps	3,361 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,304 cps	-82 cps	92 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729030-01 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:14:42 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	3,265.939 ppm	-1.451 ppm	0.077 ppm
Concentration per Run 1	3,343.425 ppm	-3.106 ppm	0.090 ppm
Concentration per Run 2	3,236.185 ppm	-0.618 ppm	0.076 ppm
Concentration per Run 3	3,218.206 ppm	-0.629 ppm	0.065 ppm
Concentration RSD	2.1 %	98.8 %	16.1 %
Concentration SD	67.7 ppm	1.4 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	99,066.619 ppm	108,990.413 ppm	2,704.735 ppm
Concentration per Run 1	101,179.333 ppm	111,483.832 ppm	2,771.628 ppm
Concentration per Run 2	98,181.221 ppm	108,340.261 ppm	2,670.161 ppm
Concentration per Run 3	97,839.305 ppm	107,147.147 ppm	2,672.417 ppm
Concentration RSD	1.9 %	2.1 %	2.1 %
Concentration SD	1,837.6 ppm	2,240.3 ppm	57.9 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,983.070 ppm	1,019.049 ppm	16.775 ppm
Concentration per Run 1	3,080.590 ppm	1,029.048 ppm	17.266 ppm
Concentration per Run 2	2,922.201 ppm	1,015.668 ppm	16.382 ppm
Concentration per Run 3	2,946.418 ppm	1,012.430 ppm	16.676 ppm
Concentration RSD	2.9 %	0.9 %	2.7 %
Concentration SD	85.3 ppm	8.8 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,430.601 ppm	129.072 ppm	967.799 ppm
Concentration per Run 1	2,504.277 ppm	133.779 ppm	988.315 ppm
Concentration per Run 2	2,414.063 ppm	129.319 ppm	957.010 ppm
Concentration per Run 3	2,373.465 ppm	124.118 ppm	958.073 ppm
Concentration RSD	2.8 %	3.7 %	1.8 %
Concentration SD	67.0 ppm	4.8 ppm	17.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	97.412 ppm	7.337 ppm	1.237 ppm
Concentration per Run 1	99.372 ppm	5.913 ppm	1.274 ppm
Concentration per Run 2	96.571 ppm	6.890 ppm	1.191 ppm
Concentration per Run 3	96.294 ppm	9.207 ppm	1.245 ppm
Concentration RSD	1.7 %	23.1 %	3.4 %
Concentration SD	1.7 ppm	1.7 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	2.380 ppm	1.409 ppm	1.113 ppm
Concentration per Run 1	2.234 ppm	1.592 ppm	0.990 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	2.343 ppm	1.420 ppm	0.921 ppm
Concentration per Run 3	2.564 ppm	1.215 ppm	1.428 ppm
Concentration RSD	7.1 %	13.4 %	24.7 %
Concentration SD	0.2 ppm	0.2 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.224 ppm	0.702 ppm	29.024 ppm
Concentration per Run 1	0.452 ppm	-0.053 ppm	28.327 ppm
Concentration per Run 2	0.424 ppm	0.960 ppm	28.799 ppm
Concentration per Run 3	-0.203 ppm	1.198 ppm	29.946 ppm
Concentration RSD	165.3 %	94.6 %	2.9 %
Concentration SD	0.4 ppm	0.7 ppm	0.8 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.138 ppm	70,473.012 ppm	226.374 ppm
Concentration per Run 1	0.060 ppm	68,928.555 ppm	226.991 ppm
Concentration per Run 2	0.231 ppm	70,078.003 ppm	225.048 ppm
Concentration per Run 3	0.121 ppm	72,412.479 ppm	227.082 ppm
Concentration RSD	63.0 %	2.5 %	0.5 %
Concentration SD	0.1 ppm	1,775.2 ppm	1.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.673 ppm	-0.431 ppm	-0.116 ppm
Concentration per Run 1	-0.847 ppm	0.477 ppm	-0.374 ppm
Concentration per Run 2	-0.889 ppm	-0.891 ppm	0.042 ppm
Concentration per Run 3	-0.284 ppm	-0.879 ppm	-0.017 ppm
Concentration RSD	50.2 %	182.4 %	193.2 %
Concentration SD	0.3 ppm	0.8 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	3.142 ppm	31.712 ppm	92.841 %
Concentration per Run 1	3.269 ppm	31.758 ppm	91.177 %
Concentration per Run 2	3.145 ppm	31.580 ppm	93.515 %
Concentration per Run 3	3.012 ppm	31.798 ppm	93.832 %
Concentration RSD	4.1 %	0.4 %	1.6 %
Concentration SD	0.1 ppm	0.1 ppm	1.4 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.369 %	86.181 %	90.767 %
Concentration per Run 1	92.650 %	86.393 %	90.802 %
Concentration per Run 2	92.084 %	86.129 %	90.924 %
Concentration per Run 3	92.372 %	86.020 %	90.573 %
Concentration RSD	0.3 %	0.2 %	0.2 %
Concentration SD	0.3 %	0.2 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	60.912 ppm	9.434 ppm	-0.031 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	93.154 ppm	9.277 ppm	0.016 ppm
Concentration per Run 2	2.898 ppm	9.215 ppm	-0.058 ppm
Concentration per Run 3	86.685 ppm	9.811 ppm	-0.050 ppm
Concentration RSD	82.7 %	3.5 %	131.4 %
Concentration SD	50.3 ppm	0.3 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.759 ppm
Concentration per Run 1	0.986 ppm
Concentration per Run 2	1.857 ppm
Concentration per Run 3	2.436 ppm
Concentration RSD	41.5 %
Concentration SD	0.7 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	381 cps	2 cps	0 cps	130,679 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	48,699 cps	2,648 cps	163 cps	1,195 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	453 cps	323 cps	519 cps	71,759 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	525 cps	12 cps	8 cps	14 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	4 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	445 cps	4 cps	35,266 cps	1,164 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	-8 cps	60 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	3,378 cps	5,955 cps	10,623 cps	3,312 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	156,687 cps	-130 cps	80 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729030-02 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:19:08 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,660.438 ppm	0.075 ppm	0.071 ppm
Concentration per Run 1	2,646.636 ppm	0.917 ppm	0.097 ppm
Concentration per Run 2	2,680.826 ppm	1.141 ppm	0.036 ppm
Concentration per Run 3	2,653.853 ppm	-1.834 ppm	0.080 ppm
Concentration RSD	0.7 %	2,216.5 %	44.2 %
Concentration SD	18.0 ppm	1.7 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	101,458.277 ppm	111,979.209 ppm	2,093.361 ppm
Concentration per Run 1	100,585.516 ppm	111,371.238 ppm	2,090.958 ppm
Concentration per Run 2	101,950.374 ppm	112,000.239 ppm	2,093.514 ppm
Concentration per Run 3	101,838.942 ppm	112,566.148 ppm	2,095.611 ppm
Concentration RSD	0.7 %	0.5 %	0.1 %
Concentration SD	757.9 ppm	597.7 ppm	2.3 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,324.372 ppm	746.703 ppm	5.004 ppm
Concentration per Run 1	2,338.834 ppm	738.338 ppm	5.247 ppm
Concentration per Run 2	2,343.303 ppm	749.920 ppm	4.689 ppm
Concentration per Run 3	2,290.978 ppm	751.851 ppm	5.075 ppm
Concentration RSD	1.2 %	1.0 %	5.7 %
Concentration SD	29.0 ppm	7.3 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,762.091 ppm	278.349 ppm	624.302 ppm
Concentration per Run 1	1,756.046 ppm	277.105 ppm	621.201 ppm
Concentration per Run 2	1,767.671 ppm	277.387 ppm	625.434 ppm
Concentration per Run 3	1,762.556 ppm	280.556 ppm	626.271 ppm
Concentration RSD	0.3 %	0.7 %	0.4 %
Concentration SD	5.8 ppm	1.9 ppm	2.7 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	74.685 ppm	6.319 ppm	1.188 ppm
Concentration per Run 1	74.237 ppm	9.152 ppm	1.265 ppm
Concentration per Run 2	74.895 ppm	5.769 ppm	1.034 ppm
Concentration per Run 3	74.923 ppm	4.037 ppm	1.265 ppm
Concentration RSD	0.5 %	41.2 %	11.2 %
Concentration SD	0.4 ppm	2.6 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	2.228 ppm	1.442 ppm	0.956 ppm
Concentration per Run 1	2.212 ppm	1.439 ppm	0.929 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	2.170 ppm	1.668 ppm	0.790 ppm
Concentration per Run 3	2.300 ppm	1.218 ppm	1.149 ppm
Concentration RSD	3.0 %	15.6 %	18.9 %
Concentration SD	0.1 ppm	0.2 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.251 ppm	0.060 ppm	22.592 ppm
Concentration per Run 1	-0.201 ppm	0.702 ppm	22.139 ppm
Concentration per Run 2	0.471 ppm	0.163 ppm	22.629 ppm
Concentration per Run 3	0.484 ppm	-0.686 ppm	23.008 ppm
Concentration RSD	155.8 %	1,167.1 %	1.9 %
Concentration SD	0.4 ppm	0.7 ppm	0.4 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.231 ppm	73,422.959 ppm	266.168 ppm
Concentration per Run 1	0.256 ppm	72,261.060 ppm	263.647 ppm
Concentration per Run 2	0.271 ppm	73,347.616 ppm	266.916 ppm
Concentration per Run 3	0.167 ppm	74,660.202 ppm	267.941 ppm
Concentration RSD	24.3 %	1.6 %	0.8 %
Concentration SD	0.1 ppm	1,201.3 ppm	2.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.584 ppm	0.119 ppm	0.082 ppm
Concentration per Run 1	-0.288 ppm	0.955 ppm	0.267 ppm
Concentration per Run 2	0.028 ppm	0.503 ppm	-0.035 ppm
Concentration per Run 3	-1.492 ppm	-1.102 ppm	0.013 ppm
Concentration RSD	137.3 %	910.1 %	198.2 %
Concentration SD	0.8 ppm	1.1 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	2.794 ppm	21.742 ppm	95.453 %
Concentration per Run 1	2.940 ppm	21.589 ppm	96.271 %
Concentration per Run 2	2.759 ppm	21.733 ppm	94.778 %
Concentration per Run 3	2.684 ppm	21.905 ppm	95.309 %
Concentration RSD	4.7 %	0.7 %	0.8 %
Concentration SD	0.1 ppm	0.2 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	93.244 %	87.118 %	92.407 %
Concentration per Run 1	93.246 %	87.237 %	92.518 %
Concentration per Run 2	93.272 %	87.082 %	92.607 %
Concentration per Run 3	93.214 %	87.036 %	92.095 %
Concentration RSD	0.0 %	0.1 %	0.3 %
Concentration SD	0.0 %	0.1 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	222.670 ppm	9.140 ppm	0.059 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	245.378 ppm	8.887 ppm	0.041 ppm
Concentration per Run 2	231.808 ppm	9.249 ppm	0.030 ppm
Concentration per Run 3	190.823 ppm	9.283 ppm	0.106 ppm
Concentration RSD	12.8 %	2.4 %	69.8 %
Concentration SD	28.4 ppm	0.2 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.812 ppm
Concentration per Run 1	0.952 ppm
Concentration per Run 2	1.999 ppm
Concentration per Run 3	2.486 ppm
Concentration RSD	43.3 %
Concentration SD	0.8 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	321 cps	3 cps	0 cps	137,619 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	51,452 cps	2,111 cps	131 cps	917 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	150 cps	241 cps	1,143 cps	47,598 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	414 cps	11 cps	8 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	2 cps	4 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	350 cps	5 cps	37,090 cps	1,390 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	56 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	2,361 cps	6,122 cps	10,724 cps	3,348 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,519 cps	-104 cps	79 cps	5 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	10 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729030-04 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:23:33 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	3,029.043 ppm	0.094 ppm	0.087 ppm
Concentration per Run 1	3,082.890 ppm	-1.813 ppm	0.099 ppm
Concentration per Run 2	3,037.762 ppm	4.141 ppm	0.055 ppm
Concentration per Run 3	2,966.477 ppm	-2.047 ppm	0.105 ppm
Concentration RSD	1.9 %	3,747.6 %	31.6 %
Concentration SD	58.7 ppm	3.5 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	102,218.415 ppm	112,681.915 ppm	2,640.264 ppm
Concentration per Run 1	102,484.384 ppm	112,729.892 ppm	2,645.138 ppm
Concentration per Run 2	102,311.050 ppm	112,776.253 ppm	2,644.145 ppm
Concentration per Run 3	101,859.811 ppm	112,539.599 ppm	2,631.507 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %
Concentration SD	322.4 ppm	125.4 ppm	7.6 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,891.358 ppm	868.282 ppm	5.057 ppm
Concentration per Run 1	2,858.440 ppm	860.095 ppm	5.199 ppm
Concentration per Run 2	2,913.883 ppm	886.965 ppm	5.211 ppm
Concentration per Run 3	2,901.751 ppm	857.786 ppm	4.761 ppm
Concentration RSD	1.0 %	1.9 %	5.1 %
Concentration SD	29.1 ppm	16.2 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,165.529 ppm	156.492 ppm	357.870 ppm
Concentration per Run 1	1,178.487 ppm	155.630 ppm	357.323 ppm
Concentration per Run 2	1,173.516 ppm	156.617 ppm	359.144 ppm
Concentration per Run 3	1,144.583 ppm	157.230 ppm	357.144 ppm
Concentration RSD	1.6 %	0.5 %	0.3 %
Concentration SD	18.3 ppm	0.8 ppm	1.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	78.789 ppm	7.191 ppm	1.580 ppm
Concentration per Run 1	79.195 ppm	5.489 ppm	1.506 ppm
Concentration per Run 2	78.184 ppm	9.396 ppm	1.558 ppm
Concentration per Run 3	78.989 ppm	6.687 ppm	1.678 ppm
Concentration RSD	0.7 %	27.8 %	5.6 %
Concentration SD	0.5 ppm	2.0 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	3.271 ppm	1.775 ppm	1.038 ppm
Concentration per Run 1	3.169 ppm	1.796 ppm	1.369 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	3.122 ppm	1.648 ppm	0.494 ppm
Concentration per Run 3	3.521 ppm	1.880 ppm	1.249 ppm
Concentration RSD	6.7 %	6.6 %	45.7 %
Concentration SD	0.2 ppm	0.1 ppm	0.5 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.209 ppm	1.386 ppm	39.890 ppm
Concentration per Run 1	-0.614 ppm	1.297 ppm	37.917 ppm
Concentration per Run 2	-0.218 ppm	1.659 ppm	38.990 ppm
Concentration per Run 3	0.204 ppm	1.201 ppm	42.762 ppm
Concentration RSD	195.4 %	17.4 %	6.4 %
Concentration SD	0.4 ppm	0.2 ppm	2.5 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.264 ppm	73,985.557 ppm	176.143 ppm
Concentration per Run 1	0.339 ppm	70,409.149 ppm	175.277 ppm
Concentration per Run 2	0.275 ppm	72,317.845 ppm	175.947 ppm
Concentration per Run 3	0.179 ppm	79,229.676 ppm	177.206 ppm
Concentration RSD	30.5 %	6.3 %	0.6 %
Concentration SD	0.1 ppm	4,640.7 ppm	1.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.648 ppm	-0.139 ppm	-0.132 ppm
Concentration per Run 1	-0.681 ppm	-1.421 ppm	-0.196 ppm
Concentration per Run 2	-1.275 ppm	1.795 ppm	-0.247 ppm
Concentration per Run 3	0.014 ppm	-0.789 ppm	0.046 ppm
Concentration RSD	99.6 %	1,229.2 %	118.0 %
Concentration SD	0.6 ppm	1.7 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	3.071 ppm	51.874 ppm	95.012 %
Concentration per Run 1	3.071 ppm	51.598 ppm	94.288 %
Concentration per Run 2	3.045 ppm	51.913 ppm	95.053 %
Concentration per Run 3	3.096 ppm	52.112 ppm	95.695 %
Concentration RSD	0.8 %	0.5 %	0.7 %
Concentration SD	0.0 ppm	0.3 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.736 %	85.454 %	91.784 %
Concentration per Run 1	93.813 %	87.390 %	91.705 %
Concentration per Run 2	93.300 %	86.992 %	91.922 %
Concentration per Run 3	88.093 %	81.980 %	91.725 %
Concentration RSD	3.5 %	3.5 %	0.1 %
Concentration SD	3.2 %	3.0 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	114.776 ppm	9.848 ppm	-0.002 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	157.368 ppm	9.385 ppm	-0.083 ppm
Concentration per Run 2	14.223 ppm	9.706 ppm	0.049 ppm
Concentration per Run 3	172.737 ppm	10.453 ppm	0.030 ppm
Concentration RSD	76.2 %	5.6 %	4,457.2 %
Concentration SD	87.4 ppm	0.5 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.913 ppm
Concentration per Run 1	-1.329 ppm
Concentration per Run 2	1.584 ppm
Concentration per Run 3	2.484 ppm
Concentration RSD	218.2 %
Concentration SD	2.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	362 cps	3 cps	1 cps	138,012 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	51,536 cps	2,646 cps	162 cps	1,051 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	151 cps	158 cps	642 cps	27,157 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	434 cps	12 cps	10 cps	18 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	4 cps	-3 cps	-1 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	605 cps	5 cps	36,717 cps	920 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	-8 cps	59 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5,582 cps	6,094 cps	10,550 cps	3,284 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,444 cps	-123 cps	83 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729030-05 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:27:57 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	4,784.891 ppm	4.788 ppm	0.159 ppm
Concentration per Run 1	4,763.504 ppm	5.640 ppm	0.186 ppm
Concentration per Run 2	4,806.827 ppm	2.717 ppm	0.137 ppm
Concentration per Run 3	4,784.342 ppm	6.008 ppm	0.154 ppm
Concentration RSD	0.5 %	37.7 %	15.4 %
Concentration SD	21.7 ppm	1.8 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	144,981.256 ppm	161,193.151 ppm	4,129.712 ppm
Concentration per Run 1	144,161.485 ppm	160,351.128 ppm	4,116.438 ppm
Concentration per Run 2	145,745.649 ppm	161,922.929 ppm	4,139.925 ppm
Concentration per Run 3	145,036.634 ppm	161,305.395 ppm	4,132.772 ppm
Concentration RSD	0.5 %	0.5 %	0.3 %
Concentration SD	793.5 ppm	791.9 ppm	12.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4,530.478 ppm	1,320.679 ppm	8.024 ppm
Concentration per Run 1	4,535.074 ppm	1,307.401 ppm	7.995 ppm
Concentration per Run 2	4,527.650 ppm	1,329.100 ppm	8.086 ppm
Concentration per Run 3	4,528.711 ppm	1,325.537 ppm	7.990 ppm
Concentration RSD	0.1 %	0.9 %	0.7 %
Concentration SD	4.0 ppm	11.6 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,610.230 ppm	420.970 ppm	555.647 ppm
Concentration per Run 1	2,606.267 ppm	417.779 ppm	555.020 ppm
Concentration per Run 2	2,631.617 ppm	424.407 ppm	555.467 ppm
Concentration per Run 3	2,592.808 ppm	420.723 ppm	556.453 ppm
Concentration RSD	0.8 %	0.8 %	0.1 %
Concentration SD	19.7 ppm	3.3 ppm	0.7 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	94.775 ppm	9.425 ppm	2.120 ppm
Concentration per Run 1	94.208 ppm	9.680 ppm	2.236 ppm
Concentration per Run 2	95.249 ppm	8.243 ppm	1.999 ppm
Concentration per Run 3	94.870 ppm	10.353 ppm	2.126 ppm
Concentration RSD	0.6 %	11.4 %	5.6 %
Concentration SD	0.5 ppm	1.1 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	10.908 ppm	2.406 ppm	0.944 ppm
Concentration per Run 1	10.812 ppm	2.270 ppm	1.094 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	11.130 ppm	2.223 ppm	1.216 ppm
Concentration per Run 3	10.781 ppm	2.725 ppm	0.522 ppm
Concentration RSD	1.8 %	11.5 %	39.2 %
Concentration SD	0.2 ppm	0.3 ppm	0.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.063 ppm	1.013 ppm	31.764 ppm
Concentration per Run 1	0.500 ppm	1.354 ppm	31.793 ppm
Concentration per Run 2	-0.382 ppm	0.258 ppm	31.722 ppm
Concentration per Run 3	-0.308 ppm	1.427 ppm	31.778 ppm
Concentration RSD	774.2 %	64.7 %	0.1 %
Concentration SD	0.5 ppm	0.7 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.108 ppm	85,319.576 ppm	338.202 ppm
Concentration per Run 1	0.156 ppm	85,484.723 ppm	337.257 ppm
Concentration per Run 2	0.038 ppm	85,066.721 ppm	337.530 ppm
Concentration per Run 3	0.129 ppm	85,407.286 ppm	339.821 ppm
Concentration RSD	57.4 %	0.3 %	0.4 %
Concentration SD	0.1 ppm	222.4 ppm	1.4 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.277 ppm	-0.951 ppm	-0.387 ppm
Concentration per Run 1	-0.936 ppm	-0.630 ppm	-0.313 ppm
Concentration per Run 2	0.527 ppm	-1.674 ppm	-0.389 ppm
Concentration per Run 3	-0.422 ppm	-0.551 ppm	-0.459 ppm
Concentration RSD	267.9 %	65.9 %	18.8 %
Concentration SD	0.7 ppm	0.6 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	5.574 ppm	64.507 ppm	93.762 %
Concentration per Run 1	5.768 ppm	64.666 ppm	94.292 %
Concentration per Run 2	5.416 ppm	64.444 ppm	92.977 %
Concentration per Run 3	5.537 ppm	64.410 ppm	94.018 %
Concentration RSD	3.2 %	0.2 %	0.7 %
Concentration SD	0.2 ppm	0.1 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	90.843 %	83.838 %	89.572 %
Concentration per Run 1	90.568 %	83.683 %	89.602 %
Concentration per Run 2	90.983 %	84.020 %	89.239 %
Concentration per Run 3	90.978 %	83.812 %	89.875 %
Concentration RSD	0.3 %	0.2 %	0.4 %
Concentration SD	0.2 %	0.2 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	416.920 ppm	12.062 ppm	-0.023 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	478.610 ppm	11.989 ppm	0.019 ppm
Concentration per Run 2	386.530 ppm	12.085 ppm	-0.029 ppm
Concentration per Run 3	385.620 ppm	12.113 ppm	-0.059 ppm
Concentration RSD	12.8 %	0.5 %	171.3 %
Concentration SD	53.4 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.558 ppm
Concentration per Run 1	0.582 ppm
Concentration per Run 2	2.838 ppm
Concentration per Run 3	1.255 ppm
Concentration RSD	74.3 %
Concentration SD	1.2 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	583 cps	6 cps	4 cps	200,878 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	75,655 cps	4,238 cps	260 cps	1,607 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	236 cps	365 cps	1,762 cps	43,278 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	537 cps	15 cps	14 cps	57 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	3 cps	3 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	497 cps	4 cps	43,668 cps	1,774 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	-13 cps	95 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	7,042 cps	6,014 cps	10,448 cps	3,222 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	154,625 cps	-65 cps	105 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type QC Analysis Date 10/30/2014 3:32:22 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	9.300 ppm	1.893 ppm	0.185 ppm	46.558 ppm
Concentration per Run 1	9.127 ppm	1.881 ppm	0.182 ppm	46.095 ppm
Concentration per Run 2	9.409 ppm	1.906 ppm	0.186 ppm	46.942 ppm
Concentration per Run 3	9.364 ppm	1.893 ppm	0.185 ppm	46.637 ppm
Concentration RSD	1.6 %	0.7 %	1.2 %	0.9 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm	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	50.560 ppm	9.301 ppm	10.426 ppm	48.011 ppm
Concentration per Run 1	50.097 ppm	9.196 ppm	10.410 ppm	47.555 ppm
Concentration per Run 2	50.876 ppm	9.377 ppm	10.518 ppm	48.286 ppm
Concentration per Run 3	50.707 ppm	9.331 ppm	10.350 ppm	48.193 ppm
Concentration RSD	0.8 %	1.0 %	0.8 %	0.8 %
Concentration SD	0.4 ppm	0.1 ppm	0.1 ppm	0.4 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.432 ppm	9.525 ppm	46.692 ppm	0.944 ppm
Concentration per Run 1	1.418 ppm	9.441 ppm	46.219 ppm	0.935 ppm
Concentration per Run 2	1.442 ppm	9.592 ppm	47.001 ppm	0.950 ppm
Concentration per Run 3	1.437 ppm	9.544 ppm	46.856 ppm	0.949 ppm
Concentration RSD	0.9 %	0.8 %	0.9 %	0.9 %
Concentration SD	0.0 ppm	0.1 ppm	0.4 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	0.968 ppm	0.952 ppm	0.989 ppm	2.006 ppm
Concentration per Run 1	0.960 ppm	0.938 ppm	0.993 ppm	2.011 ppm
Concentration per Run 2	0.974 ppm	0.959 ppm	0.984 ppm	1.999 ppm
Concentration per Run 3	0.969 ppm	0.959 ppm	0.992 ppm	2.008 ppm
Concentration RSD	0.8 %	1.2 %	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	0.493 ppm	1.970 ppm	1.920 ppm	1.944 ppm
Concentration per Run 1	0.493 ppm	1.978 ppm	1.924 ppm	1.952 ppm
Concentration per Run 2	0.492 ppm	1.961 ppm	1.914 ppm	1.941 ppm
Concentration per Run 3	0.493 ppm	1.972 ppm	1.921 ppm	1.940 ppm
Concentration RSD	0.1 %	0.4 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.482 ppm	0.491 ppm	4.476 ppm	1.936 ppm
Concentration per Run 1	0.484 ppm	0.493 ppm	4.489 ppm	1.936 ppm
Concentration per Run 2	0.480 ppm	0.490 ppm	4.468 ppm	1.929 ppm
Concentration per Run 3	0.481 ppm	0.490 ppm	4.473 ppm	1.941 ppm
Concentration RSD	0.4 %	0.4 %	0.2 %	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	1.916 ppm	2.010 ppm	0.986 ppm	0.993 ppm
Concentration per Run 1	1.925 ppm	2.020 ppm	0.983 ppm	0.990 ppm
Concentration per Run 2	1.908 ppm	2.000 ppm	0.985 ppm	0.994 ppm
Concentration per Run 3	1.915 ppm	2.009 ppm	0.990 ppm	0.996 ppm
Concentration RSD	0.4 %	0.5 %	0.4 %	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	1.022 ppm	95.821 %	95.305 %	87.818 %
Concentration per Run 1	1.022 ppm	96.538 %	94.897 %	87.489 %
Concentration per Run 2	1.021 ppm	95.110 %	95.525 %	88.071 %
Concentration per Run 3	1.025 ppm	95.814 %	95.492 %	87.894 %
Concentration RSD	0.2 %	0.7 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.7 %	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	92.145 %	48.611 ppm	2.919 ppm	0.520 ppm
Concentration per Run 1	92.325 %	48.245 ppm	2.928 ppm	0.522 ppm
Concentration per Run 2	92.185 %	48.955 ppm	2.906 ppm	0.519 ppm
Concentration per Run 3	91.925 %	48.632 ppm	2.924 ppm	0.520 ppm
Concentration RSD	0.2 %	0.7 %	0.4 %	0.3 %
Concentration SD	0.2 %	0.4 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.867 ppm
Concentration per Run 1	1.845 ppm
Concentration per Run 2	1.876 ppm
Concentration per Run 3	1.879 ppm
Concentration RSD	1.0 %
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	557 cps	697 cps	3,762 cps	31,734 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11,671 cps	4,689 cps	293 cps	27,691 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	19,314 cps	654 cps	95,649 cps	36,139 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,698 cps	632 cps	3,404 cps	5,117 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	435 cps	2,142 cps	1,248 cps	867 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,785 cps	2,051 cps	1,163 cps	4,988 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,241 cps	755 cps	8,826 cps	6,896 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	55,131 cps	6,146 cps	10,961 cps	3,375 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,067 cps	4,310 cps	12,854 cps	2,964 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,675 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type QC Analysis Date 10/30/2014 3:36:27 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	0.005 ppm	-0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.021 ppm	-0.007 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.021 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.015 ppm	-0.008 ppm	0.000 ppm	0.000 ppm
Concentration RSD	451.8 %	193.1 %	282.3 %	274.6 %
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	-0.002 ppm	0.017 ppm	-0.072 ppm	-0.007 ppm
Concentration per Run 1	-0.002 ppm	0.016 ppm	-0.105 ppm	-0.039 ppm
Concentration per Run 2	-0.007 ppm	0.020 ppm	-0.043 ppm	0.008 ppm
Concentration per Run 3	0.004 ppm	0.015 ppm	-0.069 ppm	0.010 ppm
Concentration RSD	361.5 %	14.1 %	42.6 %	413.8 %
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	0.001 ppm	0.030 ppm	0.008 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.039 ppm	0.011 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.012 ppm	0.005 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.038 ppm	0.010 ppm	0.000 ppm
Concentration RSD	230.3 %	51.2 %	39.2 %	103.0 %
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	0.000 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	0.000 ppm	-0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration RSD	193.4 %	3,928.2 %	90.4 %	151.1 %
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	0.000 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.002 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration RSD	103.6 %	11.9 %	170.4 %	65.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	-0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.011 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.013 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.009 ppm	0.000 ppm
Concentration RSD	97.2 %	55.5 %	18.4 %	74.4 %
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	0.001 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.002 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	56.7 %	74.9 %	217.7 %	189.4 %
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	0.000 ppm	96.288 %	100.605 %	100.446 %
Concentration per Run 1	0.000 ppm	96.945 %	100.665 %	100.523 %
Concentration per Run 2	0.000 ppm	95.928 %	100.641 %	100.395 %
Concentration per Run 3	0.000 ppm	95.990 %	100.510 %	100.421 %
Concentration RSD	56.3 %	0.6 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.6 %	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	97.922 %	0.014 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	97.853 %	0.092 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	97.601 %	-0.168 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	98.313 %	0.119 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.4 %	1,118.7 %	40.0 %	319.4 %
Concentration SD	0.4 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.002 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	-0.003 ppm
Concentration RSD	883.5 %
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	7 cps	1 cps	-2 cps	48 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	24 cps	0 cps	57 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	24 cps	2 cps	24 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	-2 cps	3 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	2 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	3 cps	4 cps	11 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	2 cps	-2 cps	-3 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	19 cps	6,176 cps	11,570 cps	3,860 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	169,040 cps	-145 cps	2 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729032-01 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:40:59 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	394.191 ppm	0.836 ppm	-0.003 ppm
Concentration per Run 1	355.443 ppm	0.739 ppm	-0.024 ppm
Concentration per Run 2	416.290 ppm	0.950 ppm	0.018 ppm
Concentration per Run 3	410.841 ppm	0.817 ppm	-0.003 ppm
Concentration RSD	8.5 %	12.8 %	677.5 %
Concentration SD	33.7 ppm	0.1 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	119,444.839 ppm	132,315.000 ppm	315.352 ppm
Concentration per Run 1	111,649.371 ppm	123,544.857 ppm	292.935 ppm
Concentration per Run 2	122,056.708 ppm	135,110.894 ppm	321.371 ppm
Concentration per Run 3	124,628.439 ppm	138,289.250 ppm	331.750 ppm
Concentration RSD	5.8 %	5.9 %	6.4 %
Concentration SD	6,872.4 ppm	7,759.6 ppm	20.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	329.613 ppm	151.326 ppm	3.933 ppm
Concentration per Run 1	282.565 ppm	125.624 ppm	3.363 ppm
Concentration per Run 2	346.425 ppm	157.407 ppm	4.213 ppm
Concentration per Run 3	359.849 ppm	170.948 ppm	4.223 ppm
Concentration RSD	12.5 %	15.4 %	12.5 %
Concentration SD	41.3 ppm	23.3 ppm	0.5 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	632.361 ppm	109.739 ppm	1,089.218 ppm
Concentration per Run 1	597.150 ppm	100.853 ppm	1,012.426 ppm
Concentration per Run 2	629.795 ppm	111.298 ppm	1,116.306 ppm
Concentration per Run 3	670.139 ppm	117.066 ppm	1,138.922 ppm
Concentration RSD	5.8 %	7.5 %	6.2 %
Concentration SD	36.6 ppm	8.2 ppm	67.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	18.619 ppm	2.513 ppm	0.332 ppm
Concentration per Run 1	17.443 ppm	1.847 ppm	0.304 ppm
Concentration per Run 2	19.492 ppm	3.139 ppm	0.390 ppm
Concentration per Run 3	18.921 ppm	2.553 ppm	0.300 ppm
Concentration RSD	5.7 %	25.8 %	15.4 %
Concentration SD	1.1 ppm	0.6 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.621 ppm	0.380 ppm	0.965 ppm
Concentration per Run 1	0.542 ppm	0.296 ppm	1.135 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.648 ppm	0.953 ppm	0.783 ppm
Concentration per Run 3	0.673 ppm	-0.109 ppm	0.977 ppm
Concentration RSD	11.2 %	141.0 %	18.3 %
Concentration SD	0.1 ppm	0.5 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.080 ppm	0.048 ppm	5.403 ppm
Concentration per Run 1	0.524 ppm	-0.594 ppm	5.324 ppm
Concentration per Run 2	-0.468 ppm	0.001 ppm	5.353 ppm
Concentration per Run 3	0.185 ppm	0.736 ppm	5.533 ppm
Concentration RSD	628.4 %	1,394.9 %	2.1 %
Concentration SD	0.5 ppm	0.7 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.066 ppm	96,538.451 ppm	266.612 ppm
Concentration per Run 1	0.060 ppm	94,158.935 ppm	265.443 ppm
Concentration per Run 2	0.047 ppm	96,373.157 ppm	266.645 ppm
Concentration per Run 3	0.090 ppm	99,083.262 ppm	267.748 ppm
Concentration RSD	33.2 %	2.6 %	0.4 %
Concentration SD	0.0 ppm	2,466.3 ppm	1.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.584 ppm	-0.017 ppm	-0.219 ppm
Concentration per Run 1	-0.569 ppm	1.617 ppm	-0.387 ppm
Concentration per Run 2	-0.796 ppm	-0.245 ppm	-0.005 ppm
Concentration per Run 3	-0.387 ppm	-1.423 ppm	-0.266 ppm
Concentration RSD	35.0 %	9,131.5 %	89.0 %
Concentration SD	0.2 ppm	1.5 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.433 ppm	3.014 ppm	97.869 %
Concentration per Run 1	0.471 ppm	2.985 ppm	102.594 %
Concentration per Run 2	0.299 ppm	3.012 ppm	96.193 %
Concentration per Run 3	0.530 ppm	3.046 ppm	94.822 %
Concentration RSD	27.7 %	1.0 %	4.2 %
Concentration SD	0.1 ppm	0.0 ppm	4.1 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.295 %	85.146 %	90.613 %
Concentration per Run 1	91.435 %	85.208 %	90.467 %
Concentration per Run 2	91.291 %	85.199 %	90.659 %
Concentration per Run 3	91.158 %	85.029 %	90.714 %
Concentration RSD	0.2 %	0.1 %	0.1 %
Concentration SD	0.1 %	0.1 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.994 ppm	3.965 ppm	0.054 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	108.185 ppm	3.858 ppm	0.115 ppm
Concentration per Run 2	71.942 ppm	4.023 ppm	-0.008 ppm
Concentration per Run 3	116.854 ppm	4.015 ppm	0.056 ppm
Concentration RSD	24.1 %	2.3 %	112.8 %
Concentration SD	23.8 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.560 ppm
Concentration per Run 1	-0.129 ppm
Concentration per Run 2	1.505 ppm
Concentration per Run 3	0.305 ppm
Concentration RSD	151.0 %
Concentration SD	0.8 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	56 cps	3 cps	-3 cps	172,477 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	64,719 cps	351 cps	21 cps	246 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	129 cps	92 cps	483 cps	88,405 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	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	0 cps	4 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	87 cps	3 cps	49,654 cps	1,419 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	-10 cps	23 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	343 cps	6,277 cps	10,500 cps	3,272 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	156,423 cps	-129 cps	35 cps	5 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729032-02 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:45:25 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,646.422 ppm	1.469 ppm	0.053 ppm
Concentration per Run 1	2,622.178 ppm	-2.230 ppm	0.065 ppm
Concentration per Run 2	2,665.117 ppm	1.309 ppm	0.038 ppm
Concentration per Run 3	2,651.972 ppm	5.329 ppm	0.057 ppm
Concentration RSD	0.8 %	257.4 %	26.0 %
Concentration SD	22.0 ppm	3.8 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	102,518.057 ppm	113,162.756 ppm	2,558.478 ppm
Concentration per Run 1	103,265.662 ppm	114,000.897 ppm	2,571.058 ppm
Concentration per Run 2	102,300.394 ppm	113,076.768 ppm	2,554.233 ppm
Concentration per Run 3	101,988.115 ppm	112,410.601 ppm	2,550.142 ppm
Concentration RSD	0.6 %	0.7 %	0.4 %
Concentration SD	666.0 ppm	798.6 ppm	11.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,847.154 ppm	781.826 ppm	6.517 ppm
Concentration per Run 1	2,890.353 ppm	767.794 ppm	6.745 ppm
Concentration per Run 2	2,842.187 ppm	793.205 ppm	6.279 ppm
Concentration per Run 3	2,808.920 ppm	784.479 ppm	6.527 ppm
Concentration RSD	1.4 %	1.7 %	3.6 %
Concentration SD	40.9 ppm	12.9 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,708.224 ppm	170.196 ppm	710.465 ppm
Concentration per Run 1	1,709.797 ppm	172.795 ppm	711.851 ppm
Concentration per Run 2	1,739.716 ppm	167.000 ppm	709.452 ppm
Concentration per Run 3	1,675.159 ppm	170.794 ppm	710.092 ppm
Concentration RSD	1.9 %	1.7 %	0.2 %
Concentration SD	32.3 ppm	2.9 ppm	1.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	80.473 ppm	6.493 ppm	0.973 ppm
Concentration per Run 1	80.146 ppm	6.813 ppm	0.943 ppm
Concentration per Run 2	80.934 ppm	5.633 ppm	0.885 ppm
Concentration per Run 3	80.338 ppm	7.033 ppm	1.091 ppm
Concentration RSD	0.5 %	11.6 %	10.9 %
Concentration SD	0.4 ppm	0.8 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	2.308 ppm	1.240 ppm	1.625 ppm
Concentration per Run 1	2.409 ppm	1.403 ppm	1.374 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	2.231 ppm	1.464 ppm	1.435 ppm
Concentration per Run 3	2.285 ppm	0.854 ppm	2.065 ppm
Concentration RSD	4.0 %	27.1 %	23.6 %
Concentration SD	0.1 ppm	0.3 ppm	0.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.170 ppm	0.563 ppm	20.618 ppm
Concentration per Run 1	0.146 ppm	0.619 ppm	20.185 ppm
Concentration per Run 2	-0.362 ppm	0.458 ppm	20.553 ppm
Concentration per Run 3	-0.293 ppm	0.612 ppm	21.117 ppm
Concentration RSD	162.6 %	16.2 %	2.3 %
Concentration SD	0.3 ppm	0.1 ppm	0.5 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.508 ppm	66,315.199 ppm	210.638 ppm
Concentration per Run 1	0.531 ppm	65,025.430 ppm	209.531 ppm
Concentration per Run 2	0.469 ppm	66,135.209 ppm	210.203 ppm
Concentration per Run 3	0.525 ppm	67,784.959 ppm	212.182 ppm
Concentration RSD	6.7 %	2.1 %	0.7 %
Concentration SD	0.0 ppm	1,388.5 ppm	1.4 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.201 ppm	0.145 ppm	-0.116 ppm
Concentration per Run 1	-0.447 ppm	0.055 ppm	0.016 ppm
Concentration per Run 2	0.462 ppm	0.281 ppm	-0.253 ppm
Concentration per Run 3	0.589 ppm	0.099 ppm	-0.112 ppm
Concentration RSD	280.8 %	82.8 %	115.9 %
Concentration SD	0.6 ppm	0.1 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	2.959 ppm	59.583 ppm	95.436 %
Concentration per Run 1	2.898 ppm	59.461 ppm	94.666 %
Concentration per Run 2	3.312 ppm	59.477 ppm	95.346 %
Concentration per Run 3	2.669 ppm	59.812 ppm	96.296 %
Concentration RSD	11.0 %	0.3 %	0.9 %
Concentration SD	0.3 ppm	0.2 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.373 %	86.659 %	91.727 %
Concentration per Run 1	92.331 %	86.868 %	91.348 %
Concentration per Run 2	92.376 %	86.674 %	91.926 %
Concentration per Run 3	92.411 %	86.435 %	91.907 %
Concentration RSD	0.0 %	0.3 %	0.4 %
Concentration SD	0.0 %	0.2 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	131.791 ppm	8.651 ppm	0.019 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	131.569 ppm	8.481 ppm	-0.011 ppm
Concentration per Run 2	133.567 ppm	8.668 ppm	0.029 ppm
Concentration per Run 3	130.237 ppm	8.805 ppm	0.037 ppm
Concentration RSD	1.3 %	1.9 %	138.3 %
Concentration SD	1.7 ppm	0.2 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.500 ppm
Concentration per Run 1	0.875 ppm
Concentration per Run 2	0.553 ppm
Concentration per Run 3	0.072 ppm
Concentration RSD	80.9 %
Concentration SD	0.4 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	319 cps	4 cps	-1 cps	139,032 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	51,985 cps	2,576 cps	160 cps	957 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	191 cps	233 cps	701 cps	54,159 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	446 cps	11 cps	6 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	1 cps	5 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	317 cps	7 cps	33,188 cps	1,096 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	-8 cps	58 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	6,406 cps	6,121 cps	10,624 cps	3,330 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,345 cps	-121 cps	74 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729032-04 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:49:50 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	1,134.473 ppm	-0.287 ppm	-0.023 ppm
Concentration per Run 1	1,202.689 ppm	-1.433 ppm	0.038 ppm
Concentration per Run 2	1,203.978 ppm	-0.696 ppm	-0.058 ppm
Concentration per Run 3	996.751 ppm	1.268 ppm	-0.049 ppm
Concentration RSD	10.5 %	486.5 %	231.2 %
Concentration SD	119.3 ppm	1.4 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	139,559.256 ppm	154,892.238 ppm	888.982 ppm
Concentration per Run 1	147,596.497 ppm	163,457.436 ppm	939.305 ppm
Concentration per Run 2	146,523.655 ppm	163,092.983 ppm	935.788 ppm
Concentration per Run 3	124,557.616 ppm	138,126.296 ppm	791.853 ppm
Concentration RSD	9.3 %	9.4 %	9.5 %
Concentration SD	13,002.9 ppm	14,520.9 ppm	84.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	975.525 ppm	417.429 ppm	2.965 ppm
Concentration per Run 1	1,034.762 ppm	453.467 ppm	3.036 ppm
Concentration per Run 2	1,010.800 ppm	436.697 ppm	3.234 ppm
Concentration per Run 3	881.014 ppm	362.122 ppm	2.626 ppm
Concentration RSD	8.5 %	11.6 %	10.4 %
Concentration SD	82.7 ppm	48.6 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,051.015 ppm	173.960 ppm	1,002.031 ppm
Concentration per Run 1	1,103.428 ppm	183.883 ppm	1,058.914 ppm
Concentration per Run 2	1,109.724 ppm	182.881 ppm	1,051.378 ppm
Concentration per Run 3	939.895 ppm	155.116 ppm	895.802 ppm
Concentration RSD	9.2 %	9.4 %	9.2 %
Concentration SD	96.3 ppm	16.3 ppm	92.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	33.151 ppm	1.376 ppm	0.607 ppm
Concentration per Run 1	35.173 ppm	1.252 ppm	0.458 ppm
Concentration per Run 2	34.744 ppm	-0.149 ppm	0.629 ppm
Concentration per Run 3	29.537 ppm	3.027 ppm	0.733 ppm
Concentration RSD	9.5 %	115.6 %	22.9 %
Concentration SD	3.1 ppm	1.6 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.352 ppm	0.531 ppm	1.103 ppm
Concentration per Run 1	1.324 ppm	0.594 ppm	0.711 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.146 ppm	0.218 ppm	1.540 ppm
Concentration per Run 3	1.586 ppm	0.780 ppm	1.059 ppm
Concentration RSD	16.4 %	53.9 %	37.8 %
Concentration SD	0.2 ppm	0.3 ppm	0.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.090 ppm	0.207 ppm	15.206 ppm
Concentration per Run 1	0.419 ppm	1.620 ppm	14.928 ppm
Concentration per Run 2	-0.454 ppm	-0.548 ppm	15.142 ppm
Concentration per Run 3	-0.234 ppm	-0.450 ppm	15.549 ppm
Concentration RSD	506.4 %	591.4 %	2.1 %
Concentration SD	0.5 ppm	1.2 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.169 ppm	109,040.125 ppm	280.506 ppm
Concentration per Run 1	0.189 ppm	106,961.865 ppm	282.161 ppm
Concentration per Run 2	0.134 ppm	108,632.434 ppm	280.921 ppm
Concentration per Run 3	0.184 ppm	111,526.077 ppm	278.435 ppm
Concentration RSD	18.0 %	2.1 %	0.7 %
Concentration SD	0.0 ppm	2,309.3 ppm	1.9 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.105 ppm	-0.493 ppm	-0.004 ppm
Concentration per Run 1	-0.387 ppm	0.009 ppm	-0.052 ppm
Concentration per Run 2	-0.229 ppm	0.228 ppm	0.224 ppm
Concentration per Run 3	0.302 ppm	-1.715 ppm	-0.183 ppm
Concentration RSD	344.6 %	215.9 %	5,803.3 %
Concentration SD	0.4 ppm	1.1 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	1.142 ppm	15.471 ppm	98.677 %
Concentration per Run 1	1.109 ppm	15.605 ppm	94.196 %
Concentration per Run 2	1.151 ppm	15.409 ppm	94.396 %
Concentration per Run 3	1.165 ppm	15.399 ppm	107.438 %
Concentration RSD	2.6 %	0.7 %	7.7 %
Concentration SD	0.0 ppm	0.1 ppm	7.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	90.927 %	84.622 %	89.919 %
Concentration per Run 1	90.962 %	84.837 %	89.462 %
Concentration per Run 2	91.031 %	84.652 %	90.228 %
Concentration per Run 3	90.788 %	84.378 %	90.066 %
Concentration RSD	0.1 %	0.3 %	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	189.752 ppm	4.884 ppm	-0.030 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	147.424 ppm	4.767 ppm	-0.103 ppm
Concentration per Run 2	258.416 ppm	4.911 ppm	-0.023 ppm
Concentration per Run 3	163.416 ppm	4.973 ppm	0.037 ppm
Concentration RSD	31.6 %	2.2 %	236.8 %
Concentration SD	60.0 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.431 ppm
Concentration per Run 1	-0.099 ppm
Concentration per Run 2	3.973 ppm
Concentration per Run 3	0.420 ppm
Concentration RSD	154.9 %
Concentration SD	2.2 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	147 cps	3 cps	-4 cps	198,642 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	74,679 cps	949 cps	59 cps	564 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	100 cps	151 cps	752 cps	80,183 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	192 cps	5 cps	4 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	0 cps	4 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	235 cps	4 cps	54,784 cps	1,453 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	-6 cps	32 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	1,670 cps	6,329 cps	10,457 cps	3,252 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	155,224 cps	-114 cps	42 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729032-05 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:54:16 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	4,312.045 ppm	3.589 ppm	0.034 ppm
Concentration per Run 1	4,315.833 ppm	1.628 ppm	0.017 ppm
Concentration per Run 2	4,347.385 ppm	6.061 ppm	0.031 ppm
Concentration per Run 3	4,272.919 ppm	3.077 ppm	0.053 ppm
Concentration RSD	0.9 %	63.0 %	53.6 %
Concentration SD	37.4 ppm	2.3 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	59,495.423 ppm	65,313.525 ppm	3,656.615 ppm
Concentration per Run 1	59,654.590 ppm	65,545.802 ppm	3,672.625 ppm
Concentration per Run 2	59,324.293 ppm	65,259.987 ppm	3,647.221 ppm
Concentration per Run 3	59,507.387 ppm	65,134.787 ppm	3,650.000 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %
Concentration SD	165.5 ppm	210.7 ppm	13.9 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4,030.841 ppm	1,225.881 ppm	5.878 ppm
Concentration per Run 1	4,057.596 ppm	1,237.961 ppm	6.417 ppm
Concentration per Run 2	4,027.788 ppm	1,208.452 ppm	5.186 ppm
Concentration per Run 3	4,007.139 ppm	1,231.228 ppm	6.032 ppm
Concentration RSD	0.6 %	1.3 %	10.7 %
Concentration SD	25.4 ppm	15.5 ppm	0.6 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,573.472 ppm	153.152 ppm	230.760 ppm
Concentration per Run 1	1,554.140 ppm	154.463 ppm	232.299 ppm
Concentration per Run 2	1,576.328 ppm	149.087 ppm	230.199 ppm
Concentration per Run 3	1,589.948 ppm	155.906 ppm	229.780 ppm
Concentration RSD	1.1 %	2.3 %	0.6 %
Concentration SD	18.1 ppm	3.6 ppm	1.3 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	119.133 ppm	8.938 ppm	1.751 ppm
Concentration per Run 1	119.754 ppm	10.336 ppm	1.519 ppm
Concentration per Run 2	118.532 ppm	9.775 ppm	1.672 ppm
Concentration per Run 3	119.112 ppm	6.703 ppm	2.064 ppm
Concentration RSD	0.5 %	21.9 %	16.1 %
Concentration SD	0.6 ppm	2.0 ppm	0.3 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	3.284 ppm	2.256 ppm	2.739 ppm
Concentration per Run 1	3.191 ppm	2.019 ppm	2.411 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	3.076 ppm	2.101 ppm	2.818 ppm
Concentration per Run 3	3.585 ppm	2.649 ppm	2.989 ppm
Concentration RSD	8.1 %	15.2 %	10.8 %
Concentration SD	0.3 ppm	0.3 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.322 ppm	1.098 ppm	54.160 ppm
Concentration per Run 1	-0.453 ppm	1.136 ppm	52.373 ppm
Concentration per Run 2	0.997 ppm	0.777 ppm	53.700 ppm
Concentration per Run 3	0.422 ppm	1.381 ppm	56.408 ppm
Concentration RSD	226.8 %	27.7 %	3.8 %
Concentration SD	0.7 ppm	0.3 ppm	2.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.324 ppm	29,814.197 ppm	574.181 ppm
Concentration per Run 1	0.205 ppm	28,799.418 ppm	571.391 ppm
Concentration per Run 2	0.370 ppm	29,615.862 ppm	572.207 ppm
Concentration per Run 3	0.398 ppm	31,027.312 ppm	578.946 ppm
Concentration RSD	32.2 %	3.8 %	0.7 %
Concentration SD	0.1 ppm	1,127.1 ppm	4.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.625 ppm	-0.839 ppm	-0.095 ppm
Concentration per Run 1	0.363 ppm	0.108 ppm	-0.193 ppm
Concentration per Run 2	-1.153 ppm	-1.588 ppm	0.133 ppm
Concentration per Run 3	-1.085 ppm	-1.037 ppm	-0.225 ppm
Concentration RSD	137.0 %	103.1 %	208.3 %
Concentration SD	0.9 ppm	0.9 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	4.235 ppm	50.447 ppm	97.173 %
Concentration per Run 1	4.178 ppm	50.185 ppm	97.567 %
Concentration per Run 2	3.893 ppm	50.362 ppm	97.416 %
Concentration per Run 3	4.634 ppm	50.796 ppm	96.538 %
Concentration RSD	8.8 %	0.6 %	0.6 %
Concentration SD	0.4 ppm	0.3 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	93.592 %	89.498 %	93.425 %
Concentration per Run 1	93.645 %	89.686 %	93.504 %
Concentration per Run 2	93.544 %	89.407 %	93.413 %
Concentration per Run 3	93.586 %	89.401 %	93.358 %
Concentration RSD	0.1 %	0.2 %	0.1 %
Concentration SD	0.1 %	0.2 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	157.636 ppm	12.336 ppm	0.024 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	95.213 ppm	11.917 ppm	0.010 ppm
Concentration per Run 2	198.269 ppm	12.319 ppm	-0.029 ppm
Concentration per Run 3	179.427 ppm	12.773 ppm	0.090 ppm
Concentration RSD	34.8 %	3.5 %	256.2 %
Concentration SD	54.9 ppm	0.4 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.613 ppm
Concentration per Run 1	1.977 ppm
Concentration per Run 2	-0.007 ppm
Concentration per Run 3	-0.131 ppm
Concentration RSD	192.9 %
Concentration SD	1.2 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	514 cps	5 cps	-2 cps	80,535 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	29,947 cps	3,668 cps	226 cps	1,464 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	174 cps	214 cps	630 cps	17,549 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	659 cps	14 cps	12 cps	19 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	3 cps	7 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	821 cps	5 cps	14,819 cps	2,949 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	-8 cps	76 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5,415 cps	6,233 cps	10,764 cps	3,439 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	161,276 cps	-119 cps	105 cps	4 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729032-06 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 3:58:39 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	549.362 ppm	1.742 ppm	0.009 ppm
Concentration per Run 1	542.828 ppm	-1.530 ppm	-0.034 ppm
Concentration per Run 2	554.461 ppm	4.109 ppm	0.006 ppm
Concentration per Run 3	550.797 ppm	2.647 ppm	0.056 ppm
Concentration RSD	1.1 %	168.0 %	472.9 %
Concentration SD	5.9 ppm	2.9 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	174,147.518 ppm	194,098.297 ppm	371.638 ppm
Concentration per Run 1	172,427.122 ppm	191,619.451 ppm	366.764 ppm
Concentration per Run 2	174,905.392 ppm	195,738.263 ppm	370.849 ppm
Concentration per Run 3	175,110.040 ppm	194,937.175 ppm	377.301 ppm
Concentration RSD	0.9 %	1.1 %	1.4 %
Concentration SD	1,493.4 ppm	2,183.8 ppm	5.3 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	412.712 ppm	217.020 ppm	3.713 ppm
Concentration per Run 1	421.184 ppm	226.127 ppm	2.898 ppm
Concentration per Run 2	384.134 ppm	220.214 ppm	4.064 ppm
Concentration per Run 3	432.819 ppm	204.718 ppm	4.175 ppm
Concentration RSD	6.2 %	5.1 %	19.1 %
Concentration SD	25.4 ppm	11.1 ppm	0.7 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,405.831 ppm	202.895 ppm	1,839.407 ppm
Concentration per Run 1	1,380.654 ppm	202.319 ppm	1,827.120 ppm
Concentration per Run 2	1,426.349 ppm	202.210 ppm	1,843.772 ppm
Concentration per Run 3	1,410.489 ppm	204.155 ppm	1,847.329 ppm
Concentration RSD	1.7 %	0.5 %	0.6 %
Concentration SD	23.2 ppm	1.1 ppm	10.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	26.433 ppm	1.120 ppm	0.563 ppm
Concentration per Run 1	25.976 ppm	-0.027 ppm	0.539 ppm
Concentration per Run 2	26.048 ppm	1.437 ppm	0.528 ppm
Concentration per Run 3	27.276 ppm	1.951 ppm	0.621 ppm
Concentration RSD	2.8 %	91.6 %	9.1 %
Concentration SD	0.7 ppm	1.0 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.827 ppm	0.470 ppm	1.266 ppm
Concentration per Run 1	0.803 ppm	0.656 ppm	1.390 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.725 ppm	0.680 ppm	1.394 ppm
Concentration per Run 3	0.954 ppm	0.074 ppm	1.013 ppm
Concentration RSD	14.1 %	73.1 %	17.3 %
Concentration SD	0.1 ppm	0.3 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.216 ppm	0.313 ppm	13.697 ppm
Concentration per Run 1	-0.030 ppm	0.097 ppm	13.614 ppm
Concentration per Run 2	-0.148 ppm	-0.081 ppm	13.780 ppm
Concentration per Run 3	0.825 ppm	0.923 ppm	13.697 ppm
Concentration RSD	245.9 %	171.1 %	0.6 %
Concentration SD	0.5 ppm	0.5 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.062 ppm	129,995.926 ppm	507.000 ppm
Concentration per Run 1	-0.022 ppm	129,808.850 ppm	508.615 ppm
Concentration per Run 2	0.205 ppm	130,251.941 ppm	508.371 ppm
Concentration per Run 3	0.003 ppm	129,926.986 ppm	504.013 ppm
Concentration RSD	200.6 %	0.2 %	0.5 %
Concentration SD	0.1 ppm	229.4 ppm	2.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.451 ppm	-0.567 ppm	-0.005 ppm
Concentration per Run 1	0.055 ppm	-0.220 ppm	-0.016 ppm
Concentration per Run 2	0.971 ppm	-1.747 ppm	-0.192 ppm
Concentration per Run 3	0.327 ppm	0.266 ppm	0.194 ppm
Concentration RSD	104.3 %	185.3 %	3,898.2 %
Concentration SD	0.5 ppm	1.1 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.488 ppm	9.379 ppm	95.138 %
Concentration per Run 1	0.229 ppm	9.365 ppm	95.909 %
Concentration per Run 2	0.539 ppm	9.371 ppm	94.800 %
Concentration per Run 3	0.696 ppm	9.399 ppm	94.704 %
Concentration RSD	48.7 %	0.2 %	0.7 %
Concentration SD	0.2 ppm	0.0 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	90.269 %	83.769 %	89.839 %
Concentration per Run 1	90.246 %	83.742 %	90.077 %
Concentration per Run 2	90.259 %	83.675 %	89.649 %
Concentration per Run 3	90.303 %	83.890 %	89.791 %
Concentration RSD	0.0 %	0.1 %	0.2 %
Concentration SD	0.0 %	0.1 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	177.908 ppm	4.463 ppm	0.098 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	238.878 ppm	4.421 ppm	0.018 ppm
Concentration per Run 2	91.132 ppm	4.540 ppm	0.119 ppm
Concentration per Run 3	203.715 ppm	4.427 ppm	0.157 ppm
Concentration RSD	43.4 %	1.5 %	73.2 %
Concentration SD	77.2 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.730 ppm
Concentration per Run 1	2.032 ppm
Concentration per Run 2	1.344 ppm
Concentration per Run 3	1.815 ppm
Concentration RSD	20.3 %
Concentration SD	0.4 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	70 cps	4 cps	-2 cps	230,693 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	87,098 cps	378 cps	24 cps	304 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	113 cps	188 cps	815 cps	136,992 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	142 cps	4 cps	3 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	0 cps	4 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	202 cps	3 cps	62,297 cps	2,506 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	-6 cps	23 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	976 cps	6,102 cps	10,382 cps	3,219 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	155,087 cps	-113 cps	36 cps	5 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

L729032-07 WG750261

Sample Type UNKNOWN Analysis Date 10/30/2014 4:03:05 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	1,389.282 ppm	0.153 ppm	0.006 ppm
Concentration per Run 1	1,386.659 ppm	-3.272 ppm	0.002 ppm
Concentration per Run 2	1,381.160 ppm	2.811 ppm	-0.005 ppm
Concentration per Run 3	1,400.026 ppm	0.920 ppm	0.020 ppm
Concentration RSD	0.7 %	2,032.0 %	229.9 %
Concentration SD	9.7 ppm	3.1 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	155,734.450 ppm	174,087.096 ppm	1,026.070 ppm
Concentration per Run 1	155,450.891 ppm	173,712.755 ppm	1,020.117 ppm
Concentration per Run 2	156,084.592 ppm	174,398.191 ppm	1,028.999 ppm
Concentration per Run 3	155,667.867 ppm	174,150.341 ppm	1,029.094 ppm
Concentration RSD	0.2 %	0.2 %	0.5 %
Concentration SD	322.1 ppm	347.1 ppm	5.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1,143.804 ppm	507.510 ppm	5.663 ppm
Concentration per Run 1	1,138.382 ppm	512.229 ppm	5.226 ppm
Concentration per Run 2	1,187.861 ppm	502.002 ppm	5.499 ppm
Concentration per Run 3	1,105.169 ppm	508.299 ppm	6.263 ppm
Concentration RSD	3.6 %	1.0 %	9.5 %
Concentration SD	41.6 ppm	5.2 ppm	0.5 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,901.439 ppm	125.456 ppm	1,614.102 ppm
Concentration per Run 1	1,914.742 ppm	125.043 ppm	1,610.930 ppm
Concentration per Run 2	1,876.772 ppm	127.240 ppm	1,615.138 ppm
Concentration per Run 3	1,912.803 ppm	124.085 ppm	1,616.237 ppm
Concentration RSD	1.1 %	1.3 %	0.2 %
Concentration SD	21.4 ppm	1.6 ppm	2.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	41.763 ppm	6.274 ppm	0.897 ppm
Concentration per Run 1	41.787 ppm	5.676 ppm	1.004 ppm
Concentration per Run 2	42.324 ppm	5.449 ppm	0.845 ppm
Concentration per Run 3	41.177 ppm	7.696 ppm	0.841 ppm
Concentration RSD	1.4 %	19.7 %	10.4 %
Concentration SD	0.6 ppm	1.2 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.518 ppm	0.951 ppm	0.920 ppm
Concentration per Run 1	1.484 ppm	0.969 ppm	1.116 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.555 ppm	0.275 ppm	0.702 ppm
Concentration per Run 3	1.515 ppm	1.610 ppm	0.942 ppm
Concentration RSD	2.3 %	70.2 %	22.6 %
Concentration SD	0.0 ppm	0.7 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.098 ppm	0.567 ppm	17.949 ppm
Concentration per Run 1	0.311 ppm	0.815 ppm	18.068 ppm
Concentration per Run 2	0.346 ppm	0.283 ppm	17.904 ppm
Concentration per Run 3	-0.364 ppm	0.603 ppm	17.875 ppm
Concentration RSD	410.5 %	47.2 %	0.6 %
Concentration SD	0.4 ppm	0.3 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.110 ppm	115,500.441 ppm	394.285 ppm
Concentration per Run 1	0.084 ppm	115,629.883 ppm	393.961 ppm
Concentration per Run 2	0.130 ppm	115,480.916 ppm	393.101 ppm
Concentration per Run 3	0.117 ppm	115,390.525 ppm	395.793 ppm
Concentration RSD	21.6 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	120.9 ppm	1.4 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-1.068 ppm	0.516 ppm	0.007 ppm
Concentration per Run 1	-1.240 ppm	1.805 ppm	-0.005 ppm
Concentration per Run 2	-0.813 ppm	-0.819 ppm	0.131 ppm
Concentration per Run 3	-1.151 ppm	0.561 ppm	-0.104 ppm
Concentration RSD	21.1 %	254.6 %	1,604.3 %
Concentration SD	0.2 ppm	1.3 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	1.350 ppm	20.502 ppm	96.683 %
Concentration per Run 1	1.390 ppm	20.588 ppm	96.825 %
Concentration per Run 2	1.205 ppm	20.558 ppm	96.383 %
Concentration per Run 3	1.455 ppm	20.361 ppm	96.842 %
Concentration RSD	9.6 %	0.6 %	0.3 %
Concentration SD	0.1 ppm	0.1 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.909 %	84.101 %	90.162 %
Concentration per Run 1	90.042 %	84.060 %	89.860 %
Concentration per Run 2	89.711 %	84.126 %	90.183 %
Concentration per Run 3	89.975 %	84.116 %	90.442 %
Concentration RSD	0.2 %	0.0 %	0.3 %
Concentration SD	0.2 %	0.0 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	134.913 ppm	5.356 ppm	0.074 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	162.570 ppm	5.304 ppm	0.033 ppm
Concentration per Run 2	42.270 ppm	5.324 ppm	0.102 ppm
Concentration per Run 3	199.897 ppm	5.438 ppm	0.086 ppm
Concentration RSD	61.1 %	1.4 %	49.0 %
Concentration SD	82.4 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	2.528 ppm
Concentration per Run 1	1.943 ppm
Concentration per Run 2	2.683 ppm
Concentration per Run 3	2.958 ppm
Concentration RSD	20.8 %
Concentration SD	0.5 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	3 cps	-3 cps	209,666 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	79,393 cps	1,035 cps	65 cps	639 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	167 cps	258 cps	515 cps	122,168 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	229 cps	11 cps	6 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	1 cps	3 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	263 cps	3 cps	55,131 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	0 cps	-1 cps	-6 cps	35 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	2,130 cps	6,201 cps	10,340 cps	3,232 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	155,643 cps	-122 cps	44 cps	5 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Cu 324.754 {104} (Radial)
Intensity average	11 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type UNKNOWN Analysis Date 10/30/2014 4:07:30 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	143.877 ppm	14.449 ppm	-0.017 ppm	526.829 ppm
Concentration per Run 1	145.653 ppm	14.522 ppm	-0.016 ppm	530.813 ppm
Concentration per Run 2	143.914 ppm	14.536 ppm	-0.018 ppm	530.763 ppm
Concentration per Run 3	142.065 ppm	14.288 ppm	-0.017 ppm	518.912 ppm
Concentration RSD	1.2 %	1.0 %	4.5 %	1.3 %
Concentration SD	1.8 ppm	0.1 ppm	0.0 ppm	6.9 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	573.432 ppm	203.824 ppm	224.760 ppm	83.121 ppm
Concentration per Run 1	576.609 ppm	205.639 ppm	226.973 ppm	84.349 ppm
Concentration per Run 2	576.859 ppm	205.099 ppm	226.534 ppm	83.155 ppm
Concentration per Run 3	566.828 ppm	200.734 ppm	220.772 ppm	81.859 ppm
Concentration RSD	1.0 %	1.3 %	1.5 %	1.5 %
Concentration SD	5.7 ppm	2.7 ppm	3.5 ppm	1.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2.534 ppm	54.460 ppm	53.932 ppm	3.002 ppm
Concentration per Run 1	2.562 ppm	54.762 ppm	54.567 ppm	3.041 ppm
Concentration per Run 2	2.543 ppm	54.458 ppm	54.167 ppm	3.012 ppm
Concentration per Run 3	2.496 ppm	54.158 ppm	53.061 ppm	2.953 ppm
Concentration RSD	1.4 %	0.6 %	1.4 %	1.5 %
Concentration SD	0.0 ppm	0.3 ppm	0.8 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	16.288 ppm	0.125 ppm	3.362 ppm	5.816 ppm
Concentration per Run 1	16.410 ppm	0.104 ppm	3.347 ppm	5.795 ppm
Concentration per Run 2	16.395 ppm	0.144 ppm	3.372 ppm	5.821 ppm
Concentration per Run 3	16.058 ppm	0.127 ppm	3.366 ppm	5.832 ppm
Concentration RSD	1.2 %	16.1 %	0.4 %	0.3 %
Concentration SD	0.2 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	0.389 ppm	0.515 ppm	-0.001 ppm	0.070 ppm
Concentration per Run 1	0.384 ppm	0.520 ppm	-0.003 ppm	0.075 ppm
Concentration per Run 2	0.402 ppm	0.515 ppm	-0.005 ppm	0.072 ppm
Concentration per Run 3	0.381 ppm	0.512 ppm	0.005 ppm	0.063 ppm
Concentration RSD	3.0 %	0.8 %	605.2 %	9.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	10.228 ppm	0.169 ppm	114.809 ppm	82.724 ppm
Concentration per Run 1	10.188 ppm	0.167 ppm	114.357 ppm	84.742 ppm
Concentration per Run 2	10.221 ppm	0.169 ppm	114.856 ppm	78.107 ppm
Concentration per Run 3	10.274 ppm	0.170 ppm	115.213 ppm	85.322 ppm
Concentration RSD	0.4 %	1.1 %	0.4 %	4.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.4 ppm	4.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.443 ppm	0.096 ppm	0.084 ppm	0.442 ppm
Concentration per Run 1	0.426 ppm	0.094 ppm	0.080 ppm	0.452 ppm
Concentration per Run 2	0.448 ppm	0.096 ppm	0.078 ppm	0.415 ppm
Concentration per Run 3	0.454 ppm	0.097 ppm	0.095 ppm	0.460 ppm
Concentration RSD	3.3 %	1.8 %	11.0 %	5.4 %
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	10.350 ppm	97.454 %	94.308 %	89.720 %
Concentration per Run 1	10.652 ppm	96.580 %	94.487 %	89.911 %
Concentration per Run 2	9.679 ppm	97.086 %	94.593 %	89.793 %
Concentration per Run 3	10.719 ppm	98.698 %	93.844 %	89.455 %
Concentration RSD	5.6 %	1.1 %	0.4 %	0.3 %
Concentration SD	0.6 ppm	1.1 %	0.4 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	94.793 %	59.835 ppm	13.358 ppm	0.009 ppm
Concentration per Run 1	92.756 %	59.760 ppm	13.290 ppm	0.007 ppm
Concentration per Run 2	99.421 %	59.809 ppm	13.374 ppm	0.010 ppm
Concentration per Run 3	92.201 %	59.937 ppm	13.410 ppm	0.009 ppm
Concentration RSD	4.2 %	0.2 %	0.5 %	15.3 %
Concentration SD	4.0 %	0.1 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	7.756 ppm
Concentration per Run 1	7.746 ppm
Concentration per Run 2	7.827 ppm
Concentration per Run 3	7.696 ppm
Concentration RSD	0.9 %
Concentration SD	0.1 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	873 cps	542 cps	-38 cps	36,513 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	13,460 cps	10,432 cps	641 cps	4,927 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,488 cps	380 cps	11,242 cps	11,678 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	4,619 cps	11 cps	1,181 cps	1,517 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	34 cps	59 cps	-3 cps	1 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	7,951 cps	72 cps	2,940 cps	21,833 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	29 cps	2 cps	71 cps	332 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	57,320 cps	6,251 cps	10,846 cps	3,448 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	163,638 cps	410 cps	5,820 cps	9 cps

	Cu 324.754 {104} (Radial)
Intensity average	712 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

CCV

Sample Type QC Analysis Date 10/30/2014 4:11:48 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	9.287 ppm	1.909 ppm	0.185 ppm	46.394 ppm
Concentration per Run 1	9.300 ppm	1.923 ppm	0.186 ppm	46.451 ppm
Concentration per Run 2	9.286 ppm	1.898 ppm	0.185 ppm	46.477 ppm
Concentration per Run 3	9.275 ppm	1.907 ppm	0.184 ppm	46.255 ppm
Concentration RSD	0.1 %	0.7 %	0.5 %	0.3 %
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	50.129 ppm	9.329 ppm	10.362 ppm	48.704 ppm
Concentration per Run 1	50.126 ppm	9.324 ppm	10.390 ppm	48.778 ppm
Concentration per Run 2	50.128 ppm	9.347 ppm	10.382 ppm	48.820 ppm
Concentration per Run 3	50.132 ppm	9.317 ppm	10.316 ppm	48.515 ppm
Concentration RSD	0.0 %	0.2 %	0.4 %	0.3 %
Concentration SD	0.0 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	1.466 ppm	9.371 ppm	47.428 ppm	0.962 ppm
Concentration per Run 1	1.468 ppm	9.403 ppm	47.490 ppm	0.963 ppm
Concentration per Run 2	1.466 ppm	9.342 ppm	47.522 ppm	0.963 ppm
Concentration per Run 3	1.464 ppm	9.369 ppm	47.273 ppm	0.959 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	0.3 %
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	0.977 ppm	0.960 ppm	0.983 ppm	1.994 ppm
Concentration per Run 1	0.978 ppm	0.968 ppm	0.981 ppm	1.994 ppm
Concentration per Run 2	0.977 ppm	0.962 ppm	0.985 ppm	1.996 ppm
Concentration per Run 3	0.976 ppm	0.950 ppm	0.982 ppm	1.991 ppm
Concentration RSD	0.1 %	1.0 %	0.2 %	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	0.486 ppm	1.947 ppm	1.901 ppm	1.961 ppm
Concentration per Run 1	0.487 ppm	1.945 ppm	1.905 ppm	1.957 ppm
Concentration per Run 2	0.488 ppm	1.949 ppm	1.905 ppm	1.973 ppm
Concentration per Run 3	0.485 ppm	1.948 ppm	1.895 ppm	1.952 ppm
Concentration RSD	0.2 %	0.1 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.483 ppm	0.494 ppm	4.462 ppm	1.932 ppm
Concentration per Run 1	0.483 ppm	0.493 ppm	4.454 ppm	1.936 ppm
Concentration per Run 2	0.484 ppm	0.495 ppm	4.476 ppm	1.927 ppm
Concentration per Run 3	0.482 ppm	0.493 ppm	4.457 ppm	1.932 ppm
Concentration RSD	0.1 %	0.3 %	0.3 %	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	1.938 ppm	2.025 ppm	0.986 ppm	0.983 ppm
Concentration per Run 1	1.934 ppm	2.025 ppm	0.986 ppm	0.984 ppm
Concentration per Run 2	1.942 ppm	2.033 ppm	0.986 ppm	0.979 ppm
Concentration per Run 3	1.938 ppm	2.017 ppm	0.985 ppm	0.985 ppm
Concentration RSD	0.2 %	0.4 %	0.0 %	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	1.009 ppm	97.300 %	94.256 %	87.650 %
Concentration per Run 1	1.010 ppm	97.356 %	94.119 %	87.531 %
Concentration per Run 2	1.006 ppm	96.981 %	94.052 %	87.503 %
Concentration per Run 3	1.010 ppm	97.562 %	94.596 %	87.914 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.3 %	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	92.549 %	49.579 ppm	2.878 ppm	0.523 ppm
Concentration per Run 1	92.460 %	49.697 ppm	2.871 ppm	0.523 ppm
Concentration per Run 2	92.789 %	49.658 ppm	2.882 ppm	0.524 ppm
Concentration per Run 3	92.397 %	49.381 ppm	2.882 ppm	0.523 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.2 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.879 ppm
Concentration per Run 1	1.890 ppm
Concentration per Run 2	1.878 ppm
Concentration per Run 3	1.869 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	565 cps	714 cps	3,830 cps	32,112 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11,751 cps	4,776 cps	296 cps	28,524 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	20,077 cps	653 cps	98,660 cps	37,368 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,767 cps	647 cps	3,373 cps	5,077 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	428 cps	2,113 cps	1,233 cps	865 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,755 cps	2,041 cps	1,147 cps	4,999 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,241 cps	753 cps	8,860 cps	6,852 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	54,636 cps	6,241 cps	10,840 cps	3,368 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,764 cps	4,467 cps	12,534 cps	2,949 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,712 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

CCB

Sample Type QC Analysis Date 10/30/2014 4:15:54 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	-0.013 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.009 ppm	0.005 ppm	0.000 ppm	0.003 ppm
Concentration per Run 2	0.034 ppm	-0.005 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.064 ppm	-0.004 ppm	0.000 ppm	-0.003 ppm
Concentration RSD	380.9 %	367.9 %	86.8 %	970.4 %
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	0.002 ppm	0.003 ppm	-0.067 ppm	0.006 ppm
Concentration per Run 1	-0.001 ppm	0.003 ppm	-0.061 ppm	-0.018 ppm
Concentration per Run 2	0.008 ppm	0.002 ppm	-0.062 ppm	0.019 ppm
Concentration per Run 3	0.000 ppm	0.003 ppm	-0.078 ppm	0.019 ppm
Concentration RSD	216.3 %	6.7 %	14.0 %	332.8 %
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	0.002 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.005 ppm	0.010 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.009 ppm	-0.003 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.009 ppm	0.001 ppm	0.000 ppm
Concentration RSD	622.2 %	507.7 %	261.8 %	153.7 %
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	0.001 ppm	-0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.006 ppm	0.000 ppm	0.000 ppm
Concentration RSD	104.1 %	117.8 %	86.2 %	114.1 %
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	0.000 ppm	0.000 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	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	51.8 %	2,129.2 %	139.0 %	2,480.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	0.005 ppm	0.002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.003 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.004 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.008 ppm	0.001 ppm
Concentration RSD	252.4 %	236.1 %	50.0 %	47.2 %
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	0.001 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	-0.002 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	352.8 %	36.9 %	516.2 %	262.8 %
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	98.461 %	99.908 %	100.623 %
Concentration per Run 1	0.000 ppm	98.139 %	99.915 %	100.709 %
Concentration per Run 2	0.000 ppm	98.607 %	99.650 %	100.397 %
Concentration per Run 3	0.000 ppm	98.637 %	100.158 %	100.764 %
Concentration RSD	19.0 %	0.3 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.3 %	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	98.312 %	-0.006 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	98.124 %	0.009 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	98.763 %	-0.037 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	98.048 %	0.010 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.4 %	445.4 %	69.3 %	84.0 %
Concentration SD	0.4 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	-0.002 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.001 ppm
Concentration RSD	570.3 %
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	6 cps	2 cps	-2 cps	49 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	15 cps	17 cps	0 cps	66 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	15 cps	0 cps	12 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	0 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	0 cps	2 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	3 cps	3 cps	9 cps	25 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	19 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	15 cps	6,315 cps	11,490 cps	3,867 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	169,713 cps	-150 cps	0 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type QC Analysis Date 10/30/2014 4:20:25 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	0.112 ppm	0.195 ppm	0.002 ppm	0.532 ppm
Concentration per Run 1	0.105 ppm	0.194 ppm	0.002 ppm	0.521 ppm
Concentration per Run 2	0.109 ppm	0.198 ppm	0.002 ppm	0.550 ppm
Concentration per Run 3	0.123 ppm	0.194 ppm	0.002 ppm	0.525 ppm
Concentration RSD	8.4 %	1.3 %	3.0 %	3.0 %
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	0.576 ppm	0.116 ppm	0.069 ppm	0.539 ppm
Concentration per Run 1	0.561 ppm	0.112 ppm	0.091 ppm	0.530 ppm
Concentration per Run 2	0.592 ppm	0.122 ppm	0.082 ppm	0.566 ppm
Concentration per Run 3	0.574 ppm	0.112 ppm	0.035 ppm	0.522 ppm
Concentration RSD	2.7 %	4.9 %	43.7 %	4.4 %
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	0.017 ppm	0.115 ppm	0.541 ppm	0.010 ppm
Concentration per Run 1	0.016 ppm	0.105 ppm	0.530 ppm	0.010 ppm
Concentration per Run 2	0.017 ppm	0.126 ppm	0.562 ppm	0.011 ppm
Concentration per Run 3	0.017 ppm	0.114 ppm	0.531 ppm	0.010 ppm
Concentration RSD	2.1 %	9.3 %	3.4 %	2.7 %
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	0.010 ppm	0.010 ppm	0.021 ppm
Concentration per Run 1	0.011 ppm	0.010 ppm	0.010 ppm	0.021 ppm
Concentration per Run 2	0.012 ppm	0.012 ppm	0.010 ppm	0.021 ppm
Concentration per Run 3	0.010 ppm	0.008 ppm	0.010 ppm	0.021 ppm
Concentration RSD	5.3 %	21.4 %	2.1 %	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	0.005 ppm	0.019 ppm	0.020 ppm	0.020 ppm
Concentration per Run 1	0.005 ppm	0.020 ppm	0.021 ppm	0.020 ppm
Concentration per Run 2	0.005 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 3	0.006 ppm	0.019 ppm	0.020 ppm	0.018 ppm
Concentration RSD	14.7 %	1.7 %	4.1 %	6.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	4.414 ppm	0.193 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.426 ppm	0.194 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.412 ppm	0.193 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.406 ppm	0.193 ppm
Concentration RSD	1.3 %	1.5 %	0.2 %	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	0.021 ppm	0.017 ppm	0.010 ppm	0.011 ppm
Concentration per Run 1	0.021 ppm	0.016 ppm	0.010 ppm	0.011 ppm
Concentration per Run 2	0.021 ppm	0.017 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.021 ppm	0.019 ppm	0.011 ppm	0.011 ppm
Concentration RSD	0.5 %	9.4 %	3.9 %	3.9 %
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	0.011 ppm	94.867 %	98.710 %	98.794 %
Concentration per Run 1	0.011 ppm	96.224 %	98.786 %	98.784 %
Concentration per Run 2	0.011 ppm	91.957 %	98.648 %	98.718 %
Concentration per Run 3	0.011 ppm	96.419 %	98.696 %	98.878 %
Concentration RSD	0.2 %	2.7 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	2.5 %	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	96.452 %	0.594 ppm	0.036 ppm	0.005 ppm
Concentration per Run 1	96.113 %	0.671 ppm	0.036 ppm	0.005 ppm
Concentration per Run 2	96.701 %	0.553 ppm	0.036 ppm	0.005 ppm
Concentration per Run 3	96.540 %	0.559 ppm	0.035 ppm	0.005 ppm
Concentration RSD	0.3 %	11.3 %	0.5 %	1.1 %
Concentration SD	0.3 %	0.1 ppm	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	0.024 ppm
Concentration per Run 3	0.019 ppm
Concentration RSD	11.2 %
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	13 cps	74 cps	38 cps	406 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	145 cps	72 cps	4 cps	367 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	238 cps	7 cps	1,103 cps	389 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	29 cps	9 cps	39 cps	63 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	25 cps	12 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	46 cps	26 cps	1,188 cps	540 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	15 cps	5 cps	90 cps	95 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	636 cps	6,085 cps	11,352 cps	3,796 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	166,501 cps	-90 cps	162 cps	36 cps

	Cu 324.754 {104} (Radial)
Intensity average	26 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

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Sample Type QC Analysis Date 10/30/2014 11:26:17 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	456.952 ppm	-0.008 ppm	0.000 ppm	450.578 ppm
Concentration per Run 1	454.718 ppm	-0.017 ppm	0.000 ppm	448.202 ppm
Concentration per Run 2	458.663 ppm	-0.004 ppm	0.000 ppm	453.171 ppm
Concentration per Run 3	457.476 ppm	-0.004 ppm	0.000 ppm	450.360 ppm
Concentration RSD	0.4 %	90.5 %	734.2 %	0.6 %
Concentration SD	2.0 ppm	0.0 ppm	0.0 ppm	2.5 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	494.386 ppm	182.115 ppm	205.667 ppm	0.010 ppm
Concentration per Run 1	492.293 ppm	180.983 ppm	204.337 ppm	0.021 ppm
Concentration per Run 2	497.595 ppm	183.033 ppm	206.784 ppm	0.001 ppm
Concentration per Run 3	493.269 ppm	182.329 ppm	205.881 ppm	0.008 ppm
Concentration RSD	0.6 %	0.6 %	0.6 %	98.3 %
Concentration SD	2.8 ppm	1.0 ppm	1.2 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	535.388 ppm	0.014 ppm	0.008 ppm
Concentration per Run 1	0.004 ppm	532.760 ppm	0.017 ppm	0.008 ppm
Concentration per Run 2	0.004 ppm	538.942 ppm	0.016 ppm	0.007 ppm
Concentration per Run 3	0.005 ppm	534.460 ppm	0.009 ppm	0.008 ppm
Concentration RSD	22.5 %	0.6 %	31.1 %	0.6 %
Concentration SD	0.0 ppm	3.2 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	-0.008 ppm	0.001 ppm	0.001 ppm	-0.016 ppm
Concentration per Run 1	-0.008 ppm	-0.002 ppm	0.001 ppm	-0.016 ppm
Concentration per Run 2	-0.007 ppm	-0.003 ppm	0.001 ppm	-0.016 ppm
Concentration per Run 3	-0.009 ppm	0.007 ppm	0.001 ppm	-0.016 ppm
Concentration RSD	10.4 %	866.3 %	9.7 %	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	-0.033 ppm	0.002 ppm	0.005 ppm	-0.002 ppm
Concentration per Run 1	-0.030 ppm	0.001 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 2	-0.033 ppm	0.002 ppm	0.005 ppm	0.000 ppm
Concentration per Run 3	-0.036 ppm	0.001 ppm	0.005 ppm	-0.004 ppm
Concentration RSD	9.6 %	35.5 %	6.2 %	85.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	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	0.004 ppm	0.003 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.012 ppm	0.003 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.003 ppm	0.003 ppm
Concentration RSD	6.8 %	53.5 %	146.2 %	43.3 %
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	-0.006 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	-0.008 ppm	0.002 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.005 ppm	0.010 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	-0.004 ppm	-0.004 ppm	0.001 ppm	0.000 ppm
Concentration RSD	38.4 %	255.0 %	649.2 %	53.4 %
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	-0.006 ppm	88.202 %	86.717 %	71.794 %
Concentration per Run 1	-0.006 ppm	88.480 %	86.878 %	71.932 %
Concentration per Run 2	-0.006 ppm	87.860 %	86.833 %	71.852 %
Concentration per Run 3	-0.006 ppm	88.267 %	86.441 %	71.599 %
Concentration RSD	2.0 %	0.4 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.3 %	0.2 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	79.973 %	0.218 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 1	80.674 %	0.114 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 2	79.525 %	0.187 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 3	79.721 %	0.354 ppm	0.005 ppm	-0.003 ppm
Concentration RSD	0.8 %	56.4 %	4.4 %	11.1 %
Concentration SD	0.6 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.002 ppm
Concentration per Run 1	0.005 ppm
Concentration per Run 2	-0.001 ppm
Concentration per Run 3	0.004 ppm
Concentration RSD	131.1 %
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	24,901 cps	0 cps	-2 cps	282,325 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	104,936 cps	84,257 cps	5,294 cps	62 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	68 cps	33,849 cps	33 cps	259 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	3 cps	2 cps	-32 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-25 cps	3 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	16 cps	1 cps	8 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	-2 cps	0 cps	-4 cps	18 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-272 cps	5,657 cps	9,973 cps	2,759 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	138,055 cps	-116 cps	21 cps	-12 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

ICSAB 14J10824

Sample Type QC Analysis Date 10/30/2014 11:30:43 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	439.524 ppm	0.958 ppm	0.418 ppm	436.578 ppm
Concentration per Run 1	433.863 ppm	0.948 ppm	0.413 ppm	433.403 ppm
Concentration per Run 2	440.187 ppm	0.952 ppm	0.419 ppm	435.829 ppm
Concentration per Run 3	444.522 ppm	0.975 ppm	0.423 ppm	440.503 ppm
Concentration RSD	1.2 %	1.5 %	1.2 %	0.8 %
Concentration SD	5.4 ppm	0.0 ppm	0.0 ppm	3.6 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	479.919 ppm	177.294 ppm	199.392 ppm	0.015 ppm
Concentration per Run 1	475.921 ppm	175.852 ppm	198.138 ppm	0.012 ppm
Concentration per Run 2	479.225 ppm	177.168 ppm	198.657 ppm	0.021 ppm
Concentration per Run 3	484.612 ppm	178.862 ppm	201.383 ppm	0.012 ppm
Concentration RSD	0.9 %	0.9 %	0.9 %	36.2 %
Concentration SD	4.4 ppm	1.5 ppm	1.7 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	521.459 ppm	0.017 ppm	0.007 ppm
Concentration per Run 1	0.004 ppm	518.051 ppm	0.016 ppm	0.007 ppm
Concentration per Run 2	0.004 ppm	520.674 ppm	0.013 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	525.653 ppm	0.021 ppm	0.007 ppm
Concentration RSD	5.8 %	0.7 %	23.2 %	3.8 %
Concentration SD	0.0 ppm	3.9 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	0.455 ppm	0.464 ppm	0.495 ppm	1.007 ppm
Concentration per Run 1	0.449 ppm	0.462 ppm	0.496 ppm	1.006 ppm
Concentration per Run 2	0.457 ppm	0.464 ppm	0.496 ppm	1.005 ppm
Concentration per Run 3	0.458 ppm	0.466 ppm	0.495 ppm	1.009 ppm
Concentration RSD	1.1 %	0.4 %	0.1 %	0.2 %
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	0.974 ppm	0.505 ppm	0.457 ppm	0.480 ppm
Concentration per Run 1	0.969 ppm	0.508 ppm	0.458 ppm	0.482 ppm
Concentration per Run 2	0.976 ppm	0.503 ppm	0.455 ppm	0.478 ppm
Concentration per Run 3	0.976 ppm	0.504 ppm	0.457 ppm	0.480 ppm
Concentration RSD	0.5 %	0.5 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

10/31/2014 7:46:52 AM

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.441 ppm	0.454 ppm	-0.006 ppm	1.022 ppm
Concentration per Run 1	0.441 ppm	0.454 ppm	-0.010 ppm	1.040 ppm
Concentration per Run 2	0.440 ppm	0.453 ppm	-0.004 ppm	1.015 ppm
Concentration per Run 3	0.441 ppm	0.454 ppm	-0.005 ppm	1.012 ppm
Concentration RSD	0.1 %	0.2 %	54.9 %	1.5 %
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	0.454 ppm	0.494 ppm	1.160 ppm	0.497 ppm
Concentration per Run 1	0.452 ppm	0.489 ppm	1.183 ppm	0.504 ppm
Concentration per Run 2	0.457 ppm	0.501 ppm	1.147 ppm	0.492 ppm
Concentration per Run 3	0.454 ppm	0.492 ppm	1.150 ppm	0.495 ppm
Concentration RSD	0.5 %	1.3 %	1.7 %	1.2 %
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	0.510 ppm	89.038 %	87.745 %	72.497 %
Concentration per Run 1	0.516 ppm	88.903 %	87.646 %	72.420 %
Concentration per Run 2	0.507 ppm	89.535 %	87.711 %	72.499 %
Concentration per Run 3	0.506 ppm	88.675 %	87.879 %	72.573 %
Concentration RSD	1.1 %	0.5 %	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	79.743 %	0.175 ppm	0.911 ppm	1.020 ppm
Concentration per Run 1	78.733 %	0.092 ppm	0.910 ppm	1.021 ppm
Concentration per Run 2	80.272 %	0.317 ppm	0.909 ppm	1.020 ppm
Concentration per Run 3	80.224 %	0.117 ppm	0.912 ppm	1.019 ppm
Concentration RSD	1.1 %	70.6 %	0.1 %	0.1 %
Concentration SD	0.9 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.460 ppm
Concentration per Run 1	0.454 ppm
Concentration per Run 2	0.462 ppm
Concentration per Run 3	0.463 ppm
Concentration RSD	1.1 %
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	24,178 cps	329 cps	7,923 cps	276,146 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	102,831 cps	82,804 cps	5,181 cps	65 cps

Comprehensive sample report

10/31/2014 7:46:52 AM

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	67 cps	33,281 cps	38 cps	247 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,178 cps	288 cps	1,407 cps	2,121 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	710 cps	454 cps	243 cps	195 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,190 cps	1,745 cps	6 cps	2,288 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	272 cps	170 cps	8,984 cps	2,992 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	23,786 cps	5,711 cps	10,091 cps	2,786 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	137,658 cps	-120 cps	3,691 cps	5,346 cps

	Cu 324.754 {104} (Radial)
Intensity average	388 cps

Sample Information Detail Report
Document Name: 110314ICP11

File Description
Default Sample Information File

Parameters Common to All Samples

Analyst Name	388
YTTRIUM	14J27640
CAL STD	14J27638
ICV STD	14J27639
CCV STD	14J27642
ICSA/B	14J27643/644

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Vol.
1	18	ICSA	
2	19	ICSAB	
3	71	BLANK WG752045	
4	72	LCS WG752045	
5	73	LCSD WG752045	
6	74	L729563-01 WG752045	
7	75	SD L729563-01 WG752	
8	77	MS L729563-01 WG752	
9	78	MSD L729563-01 WG75	
10	79	L729563-02 WG752045	
11	80	L729563-04 WG752045	
12	81	L729563-05 WG752045	
13	82	L729563-06 WG752045	
14	83	L729564-01 WG752045	
15	84	L729564-02 WG752045	
16	85	L729564-04 WG752045	
17	86	L729564-05 WG752045	
18	131	BLANK WG752044	
19	132	LCS WG752044	
20	133	LCSD WG752044	
21	134	L729024-01 WG752044	
22	135	SD L729024-01 WG752	
23	137	MS L729024-01 WG752	
24	138	MSD L729024-01 WG75	
25	139	L729024-02 WG752044	
26	140	L729024-04 WG752044	
27	141	L729024-05 WG752044	
28	142	L729026-01 WG752044	
29	143	L729026-02 WG752044	
30	144	L729026-03 WG752044	
31	145	L729026-05 WG752044	
32	146	L729026-06 WG752044	
33	147	L729030-01 WG752044	
34	148	L729030-02 WG752044	
35	149	L729030-04 WG752044	
36	150	L729030-05 WG752044	
37	151	L729032-01 WG752044	
38	152	L729032-02 WG752044	
39	153	L729032-04 WG752044	
40	154	L729032-05 WG752044	
41	155	L729032-06 WG752044	
42	156	L729032-07 WG752044	
43	191	BLANK WG752285	
44	192	LCS WG752285	
45	193	LCSD WG752285	
46	194	L729802-01 WG752285	
47	195	SD L729802-01 WG752	
48	196	PS L729802-01 WG752	
49	197	MS L729802-01 WG752	

50	198	MSD L729802-01 WG75	
51	199	L729802-03 WG752285	
52	200	L729802-04 WG752285	
53	201	L729802-05 WG752285	
54	71	BLANK WG752072	45
55	72	LCS WG752072	45
56	73	LCSD WG752072	45
57	74	L730147-18 WG752072	45
58	75	SD L730147-18 WG752	45
59	76	PS L730147-18 WG752	45
60	77	MS L730147-18 WG752	45
61	78	MSD L730147-18 WG75	45
62	79	L730147-05 WG752072	45
63	80	MS L730147-05 WG752	45
64	81	MSD L730147-05 WG75	45
65	191	BLANK WG752332	
66	192	LCS WG752332	
67	193	LCSD WG752332	
68	194	L729568-02 WG752332	
69	195	SD L729568-02 WG752	
70	197	MS L729568-02 WG752	
71	198	MSD L729568-02 WG75	
72	199	L729568-01 WG752332	
73	200	L729568-04 WG752332	
74	201	L729568-05 WG752332	

Sample No	Initial Sample Wt.	Volume Units	Weight Units
1		mL	g
2		mL	g
3	0.5	mL	g
4	0.5	mL	g
5	0.5	mL	g
6	0.51	mL	g
7	0.51	mL	g
8	0.51	mL	g
9	0.5	mL	g
10	0.51	mL	g
11	0.49	mL	g
12	0.5	mL	g
13	0.49	mL	g
14	0.49	mL	g
15	0.49	mL	g
16	0.51	mL	g
17	0.48	mL	g
18	0.52	mL	g
19	0.5	mL	g
20	0.5	mL	g
21	0.52	mL	g
22	0.52	mL	g
23	0.51	mL	g
24	0.53	mL	g
25	0.53	mL	g
26	0.53	mL	g
27	0.54	mL	g
28	0.5	mL	g
29	0.52	mL	g
30	0.53	mL	g
31	0.52	mL	g
32	0.55	mL	g
33	0.55	mL	g
34	0.54	mL	g
35	0.51	mL	g
36	0.51	mL	g
37	0.52	mL	g

38	0.54	mL	g
39	0.52	mL	g
40	0.51	mL	g
41	0.5	mL	g
42	0.51	mL	g
43	0.48	mL	g
44	0.48	mL	g
45	0.5	mL	g
46	0.53	mL	g
47	0.53	mL	g
48	0.53	mL	g
49	0.53	mL	g
50	0.48	mL	g
51	0.51	mL	g
52	0.49	mL	g
53	0.49	mL	g
54		mL	g
55		mL	g
56		mL	g
57		mL	g
58		mL	g
59		mL	g
60		mL	g
61		mL	g
62		mL	g
63		mL	g
64		mL	g
65	0.5	mL	g
66	0.5	mL	g
67	0.5	mL	g
68	0.49	mL	g
69	0.49	mL	g
70	0.45	mL	g
71	0.45	mL	g
72	0.45	mL	g
73	0.49	mL	g
74	0.53	mL	g

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
1			
2			
3	50		
4	50		
5	50		
6	50	1	5
7	50	1	25
8	50	1	5
9	50	1	5
10	50	1	5
11	50	1	5
12	50	1	5
13	50	1	5
14	50	1	5
15	50	1	5
16	50	1	5
17	50	1	5
18	50		
19	50		
20	50		
21	50	1	5
22	50	1	25
23	50	1	5
24	50	1	5
25	50	1	5

26	50	1	5
27	50	1	5
28	50	1	5
29	50	1	5
30	50	1	5
31	50	1	5
32	50	1	5
33	50	1	5
34	50	1	5
35	50	1	5
36	50	1	5
37	50	1	5
38	50	1	5
39	50	1	5
40	50	1	5
41	50	1	5
42	50	1	5
43	50		
44	50		
45	50		
46	50	1	5
47	50	1	25
48	50	1	5
49	50	1	5
50	50	1	5
51	50	1	5
52	50	1	5
53	50	1	5
54	50		
55	50		
56	50		
57	50	1	5
58	50	1	25
59	50	1	5
60	50	1	5
61	50	1	5
62	50	1	5
63	50	1	5
64	50	1	5
65	50		
66	50		
67	50		
68	50	1	5
69	50	1	25
70	50	1	5
71	50	1	5
72	50	1	5
73	50	1	5
74	50	1	5

Sample No	**Remarks**	**Sample Units ***	**Batch ID**
1		mg/L	
2		mg/L	
3	SS	mg/kg	388/388
4	SS	mg/kg	388/388
5	SS	mg/kg	388/388
6	SS	mg/kg	388/388
7	SS	mg/kg	388/388
8	SS	mg/kg	388/388
9	SS	mg/kg	388/388
10	SS	mg/kg	388/388
11	SS	mg/kg	388/388
12	SS	mg/kg	388/388
13	SS	mg/kg	388/388

14	SS	mg/kg	388/388
15	SS	mg/kg	388/388
16	SS	mg/kg	388/388
17	SS	mg/kg	388/388
18	SS	mg/kg	388/388
19	SS	mg/kg	388/388
20	SS	mg/kg	388/388
21	SS	mg/kg	388/388
22	SS	mg/kg	388/388
23	SS	mg/kg	388/388
24	SS	mg/kg	388/388
25	SS	mg/kg	388/388
26	SS	mg/kg	388/388
27	SS	mg/kg	388/388
28	SS	mg/kg	388/388
29	SS	mg/kg	388/388
30	SS	mg/kg	388/388
31	SS	mg/kg	388/388
32	SS	mg/kg	388/388
33	SS	mg/kg	388/388
34	SS	mg/kg	388/388
35	SS	mg/kg	388/388
36	SS	mg/kg	388/388
37	SS	mg/kg	388/388
38	SS	mg/kg	388/388
39	SS	mg/kg	388/388
40	SS	mg/kg	388/388
41	SS	mg/kg	388/388
42	SS	mg/kg	388/388
43	SS	mg/kg	388/388
44	SS	mg/kg	388/388
45	SS	mg/kg	388/388
46	SS	mg/kg	388/388
47	SS	mg/kg	388/388
48	SS	mg/kg	388/388
49	SS	mg/kg	388/388
50	SS	mg/kg	388/388
51	SS	mg/kg	388/388
52	SS	mg/kg	388/388
53	SS	mg/kg	388/388
54	GW	mg/L	388/388
55	GW	mg/L	388/388
56	GW	mg/L	388/388
57	GW	mg/L	388/388
58	GW	mg/L	388/388
59	GW	mg/L	388/388
60	GW	mg/L	388/388
61	GW	mg/L	388/388
62	GW	mg/L	388/388
63	GW	mg/L	388/388
64	GW	mg/L	388/388
65	SS	mg/kg	388/388
66	SS	mg/kg	388/388
67	SS	mg/kg	388/388
68	SS	mg/kg	388/388
69	SS	mg/kg	388/388
70	SS	mg/kg	388/388
71	SS	mg/kg	388/388
72	SS	mg/kg	388/388
73	SS	mg/kg	388/388
74	SS	mg/kg	388/388

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Analysis Begun

Start Time: 11/3/2014 7:43:48 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 7:43:28 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 1 **Autosampler Location: 11**
Sample ID: CALBLK **Date Collected: 11/3/2014 7:43:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: CALBLK

Analyte	Back Pressure	Flow
All	181.0 kPa	0.55 L/min

Mean Data: CALBLK

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2618120.3	49698.69	1.90%	100.0	mg/L
Y 360.073 R	59938.4	958.14	1.60%	10.000	mg/L
Ag 328.068†	-2384.4	150.55	6.31%	[0.00]	mg/L
Al 308.215†	100.9	3.13	3.10%	[0.00]	mg/L
As 188.979†	-20.8	1.95	9.37%	[0.00]	mg/L
Ba 233.527†	-47.1	6.52	13.86%	[0.00]	mg/L
Be 313.107†	618.6	26.10	4.22%	[0.00]	mg/L
Ca 315.887†	-25782.2	545.56	2.12%	[0.00]	mg/L
Cd 214.440†	694.6	29.45	4.24%	[0.00]	mg/L
Co 228.616†	-249.0	11.67	4.69%	[0.00]	mg/L
Cr 205.560†	-75.0	8.88	11.85%	[0.00]	mg/L
Cu 324.752†	2794.3	62.19	2.23%	[0.00]	mg/L
Fe 238.863†	316.2	15.54	4.91%	[0.00]	mg/L
Mg 279.077†	-26.7	13.80	51.69%	[0.00]	mg/L
Mn 257.610†	1341.9	35.84	2.67%	[0.00]	mg/L
Mo 202.031†	70.2	5.12	7.29%	[0.00]	mg/L
Ni 232.003†	-958.1	16.89	1.76%	[0.00]	mg/L
Pb 220.353†	71.3	7.56	10.60%	[0.00]	mg/L
Sb 206.836†	84.5	0.76	0.90%	[0.00]	mg/L
Se 196.026†	96.9	1.54	1.59%	[0.00]	mg/L
Si 251.611†	87.1	2.51	2.89%	[0.00]	mg/L
Sn 189.927†	51.9	2.71	5.23%	[0.00]	mg/L
Tl 190.801†	-30.3	3.82	12.61%	[0.00]	mg/L
V 292.402†	110.8	60.48	54.60%	[0.00]	mg/L
Zn 213.857†	293.1	7.08	2.42%	[0.00]	mg/L
Ti 334.940†	154.8	80.92	52.26%	[0.00]	mg/L
B 249.772†	14.4	0.63	4.36%	[0.00]	mg/L
Na 589.592†	371.4	45.07	12.14%	[0.00]	mg/L
K 766.490†	592.3	78.59	13.27%	[0.00]	mg/L
Li 670.784†	342.1	51.81	15.14%	[0.00]	mg/L
Sr 407.771†	-155.0	25.19	16.25%	[0.00]	mg/L

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 7:43:28 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 2 **Autosampler Location: 12**
Sample ID: STD1 14J27638 **Date Collected: 11/3/2014 7:48:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD1 14J27638

Analyte	Back Pressure	Flow
All	182.0 kPa	0.55 L/min

Mean Data: STD1 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2659939.2	9206.23	0.35%	101.6	mg/L
Y 360.073 R	61216.2	749.19	1.22%	10.21	mg/L
Ag 328.068†	1689.2	59.60	3.53%	[0.01]	mg/L
Al 308.215†	31.9	4.84	15.16%	[0.1]	mg/L
As 188.979†	9.9	5.10	51.60%	[0.02]	mg/L
Ba 233.527†	419.5	8.83	2.11%	[0.005]	mg/L
Be 313.107†	3114.3	26.22	0.84%	[0.002]	mg/L
Ca 315.887†	31399.7	321.04	1.02%	[0.5]	mg/L
Cd 214.440†	326.1	8.40	2.58%	[0.005]	mg/L
Co 228.616†	318.9	4.21	1.32%	[0.01]	mg/L
Cr 205.560†	238.9	6.49	2.72%	[0.01]	mg/L
Cu 324.752†	2902.2	33.65	1.16%	[0.02]	mg/L
Fe 238.863†	1759.1	11.72	0.67%	[0.1]	mg/L
Mg 279.077†	693.8	4.77	0.69%	[0.1]	mg/L
Mn 257.610†	6083.0	102.01	1.68%	[0.01]	mg/L
Mo 202.031†	47.4	4.51	9.51%	[0.005]	mg/L
Ni 232.003†	181.3	9.80	5.41%	[0.02]	mg/L
Pb 220.353†	9.2	3.87	42.00%	[0.005]	mg/L
Sb 206.836†	38.2	7.89	20.65%	[0.02]	mg/L
Se 196.026†	9.6	1.82	18.94%	[0.02]	mg/L
Si 251.611†	3.2	4.67	145.44%	[0.02]	mg/L
Sn 189.927†	85.2	4.90	5.75%	[0.02]	mg/L
Tl 190.801†	27.9	2.92	10.47%	[0.02]	mg/L
V 292.402†	900.2	55.92	6.21%	[0.01]	mg/L
Zn 213.857†	1770.0	10.35	0.58%	[0.03]	mg/L
Ti 334.940†	6925.8	130.02	1.88%	[0.01]	mg/L
B 249.772†	19.2	1.99	10.41%	[0.02]	mg/L
Na 589.592†	2258.3	60.56	2.68%	[0.5]	mg/L
K 766.490†	371.8	98.33	26.45%	[0.5]	mg/L
Li 670.784†	422.8	34.38	8.13%	[0.015]	mg/L
Sr 407.771†	4074.0	32.49	0.80%	[0.01]	mg/L

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 7:43:28 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 3 **Autosampler Location: 13**
Sample ID: STD2 14J27638 **Date Collected: 11/3/2014 7:53:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD2 14J27638

Analyte	Back Pressure	Flow
All	184.0 kPa	0.55 L/min

Mean Data: STD2 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2644044.1	21704.45	0.82%	101.0	mg/L
Y 360.073 R	59956.9	342.25	0.57%	10.00	mg/L
Ag 328.068†	32206.6	405.13	1.26%	[0.2]	mg/L
Al 308.215†	720.3	16.51	2.29%	[2]	mg/L
As 188.979†	342.6	3.02	0.88%	[0.4]	mg/L
Ba 233.527†	8411.0	130.47	1.55%	[0.1]	mg/L
Be 313.107†	64565.4	923.96	1.43%	[0.04]	mg/L
Ca 315.887†	611558.3	1590.43	0.26%	[10]	mg/L
Cd 214.440†	6885.3	105.49	1.53%	[0.1]	mg/L
Co 228.616†	6248.6	91.07	1.46%	[0.2]	mg/L
Cr 205.560†	4783.6	73.14	1.53%	[0.2]	mg/L
Cu 324.752†	60292.6	929.65	1.54%	[0.4]	mg/L
Fe 238.863†	34152.9	496.59	1.45%	[2]	mg/L
Mg 279.077†	13051.8	210.32	1.61%	[2]	mg/L
Mn 257.610†	127228.6	1998.99	1.57%	[0.2]	mg/L
Mo 202.031†	1074.1	18.13	1.69%	[0.1]	mg/L
Ni 232.003†	3015.6	41.38	1.37%	[0.4]	mg/L
Pb 220.353†	346.3	4.17	1.20%	[0.1]	mg/L
Sb 206.836†	761.1	11.84	1.56%	[0.4]	mg/L
Se 196.026†	394.5	13.58	3.44%	[0.4]	mg/L
Si 251.611†	191.0	7.16	3.75%	[0.4]	mg/L
Sn 189.927†	1729.8	28.04	1.62%	[0.4]	mg/L
Tl 190.801†	570.1	7.21	1.26%	[0.4]	mg/L
V 292.402†	19340.5	371.74	1.92%	[0.2]	mg/L
Zn 213.857†	34196.0	554.47	1.62%	[0.6]	mg/L
Ti 334.940†	142585.9	1969.79	1.38%	[0.2]	mg/L
B 249.772†	438.5	6.07	1.38%	[0.4]	mg/L
Na 589.592†	45280.6	114.92	0.25%	[10]	mg/L
K 766.490†	8693.1	35.35	0.41%	[10]	mg/L
Li 670.784†	8978.7	63.53	0.71%	[0.3]	mg/L
Sr 407.771†	84232.4	181.84	0.22%	[0.2]	mg/L

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 7:43:28 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 4 **Autosampler Location: 14**
Sample ID: STD3 14J27638 **Date Collected: 11/3/2014 7:58:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD3 14J27638

Analyte	Back Pressure	Flow
All	185.0 kPa	0.55 L/min

Mean Data: STD3 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2596437.8	35851.97	1.38%	99.17	mg/L
Y 360.073 R	60009.9	689.59	1.15%	10.01	mg/L
Ag 328.068†	158236.1	19.36	0.01%	[1]	mg/L
Al 308.215†	3662.9	72.48	1.98%	[10]	mg/L
As 188.979†	1738.2	20.10	1.16%	[2]	mg/L
Ba 233.527†	39723.7	10.46	0.03%	[0.5]	mg/L
Be 313.107†	321392.1	603.78	0.19%	[0.2]	mg/L
Ca 315.887†	3153729.9	13462.68	0.43%	[50]	mg/L
Cd 214.440†	32756.9	123.09	0.38%	[0.5]	mg/L
Co 228.616†	31117.2	333.77	1.07%	[1]	mg/L
Cr 205.560†	23929.3	272.14	1.14%	[1]	mg/L
Cu 324.752†	299326.1	347.98	0.12%	[2]	mg/L
Fe 238.863†	166296.2	462.50	0.28%	[10]	mg/L
Mg 279.077†	63826.8	289.78	0.45%	[10]	mg/L
Mn 257.610†	614315.8	1781.73	0.29%	[1]	mg/L
Mo 202.031†	5374.4	60.16	1.12%	[0.5]	mg/L
Ni 232.003†	14913.0	135.25	0.91%	[2]	mg/L
Pb 220.353†	1729.8	13.75	0.79%	[0.5]	mg/L
Sb 206.836†	3811.2	37.63	0.99%	[2]	mg/L
Se 196.026†	2020.2	9.22	0.46%	[2]	mg/L
Si 251.611†	1006.6	23.28	2.31%	[2]	mg/L
Sn 189.927†	8656.7	116.36	1.34%	[2]	mg/L
Tl 190.801†	2797.3	27.36	0.98%	[2]	mg/L
V 292.402†	94906.0	263.01	0.28%	[1]	mg/L
Zn 213.857†	170180.8	502.49	0.30%	[3]	mg/L
Ti 334.940†	691821.5	1621.60	0.23%	[1]	mg/L
B 249.772†	2286.9	42.03	1.84%	[2]	mg/L
Na 589.592†	226537.8	1005.94	0.44%	[50]	mg/L
K 766.490†	45496.5	275.36	0.61%	[50]	mg/L
Li 670.784†	45865.4	224.15	0.49%	[1.5]	mg/L
Sr 407.771†	428005.7	1492.16	0.35%	[1]	mg/L

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 7:43:28 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 5 **Autosampler Location: 15**
Sample ID: STD4 14J27638 **Date Collected: 11/3/2014 8:03:50 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD4 14J27638

Analyte	Back Pressure	Flow
All	186.0 kPa	0.55 L/min

Mean Data: STD4 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2507504.4	25207.54	1.01%	95.77	mg/L
Y 360.073 R	59727.0	938.19	1.57%	9.965	mg/L
Ag 328.068†	418346.3	7058.70	1.69%	[2.5]	mg/L
Al 308.215†	9279.9	103.43	1.11%	[25]	mg/L
As 188.979†	4440.4	22.39	0.50%	[5]	mg/L
Ba 233.527†	101047.9	1788.87	1.77%	[1.25]	mg/L
Be 313.107†	814053.4	1756.25	0.22%	[0.5]	mg/L
Ca 315.887†	8039578.1	8635.93	0.11%	[125]	mg/L
Cd 214.440†	83469.4	1498.15	1.79%	[1.25]	mg/L
Co 228.616†	74844.5	1374.12	1.84%	[2.5]	mg/L
Cr 205.560†	57909.1	821.65	1.42%	[2.5]	mg/L
Cu 324.752†	799747.5	14615.64	1.83%	[5]	mg/L
Fe 238.863†	434645.6	7348.12	1.69%	[25]	mg/L
Mg 279.077†	163769.8	3050.58	1.86%	[25]	mg/L
Mn 257.610†	1537523.0	1549.62	0.10%	[2.5]	mg/L
Mo 202.031†	13668.5	65.74	0.48%	[1.25]	mg/L
Ni 232.003†	36680.2	591.11	1.61%	[5]	mg/L
Pb 220.353†	4329.6	21.78	0.50%	[1.25]	mg/L
Sb 206.836†	9736.5	37.37	0.38%	[5]	mg/L
Se 196.026†	5126.4	27.11	0.53%	[5]	mg/L
Si 251.611†	2540.6	25.66	1.01%	[5]	mg/L
Sn 189.927†	22007.5	110.41	0.50%	[5]	mg/L
Tl 190.801†	6913.8	38.93	0.56%	[5]	mg/L
V 292.402†	246171.8	4475.44	1.82%	[2.5]	mg/L
Zn 213.857†	450758.6	7459.37	1.65%	[7.5]	mg/L
Ti 334.940†	1745802.8	1234.81	0.07%	[2.5]	mg/L
B 249.772†	5821.8	71.41	1.23%	[5]	mg/L
Na 589.592†	556909.4	2400.46	0.43%	[125]	mg/L
K 766.490†	117664.0	358.49	0.30%	[125]	mg/L
Li 670.784†	116204.5	211.11	0.18%	[3.75]	mg/L
Sr 407.771†	1054503.6	1554.30	0.15%	[2.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	166100	0.00000	0.999820	
Al 308.215	4	Lin Thru 0	0.0	370.5	0.00000	0.999987	
As 188.979	4	Lin Thru 0	0.0	885.3	0.00000	0.999968	
Ba 233.527	4	Lin Thru 0	0.0	80670	0.00000	0.999977	
Be 313.107	4	Lin Thru 0	0.0	1625000	0.00000	0.999990	
Ca 315.887	4	Lin Thru 0	0.0	64130	0.00000	0.999972	
Cd 214.440	4	Lin Thru 0	0.0	66610	0.00000	0.999976	
Co 228.616	4	Lin Thru 0	0.0	30110	0.00000	0.999905	
Cr 205.560	4	Lin Thru 0	0.0	23270	0.00000	0.999934	
Cu 324.752	4	Lin Thru 0	0.0	158500	0.00000	0.999744	
Fe 238.863	4	Lin Thru 0	0.0	17280	0.00000	0.999886	
Mg 279.077	4	Lin Thru 0	0.0	6528	0.00000	0.999961	

Mn 257.610	4	Lin Thru 0	0.0	615000	0.00000	0.999997
Mo 202.031	4	Lin Thru 0	0.0	10910	0.00000	0.999982
Ni 232.003	4	Lin Thru 0	0.0	7354	0.00000	0.999982
Pb 220.353	4	Lin Thru 0	0.0	3463	0.00000	0.999998
Sb 206.836	4	Lin Thru 0	0.0	1941	0.00000	0.999972
Se 196.026	4	Lin Thru 0	0.0	1023	0.00000	0.999982
Si 251.611	4	Lin Thru 0	0.0	507.3	0.00000	0.999982
Sn 189.927	4	Lin Thru 0	0.0	4391	0.00000	0.999983
Tl 190.801	4	Lin Thru 0	0.0	1385	0.00000	0.999990
V 292.402	4	Lin Thru 0	0.0	97970	0.00000	0.999921
Zn 213.857	4	Lin Thru 0	0.0	59620	0.00000	0.999805
Ti 334.940	4	Lin Thru 0	0.0	697500	0.00000	0.999994
B 249.772	4	Lin Thru 0	0.0	1161	0.00000	0.999972
Na 589.592	4	Lin Thru 0	0.0	4466	0.00000	0.999983
K 766.490	4	Lin Thru 0	0.0	936.6	0.00000	0.999919
Li 670.784	4	Lin Thru 0	0.0	30930	0.00000	0.999987
Sr 407.771	4	Lin Thru 0	0.0	422600	0.00000	0.999987

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Analysis Begun

Start Time: 11/3/2014 8:27:23 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/3/2014 8:27:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICV 14J27639

Analyte	Back Pressure	Flow
All	189.0 kPa	0.55 L/min

Mean Data: ICV 14J27639

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2690962.4	102.8	mg/L	0.79				0.77%
Y 360.073 R	62438.4	10.42	mg/L	0.153				1.47%
Ag 328.068†	15585.8	0.09593	mg/L	0.001034	0.09593	mg/L	0.001034	1.08%
QC value within limits for Ag 328.068 Recovery = 95.93%								
Al 308.215†	3595.8	9.688	mg/L	0.0578	9.688	mg/L	0.0578	0.60%
QC value within limits for Al 308.215 Recovery = 96.88%								
As 188.979†	840.6	0.9478	mg/L	0.00625	0.9478	mg/L	0.00625	0.66%
QC value within limits for As 188.979 Recovery = 94.78%								
Ba 233.527†	80282.2	0.9947	mg/L	0.01350	0.9947	mg/L	0.01350	1.36%
QC value within limits for Ba 233.527 Recovery = 99.47%								
Be 313.107†	1607802.9	0.9893	mg/L	0.00251	0.9893	mg/L	0.00251	0.25%
QC value within limits for Be 313.107 Recovery = 98.93%								
Ca 315.887†	602361.2	9.399	mg/L	0.0248	9.399	mg/L	0.0248	0.26%
QC value less than the lower limit for Ca 315.887 Recovery = 93.99%								
Cd 214.440†	65282.1	0.9794	mg/L	0.01254	0.9794	mg/L	0.01254	1.28%
QC value within limits for Cd 214.440 Recovery = 97.94%								
Co 228.616†	29858.3	0.9917	mg/L	0.01142	0.9917	mg/L	0.01142	1.15%
QC value within limits for Co 228.616 Recovery = 99.17%								
Cr 205.560†	22543.4	0.9684	mg/L	0.01090	0.9684	mg/L	0.01090	1.13%
QC value within limits for Cr 205.560 Recovery = 96.84%								
Cu 324.752†	152538.2	0.9628	mg/L	0.01099	0.9628	mg/L	0.01099	1.14%
QC value within limits for Cu 324.752 Recovery = 96.28%								
Fe 238.863†	172104.2	9.959	mg/L	0.1356	9.959	mg/L	0.1356	1.36%
QC value within limits for Fe 238.863 Recovery = 99.59%								
Mg 279.077†	64184.6	9.826	mg/L	0.1028	9.826	mg/L	0.1028	1.05%
QC value within limits for Mg 279.077 Recovery = 98.26%								
Mn 257.610†	610267.5	0.9918	mg/L	0.00216	0.9918	mg/L	0.00216	0.22%
QC value within limits for Mn 257.610 Recovery = 99.18%								
Mo 202.031†	11132.7	1.021	mg/L	0.0120	1.021	mg/L	0.0120	1.17%
QC value within limits for Mo 202.031 Recovery = 102.12%								
Ni 232.003†	7682.6	1.046	mg/L	0.0121	1.046	mg/L	0.0121	1.16%
QC value within limits for Ni 232.003 Recovery = 104.57%								
Pb 220.353†	3488.9	1.007	mg/L	0.0119	1.007	mg/L	0.0119	1.18%
QC value within limits for Pb 220.353 Recovery = 100.74%								
Sb 206.836†	1866.1	0.9641	mg/L	0.00894	0.9641	mg/L	0.00894	0.93%
QC value within limits for Sb 206.836 Recovery = 96.41%								
Se 196.026†	959.7	0.9422	mg/L	0.00597	0.9422	mg/L	0.00597	0.63%
QC value less than the lower limit for Se 196.026 Recovery = 94.22%								
Si 251.611†	492.0	0.9702	mg/L	0.01201	0.9702	mg/L	0.01201	1.24%
QC value within limits for Si 251.611 Recovery = 97.02%								
Sn 189.927†	4271.9	0.9742	mg/L	0.01277	0.9742	mg/L	0.01277	1.31%
QC value within limits for Sn 189.927 Recovery = 97.42%								

```
Tl 190.801†             1377.6      0.9927 mg/L       0.00782      0.9927 mg/L       0.00782   0.79%
   QC value within limits for Tl 190.801  Recovery = 99.27%
V 292.402†             95872.2      0.9778 mg/L       0.01261      0.9778 mg/L       0.01261   1.29%
   QC value within limits for V 292.402  Recovery = 97.78%
Zn 213.857†            55897.3      0.9360 mg/L       0.01144      0.9360 mg/L       0.01144   1.22%
   QC value less than the lower limit for Zn 213.857  Recovery = 93.60%
Ti 334.940†           686118.4      0.9834 mg/L       0.00203      0.9834 mg/L       0.00203   0.21%
   QC value within limits for Ti 334.940  Recovery = 98.34%
B 249.772†              1119.3      0.9425 mg/L       0.00611      0.9425 mg/L       0.00611   0.65%
   QC value less than the lower limit for B 249.772  Recovery = 94.25%
Na 589.592†            45493.2       10.18 mg/L         0.042       10.18 mg/L         0.042   0.42%
   QC value within limits for Na 589.592  Recovery = 101.83%
K 766.490†              8648.3       9.233 mg/L        0.0753       9.233 mg/L        0.0753   0.82%
   QC value less than the lower limit for K 766.490  Recovery = 92.33%
Li 670.784†            30108.6      0.9735 mg/L       0.00148      0.9735 mg/L       0.00148   0.15%
   QC value within limits for Li 670.784  Recovery = 97.35%
Sr 407.771†           171083.9      0.4046 mg/L       0.00081      0.4046 mg/L       0.00081   0.20%
   QC value within limits for Sr 407.771  Recovery = 101.16%
QC Failed.  Stop the analysis.
```

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 7:43:28 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:
Analysis canceled by a QC failure action: 'Stop'.

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Analysis Begun

Start Time: 11/3/2014 8:33:39 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/3/2014 8:33:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICV 14J27639

Analyte	Back Pressure	Flow
All	189.0 kPa	0.55 L/min

Mean Data: ICV 14J27639

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2697512.5	103.0	mg/L	2.70				2.62%
Y 360.073 R	61951.5	10.34	mg/L	0.012				0.12%
Ag 328.068†	15724.6	0.09677	mg/L	0.000933	0.09677	mg/L	0.000933	0.96%
QC value within limits for Ag 328.068 Recovery = 96.77%								
Al 308.215†	3595.2	9.687	mg/L	0.2958	9.687	mg/L	0.2958	3.05%
QC value within limits for Al 308.215 Recovery = 96.87%								
As 188.979†	839.5	0.9465	mg/L	0.03170	0.9465	mg/L	0.03170	3.35%
QC value within limits for As 188.979 Recovery = 94.65%								
Ba 233.527†	80043.9	0.9918	mg/L	0.00185	0.9918	mg/L	0.00185	0.19%
QC value within limits for Ba 233.527 Recovery = 99.18%								
Be 313.107†	1604886.4	0.9875	mg/L	0.00079	0.9875	mg/L	0.00079	0.08%
QC value within limits for Be 313.107 Recovery = 98.75%								
Ca 315.887†	600440.2	9.369	mg/L	0.0114	9.369	mg/L	0.0114	0.12%
QC value less than the lower limit for Ca 315.887 Recovery = 93.69%								
Cd 214.440†	65286.0	0.9795	mg/L	0.00268	0.9795	mg/L	0.00268	0.27%
QC value within limits for Cd 214.440 Recovery = 97.95%								
Co 228.616†	29806.6	0.9900	mg/L	0.00525	0.9900	mg/L	0.00525	0.53%
QC value within limits for Co 228.616 Recovery = 99.00%								
Cr 205.560†	22556.9	0.9690	mg/L	0.00387	0.9690	mg/L	0.00387	0.40%
QC value within limits for Cr 205.560 Recovery = 96.90%								
Cu 324.752†	152960.4	0.9654	mg/L	0.00461	0.9654	mg/L	0.00461	0.48%
QC value within limits for Cu 324.752 Recovery = 96.54%								
Fe 238.863†	171935.3	9.949	mg/L	0.0031	9.949	mg/L	0.0031	0.03%
QC value within limits for Fe 238.863 Recovery = 99.49%								
Mg 279.077†	64195.1	9.828	mg/L	0.0020	9.828	mg/L	0.0020	0.02%
QC value within limits for Mg 279.077 Recovery = 98.28%								
Mn 257.610†	608161.5	0.9884	mg/L	0.00107	0.9884	mg/L	0.00107	0.11%
QC value within limits for Mn 257.610 Recovery = 98.84%								
Mo 202.031†	11067.3	1.015	mg/L	0.0269	1.015	mg/L	0.0269	2.65%
QC value within limits for Mo 202.031 Recovery = 101.52%								
Ni 232.003†	7646.8	1.041	mg/L	0.0228	1.041	mg/L	0.0228	2.19%
QC value within limits for Ni 232.003 Recovery = 104.09%								
Pb 220.353†	3471.5	1.002	mg/L	0.0301	1.002	mg/L	0.0301	3.01%
QC value within limits for Pb 220.353 Recovery = 100.24%								
Sb 206.836†	1845.6	0.9536	mg/L	0.02660	0.9536	mg/L	0.02660	2.79%

```
   QC value within limits for Sb 206.836  Recovery = 95.36%
Se 196.026†              955.2      0.9379 mg/L       0.03573      0.9379 mg/L       0.03573   3.81%
   QC value less than the lower limit for Se 196.026  Recovery = 93.79%
Si 251.611†              492.0      0.9702 mg/L       0.02971      0.9702 mg/L       0.02971   3.06%
   QC value within limits for Si 251.611  Recovery = 97.02%
Sn 189.927†             4238.8      0.9667 mg/L       0.02397      0.9667 mg/L       0.02397   2.48%
   QC value within limits for Sn 189.927  Recovery = 96.67%
Tl 190.801†             1363.1      0.9822 mg/L       0.02268      0.9822 mg/L       0.02268   2.31%
   QC value within limits for Tl 190.801  Recovery = 98.22%
V 292.402†             95899.8      0.9781 mg/L       0.00425      0.9781 mg/L       0.00425   0.43%
   QC value within limits for V 292.402  Recovery = 97.81%
Zn 213.857†            55947.5      0.9368 mg/L       0.00295      0.9368 mg/L       0.00295   0.31%
   QC value less than the lower limit for Zn 213.857  Recovery = 93.68%
Ti 334.940†           682465.8      0.9781 mg/L       0.00244      0.9781 mg/L       0.00244   0.25%
   QC value within limits for Ti 334.940  Recovery = 97.81%
B 249.772†              1128.7      0.9506 mg/L       0.03095      0.9506 mg/L       0.03095   3.26%
   QC value within limits for B 249.772  Recovery = 95.06%
Na 589.592†            45501.7       10.18 mg/L         0.016       10.18 mg/L         0.016   0.16%
   QC value within limits for Na 589.592  Recovery = 101.85%
K 766.490†              8617.1       9.200 mg/L        0.0378       9.200 mg/L        0.0378   0.41%
   QC value less than the lower limit for K 766.490  Recovery = 92.00%
Li 670.784†            30053.3      0.9717 mg/L       0.00210      0.9717 mg/L       0.00210   0.22%
   QC value within limits for Li 670.784  Recovery = 97.17%
Sr 407.771†           170554.6      0.4034 mg/L       0.00021      0.4034 mg/L       0.00021   0.05%
   QC value within limits for Sr 407.771  Recovery = 100.85%
QC Failed.  Stop the analysis.
```

==========

Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 7:43:28 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:
Analysis canceled by a QC failure action: 'Stop'.

==========

Analysis Begun

Start Time: 11/3/2014 8:47:53 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/3/2014 8:47:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICV 14J27639

Analyte	Back Pressure	Flow
All	190.0 kPa	0.55 L/min

Mean Data: ICV 14J27639

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2704042.8	103.3	mg/L	0.98				0.94%
Y 360.073 R	63872.9	10.66	mg/L	0.221				2.08%
Ag 328.068†	15564.2	0.09576	mg/L	0.001079	0.09576	mg/L	0.001079	1.13%
QC value within limits for Ag 328.068 Recovery = 95.76%								
Al 308.215†	3614.5	9.739	mg/L	0.1225	9.739	mg/L	0.1225	1.26%
QC value within limits for Al 308.215 Recovery = 97.39%								
As 188.979†	832.4	0.9385	mg/L	0.00719	0.9385	mg/L	0.00719	0.77%
QC value less than the lower limit for As 188.979 Recovery = 93.85%								
Ba 233.527†	78454.0	0.9721	mg/L	0.00603	0.9721	mg/L	0.00603	0.62%
QC value within limits for Ba 233.527 Recovery = 97.21%								
Be 313.107†	1607140.9	0.9889	mg/L	0.00418	0.9889	mg/L	0.00418	0.42%
QC value within limits for Be 313.107 Recovery = 98.89%								
Ca 315.887†	605888.4	9.454	mg/L	0.1318	9.454	mg/L	0.1318	1.39%
QC value within limits for Ca 315.887 Recovery = 94.54%								
Cd 214.440†	63722.9	0.9560	mg/L	0.00815	0.9560	mg/L	0.00815	0.85%
QC value within limits for Cd 214.440 Recovery = 95.60%								
Co 228.616†	29133.4	0.9677	mg/L	0.00615	0.9677	mg/L	0.00615	0.64%
QC value within limits for Co 228.616 Recovery = 96.77%								
Cr 205.560†	22018.5	0.9458	mg/L	0.00818	0.9458	mg/L	0.00818	0.86%
QC value within limits for Cr 205.560 Recovery = 94.58%								
Cu 324.752†	150242.5	0.9483	mg/L	0.00457	0.9483	mg/L	0.00457	0.48%
QC value within limits for Cu 324.752 Recovery = 94.83%								
Fe 238.863†	168307.0	9.739	mg/L	0.0674	9.739	mg/L	0.0674	0.69%
QC value within limits for Fe 238.863 Recovery = 97.39%								
Mg 279.077†	62899.7	9.630	mg/L	0.0714	9.630	mg/L	0.0714	0.74%
QC value within limits for Mg 279.077 Recovery = 96.30%								
Mn 257.610†	609513.2	0.9906	mg/L	0.00452	0.9906	mg/L	0.00452	0.46%
QC value within limits for Mn 257.610 Recovery = 99.06%								
Mo 202.031†	11030.1	1.012	mg/L	0.0083	1.012	mg/L	0.0083	0.82%
QC value within limits for Mo 202.031 Recovery = 101.18%								
Ni 232.003†	7633.0	1.039	mg/L	0.0071	1.039	mg/L	0.0071	0.68%
QC value within limits for Ni 232.003 Recovery = 103.90%								
Pb 220.353†	3463.1	1.0000	mg/L	0.00519	1.0000	mg/L	0.00519	0.52%
QC value within limits for Pb 220.353 Recovery = 100.00%								
Sb 206.836†	1845.4	0.9534	mg/L	0.01081	0.9534	mg/L	0.01081	1.13%

```
   QC value within limits for Sb 206.836  Recovery = 95.34%
Se 196.026†              948.1      0.9308 mg/L       0.00782      0.9308 mg/L       0.00782   0.84%
   QC value less than the lower limit for Se 196.026  Recovery = 93.08%
Si 251.611†              492.7      0.9717 mg/L       0.02176      0.9717 mg/L       0.02176   2.24%
   QC value within limits for Si 251.611  Recovery = 97.17%
Sn 189.927†             4222.0      0.9628 mg/L       0.00680      0.9628 mg/L       0.00680   0.71%
   QC value within limits for Sn 189.927  Recovery = 96.28%
Tl 190.801†             1365.7      0.9841 mg/L       0.00900      0.9841 mg/L       0.00900   0.91%
   QC value within limits for Tl 190.801  Recovery = 98.41%
V 292.402†             94290.2      0.9617 mg/L       0.00558      0.9617 mg/L       0.00558   0.58%
   QC value within limits for V 292.402  Recovery = 96.17%
Zn 213.857†            56842.5      0.9519 mg/L       0.04603      0.9519 mg/L       0.04603   4.84%
   QC value within limits for Zn 213.857  Recovery = 95.19%
Ti 334.940†           684405.0      0.9809 mg/L       0.00403      0.9809 mg/L       0.00403   0.41%
   QC value within limits for Ti 334.940  Recovery = 98.09%
B 249.772†              1128.4      0.9507 mg/L       0.01097      0.9507 mg/L       0.01097   1.15%
   QC value within limits for B 249.772  Recovery = 95.07%
Na 589.592†            45173.3       10.11 mg/L         0.028       10.11 mg/L         0.028   0.27%
   QC value within limits for Na 589.592  Recovery = 101.11%
K 766.490†              8587.8       9.169 mg/L        0.0230       9.169 mg/L        0.0230   0.25%
   QC value less than the lower limit for K 766.490  Recovery = 91.69%
Li 670.784†            30035.6      0.9711 mg/L       0.00652      0.9711 mg/L       0.00652   0.67%
   QC value within limits for Li 670.784  Recovery = 97.11%
Sr 407.771†           171388.5      0.4054 mg/L       0.00102      0.4054 mg/L       0.00102   0.25%
   QC value within limits for Sr 407.771  Recovery = 101.34%
QC Failed.  Stop the analysis.
```

==========

Method Loaded

Method Name: IT11K03N **Method Last Saved: 11/3/2014 7:43:28 AM**

IEC File: 091614ICP11_IEC.iec **MSF File:**

Method Description:

Analysis canceled by a QC failure action: 'Stop'.

==========

Analysis Begun

Start Time: 11/3/2014 8:52:40 AM **Plasma On Time: 11/3/2014 7:20:43 AM**

Logged In Analyst: ICP11 **Technique: ICP Continuous**

Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif

Batch ID:

Results Data Set: 110314ICP11

Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 2 **Autosampler Location: 1**

Sample ID: ICVLL 14J27641 **Date Collected: 11/3/2014 8:52:42 AM**

Analyst: **Data Type: Original**

Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Wash Time:

User canceled analysis.

==========

Analysis Begun

Start Time: 11/3/2014 8:53:28 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/3/2014 8:53:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

==========

Analysis Begun

Start Time: 11/3/2014 8:53:40 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 2 **Autosampler Location: 1**
Sample ID: ICVLL 14J27641 **Date Collected: 11/3/2014 8:53:40 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICVLL 14J27641

Analyte	Back Pressure	Flow
All	189.0 kPa	0.55 L/min

Mean Data: ICVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2724725.6	104.1	mg/L	1.44				1.39%
Y 360.073 R	64539.9	10.77	mg/L	0.136				1.26%
Ag 328.068†	1915.0	0.01155	mg/L	0.000830	0.01155	mg/L	0.000830	7.18%
QC value within limits for Ag 328.068 Recovery = 115.50%								
Al 308.215†	41.5	0.1118	mg/L	0.01872	0.1118	mg/L	0.01872	16.75%
QC value within limits for Al 308.215 Recovery = 111.76%								
As 188.979†	12.3	0.0138	mg/L	0.00252	0.0138	mg/L	0.00252	18.25%
QC value within limits for As 188.979 Recovery = 69.09%								
Ba 233.527†	421.4	0.0052	mg/L	0.00015	0.0052	mg/L	0.00015	2.86%
QC value within limits for Ba 233.527 Recovery = 104.36%								
Be 313.107†	3181.1	0.00196	mg/L	0.000108	0.00196	mg/L	0.000108	5.51%
QC value within limits for Be 313.107 Recovery = 97.86%								
Ca 315.887†	31295.5	0.4881	mg/L	0.01453	0.4881	mg/L	0.01453	2.98%
QC value within limits for Ca 315.887 Recovery = 97.61%								
Cd 214.440†	300.4	0.0045	mg/L	0.00039	0.0045	mg/L	0.00039	8.61%

```
   QC value within limits for Cd 214.440  Recovery = 90.05%
Co 228.616†              312.7      0.0104 mg/L       0.00046      0.0104 mg/L       0.00046   4.38%
   QC value within limits for Co 228.616  Recovery = 103.84%
Cr 205.560†              243.0      0.0104 mg/L       0.00035      0.0104 mg/L       0.00035   3.39%
   QC value within limits for Cr 205.560  Recovery = 104.34%
Cu 324.752†             3456.6      0.0218 mg/L       0.00096      0.0218 mg/L       0.00096   4.40%
   QC value within limits for Cu 324.752  Recovery = 109.04%
Fe 238.863†             1691.1      0.0979 mg/L       0.00222      0.0979 mg/L       0.00222   2.26%
   QC value within limits for Fe 238.863  Recovery = 97.85%
Mg 279.077†              661.8      0.1013 mg/L       0.00577      0.1013 mg/L       0.00577   5.69%
   QC value within limits for Mg 279.077  Recovery = 101.30%
Mn 257.610†             5958.1      0.0097 mg/L       0.00042      0.0097 mg/L       0.00042   4.37%
   QC value within limits for Mn 257.610  Recovery = 96.83%
Mo 202.031†               44.8     0.00411 mg/L      0.000582     0.00411 mg/L      0.000582  14.16%
   QC value within limits for Mo 202.031  Recovery = 82.25%
Ni 232.003†              142.5      0.0194 mg/L       0.00319      0.0194 mg/L       0.00319  16.45%
   QC value within limits for Ni 232.003  Recovery = 96.94%
Pb 220.353†                5.6     0.00163 mg/L      0.002826     0.00163 mg/L      0.002826 173.19%
   QC value less than the lower limit for Pb 220.353  Recovery = 32.64%
Sb 206.836†               32.0      0.0165 mg/L       0.00183      0.0165 mg/L       0.00183  11.07%
   QC value within limits for Sb 206.836  Recovery = 82.64%
Se 196.026†               11.3      0.0111 mg/L       0.00262      0.0111 mg/L       0.00262  23.56%
   QC value within limits for Se 196.026  Recovery = 55.52%
Si 251.611†               82.6      0.1627 mg/L       0.01064      0.1627 mg/L       0.01064   6.54%
   QC value within limits for Si 251.611  Recovery = 81.37%
Sn 189.927†               74.1      0.0169 mg/L       0.00056      0.0169 mg/L       0.00056   3.30%
   QC value within limits for Sn 189.927  Recovery = 84.50%
Tl 190.801†               26.9      0.0194 mg/L       0.00231      0.0194 mg/L       0.00231  11.93%
   QC value within limits for Tl 190.801  Recovery = 96.87%
V 292.402†               928.1      0.0095 mg/L       0.00058      0.0095 mg/L       0.00058   6.17%
   QC value within limits for V 292.402  Recovery = 94.65%
Zn 213.857†             2668.7      0.0448 mg/L       0.00403      0.0448 mg/L       0.00403   9.00%
   QC value within limits for Zn 213.857  Recovery = 149.19%
Ti 334.940†             7055.9      0.0101 mg/L       0.00036      0.0101 mg/L       0.00036   3.59%
   QC value within limits for Ti 334.940  Recovery = 101.15%
B 249.772†               227.4      0.1956 mg/L       0.00078      0.1956 mg/L       0.00078   0.40%
   QC value within limits for B 249.772  Recovery = 97.81%
Na 589.592†             2481.1      0.5555 mg/L       0.00360      0.5555 mg/L       0.00360   0.65%
   QC value within limits for Na 589.592  Recovery = 111.09%
K 766.490†               448.5      0.4788 mg/L       0.09943      0.4788 mg/L       0.09943  20.77%
   QC value within limits for K 766.490  Recovery = 95.76%
Li 670.784†              473.9     0.01532 mg/L      0.000769     0.01532 mg/L      0.000769   5.02%
   QC value within limits for Li 670.784  Recovery = 102.14%
Sr 407.771†             4402.6     0.01041 mg/L      0.000087     0.01041 mg/L      0.000087   0.83%
   QC value within limits for Sr 407.771  Recovery = 104.09%
QC Failed.  Retry.
```

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICVLL 14J27641 **Date Collected: 11/3/2014 8:57:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICVLL 14J27641

Analyte	Back Pressure	Flow
All	190.0 kPa	0.55 L/min

Mean Data: ICVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2740066.7	104.7	mg/L	1.61				1.54%
Y 360.073 R	63909.2	10.66	mg/L	0.053				0.50%
Ag 328.068†	1963.6	0.01184	mg/L	0.000285	0.01184	mg/L	0.000285	2.40%
QC value within limits for Ag 328.068 Recovery = 118.43%								
Al 308.215†	20.9	0.0561	mg/L	0.01313	0.0561	mg/L	0.01313	23.39%
QC value within limits for Al 308.215 Recovery = 56.13%								
As 188.979†	13.5	0.0153	mg/L	0.00255	0.0153	mg/L	0.00255	16.68%
QC value within limits for As 188.979 Recovery = 76.35%								

```
Ba 233.527†              409.3      0.0051 mg/L       0.00020      0.0051 mg/L       0.00020   3.89%
   QC value within limits for Ba 233.527  Recovery = 101.38%
Be 313.107†             2980.2     0.00183 mg/L      0.000062     0.00183 mg/L      0.000062   3.38%
   QC value within limits for Be 313.107  Recovery = 91.68%
Ca 315.887†            28961.4      0.4517 mg/L       0.00491      0.4517 mg/L       0.00491   1.09%
   QC value within limits for Ca 315.887  Recovery = 90.33%
Cd 214.440†              299.1      0.0045 mg/L       0.00017      0.0045 mg/L       0.00017   3.90%
   QC value within limits for Cd 214.440  Recovery = 89.66%
Co 228.616†              302.2      0.0100 mg/L       0.00013      0.0100 mg/L       0.00013   1.31%
   QC value within limits for Co 228.616  Recovery = 100.35%
Cr 205.560†              244.7      0.0105 mg/L       0.00041      0.0105 mg/L       0.00041   3.89%
   QC value within limits for Cr 205.560  Recovery = 105.08%
Cu 324.752†             3321.7      0.0210 mg/L       0.00060      0.0210 mg/L       0.00060   2.88%
   QC value within limits for Cu 324.752  Recovery = 104.79%
Fe 238.863†             1667.6      0.0965 mg/L       0.00328      0.0965 mg/L       0.00328   3.40%
   QC value within limits for Fe 238.863  Recovery = 96.49%
Mg 279.077†              627.8      0.0961 mg/L       0.00348      0.0961 mg/L       0.00348   3.62%
   QC value within limits for Mg 279.077  Recovery = 96.10%
Mn 257.610†             5914.6      0.0096 mg/L       0.00030      0.0096 mg/L       0.00030   3.17%
   QC value within limits for Mn 257.610  Recovery = 96.13%
Mo 202.031†               44.1     0.00405 mg/L      0.000379     0.00405 mg/L      0.000379   9.37%
   QC value within limits for Mo 202.031  Recovery = 80.91%
Ni 232.003†              138.0      0.0188 mg/L       0.00266      0.0188 mg/L       0.00266  14.16%
   QC value within limits for Ni 232.003  Recovery = 93.89%
Pb 220.353†               -2.5    -0.00071 mg/L      0.001144    -0.00071 mg/L      0.001144 161.19%
   QC value less than the lower limit for Pb 220.353  Recovery = -14.20%
Sb 206.836†               34.9      0.0180 mg/L       0.00473      0.0180 mg/L       0.00473  26.23%
   QC value within limits for Sb 206.836  Recovery = 90.11%
Se 196.026†                0.5      0.0005 mg/L       0.01128      0.0005 mg/L       0.01128 >999.9%
   QC value less than the lower limit for Se 196.026  Recovery = 2.73%
Si 251.611†               80.9      0.1594 mg/L       0.00605      0.1594 mg/L       0.00605   3.79%
   QC value within limits for Si 251.611  Recovery = 79.71%
Sn 189.927†               74.9      0.0171 mg/L       0.00060      0.0171 mg/L       0.00060   3.52%
   QC value within limits for Sn 189.927  Recovery = 85.37%
Tl 190.801†               25.8      0.0186 mg/L       0.00157      0.0186 mg/L       0.00157   8.44%
   QC value within limits for Tl 190.801  Recovery = 93.15%
V 292.402†               912.5      0.0093 mg/L       0.00062      0.0093 mg/L       0.00062   6.62%
   QC value within limits for V 292.402  Recovery = 93.06%
Zn 213.857†             1919.8      0.0322 mg/L       0.00073      0.0322 mg/L       0.00073   2.25%
   QC value within limits for Zn 213.857  Recovery = 107.31%
Ti 334.940†             7150.7      0.0103 mg/L       0.00024      0.0103 mg/L       0.00024   2.34%
   QC value within limits for Ti 334.940  Recovery = 102.51%
B 249.772†               220.0      0.1893 mg/L       0.00467      0.1893 mg/L       0.00467   2.47%
   QC value within limits for B 249.772  Recovery = 94.65%
Na 589.592†             2436.5      0.5455 mg/L       0.01150      0.5455 mg/L       0.01150   2.11%
   QC value within limits for Na 589.592  Recovery = 109.10%
K 766.490†               356.8      0.3810 mg/L       0.03282      0.3810 mg/L       0.03282   8.62%
   QC value within limits for K 766.490  Recovery = 76.19%
Li 670.784†              430.1     0.01391 mg/L      0.001165     0.01391 mg/L      0.001165   8.38%
   QC value within limits for Li 670.784  Recovery = 92.72%
Sr 407.771†             4130.0     0.00976 mg/L      0.000027     0.00976 mg/L      0.000027   0.28%
   QC value within limits for Sr 407.771  Recovery = 97.65%
QC Failed.  Continue with analysis.
```

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 4 **Autosampler Location: 2**
Sample ID: ICB **Date Collected: 11/3/2014 9:02:06 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	190.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2745772.0	104.9	mg/L	1.71				1.63%
Y 360.073 R	66319.5	11.06	mg/L	0.088				0.80%
Ag 328.068†	491.1	0.00296	mg/L	0.000321	0.00296	mg/L	0.000321	10.86%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-7.5	-0.0203	mg/L	0.00642	-0.0203	mg/L	0.00642	31.66%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-2.2	-0.0024	mg/L	0.00414	-0.0024	mg/L	0.00414	169.40%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	8.1	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	48.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-41.1	-0.00003	mg/L	0.000025	-0.00003	mg/L	0.000025	97.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-1614.9	-0.02518	mg/L	0.005513	-0.02518	mg/L	0.005513	21.89%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-33.4	-0.0005	mg/L	0.00023	-0.0005	mg/L	0.00023	45.30%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	4.0	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	119.08%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	13.5	0.0006	mg/L	0.00014	0.0006	mg/L	0.00014	24.05%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	374.4	0.0024	mg/L	0.00041	0.0024	mg/L	0.00041	17.28%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	-49.1	-0.0028	mg/L	0.00061	-0.0028	mg/L	0.00061	21.53%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-29.6	-0.0045	mg/L	0.00206	-0.0045	mg/L	0.00206	45.38%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	21.2	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	222.65%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-11.2	-0.00103	mg/L	0.000292	-0.00103	mg/L	0.000292	28.36%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	52.8	0.0072	mg/L	0.00080	0.0072	mg/L	0.00080	11.15%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-16.9	-0.00487	mg/L	0.001750	-0.00487	mg/L	0.001750	35.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.9	-0.0030	mg/L	0.00214	-0.0030	mg/L	0.00214	70.28%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-14.8	-0.0145	mg/L	0.00527	-0.0145	mg/L	0.00527	36.39%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-7.7	-0.0152	mg/L	0.00480	-0.0152	mg/L	0.00480	31.69%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-11.7	-0.0027	mg/L	0.00169	-0.0027	mg/L	0.00169	63.79%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	-2.8	-0.0020	mg/L	0.00346	-0.0020	mg/L	0.00346	173.22%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-23.5	-0.0002	mg/L	0.00070	-0.0002	mg/L	0.00070	291.29%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	253.5	0.0043	mg/L	0.00022	0.0043	mg/L	0.00022	5.19%
QC value within limits for Zn 213.857 Recovery = Not calculated								

```
Ti 334.940†              204.8      0.0003 mg/L       0.00012      0.0003 mg/L       0.00012  41.49%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                -0.4     -0.0004 mg/L       0.00128     -0.0004 mg/L       0.00128 351.06%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†              256.0      0.0573 mg/L       0.01445      0.0573 mg/L       0.01445  25.21%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†               -59.9     -0.0640 mg/L       0.02556     -0.0640 mg/L       0.02556  39.95%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†              -15.0    -0.00049 mg/L      0.000791    -0.00049 mg/L      0.000791 163.01%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†               26.6     0.00006 mg/L      0.000022     0.00006 mg/L      0.000022  34.53%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
```

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Method Loaded

Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**

IEC File: 091614ICP11_IEC.iec **MSF File:**

Method Description:

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Sequence No.: 5 **Autosampler Location: 18**

Sample ID: ICSA **Date Collected: 11/3/2014 9:07:06 AM**

Analyst: 388 **Data Type: Original**

Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Wash Time: 90 **Auto Dilution Factor: 1**

User canceled analysis.

==========

Analysis Begun

Start Time: 11/3/2014 9:19:15 AM
Logged In Analyst: ICP11
Spectrometer: Optima 8300 , S/N 078S1402113
Plasma On Time: 11/3/2014 7:20:43 AM
Technique: ICP Continuous
Autosampler: Cetac

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 1
Sample ID: ICV 14J27639
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 16
Date Collected: 11/3/2014 9:19:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

User canceled analysis.

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Analysis Begun

Start Time: 11/3/2014 9:19:28 AM
Logged In Analyst: ICP11
Spectrometer: Optima 8300 , S/N 078S1402113
Plasma On Time: 11/3/2014 7:20:43 AM
Technique: ICP Continuous
Autosampler: Cetac

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 1
Sample ID: CALBLK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 11
Date Collected: 11/3/2014 9:19:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CALBLK

Analyte	Back Pressure	Flow
All	191.0 kPa	0.55 L/min

Mean Data: CALBLK

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2734645.3	20897.40	0.76%	100.0	mg/L
Y 360.073 R	65372.6	246.88	0.38%	10.00	mg/L
Ag 328.068†	-1893.6	43.75	2.31%	[0.00]	mg/L
Al 308.215†	102.2	0.77	0.75%	[0.00]	mg/L
As 188.979†	-24.9	9.25	37.16%	[0.00]	mg/L
Ba 233.527†	-46.1	2.47	5.36%	[0.00]	mg/L
Be 313.107†	598.1	15.08	2.52%	[0.00]	mg/L
Ca 315.887†	-28464.4	367.98	1.29%	[0.00]	mg/L
Cd 214.440†	707.6	6.73	0.95%	[0.00]	mg/L
Co 228.616†	-254.7	13.35	5.24%	[0.00]	mg/L
Cr 205.560†	-58.4	12.02	20.59%	[0.00]	mg/L
Cu 324.752†	3252.4	47.47	1.46%	[0.00]	mg/L
Fe 238.863†	298.6	8.36	2.80%	[0.00]	mg/L
Mg 279.077†	23.5	9.14	38.91%	[0.00]	mg/L
Mn 257.610†	1370.3	25.87	1.89%	[0.00]	mg/L
Mo 202.031†	65.3	5.24	8.03%	[0.00]	mg/L
Ni 232.003†	-1001.6	16.88	1.69%	[0.00]	mg/L
Pb 220.353†	50.3	6.37	12.65%	[0.00]	mg/L
Sb 206.836†	74.7	5.58	7.47%	[0.00]	mg/L
Se 196.026†	84.4	5.35	6.33%	[0.00]	mg/L
Si 251.611†	82.6	4.91	5.94%	[0.00]	mg/L
Sn 189.927†	44.0	3.40	7.72%	[0.00]	mg/L
Tl 190.801†	-32.5	2.98	9.20%	[0.00]	mg/L
V 292.402†	74.9	27.34	36.51%	[0.00]	mg/L
Zn 213.857†	471.2	13.41	2.85%	[0.00]	mg/L
Ti 334.940†	400.4	1.33	0.33%	[0.00]	mg/L
B 249.772†	5.4	2.74	50.44%	[0.00]	mg/L
Na 589.592†	630.2	105.70	16.77%	[0.00]	mg/L
K 766.490†	622.7	50.84	8.16%	[0.00]	mg/L
Li 670.784†	352.1	71.22	20.23%	[0.00]	mg/L
Sr 407.771†	-160.8	15.74	9.79%	[0.00]	mg/L

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 2 **Autosampler Location: 12**
Sample ID: STD1 14J27638 **Date Collected: 11/3/2014 9:24:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD1 14J27638

Analyte	Back Pressure	Flow
All	192.0 kPa	0.55 L/min

Mean Data: STD1 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2763769.0	39247.53	1.42%	101.1	mg/L
Y 360.073 R	66586.0	1027.72	1.54%	10.19	mg/L
Ag 328.068†	1616.7	38.17	2.36%	[0.01]	mg/L
Al 308.215†	35.8	3.14	8.75%	[0.1]	mg/L
As 188.979†	19.8	3.80	19.23%	[0.02]	mg/L
Ba 233.527†	439.5	8.59	1.95%	[0.005]	mg/L
Be 313.107†	3317.5	128.20	3.86%	[0.002]	mg/L
Ca 315.887†	33723.8	423.56	1.26%	[0.5]	mg/L
Cd 214.440†	331.7	24.60	7.42%	[0.005]	mg/L
Co 228.616†	332.5	7.74	2.33%	[0.01]	mg/L
Cr 205.560†	237.4	7.78	3.28%	[0.01]	mg/L
Cu 324.752†	3179.3	68.80	2.16%	[0.02]	mg/L
Fe 238.863†	1866.1	27.45	1.47%	[0.1]	mg/L
Mg 279.077†	665.1	17.46	2.63%	[0.1]	mg/L
Mn 257.610†	6528.2	214.17	3.28%	[0.01]	mg/L
Mo 202.031†	57.0	2.19	3.84%	[0.005]	mg/L
Ni 232.003†	159.0	15.69	9.86%	[0.02]	mg/L
Pb 220.353†	15.3	2.94	19.24%	[0.005]	mg/L
Sb 206.836†	40.7	3.40	8.35%	[0.02]	mg/L
Se 196.026†	13.6	0.58	4.25%	[0.02]	mg/L
Si 251.611†	13.4	6.98	52.21%	[0.02]	mg/L
Sn 189.927†	95.4	10.36	10.87%	[0.02]	mg/L
Tl 190.801†	28.5	6.83	23.95%	[0.02]	mg/L
V 292.402†	954.3	46.12	4.83%	[0.01]	mg/L
Zn 213.857†	1903.9	50.06	2.63%	[0.03]	mg/L
Ti 334.940†	7322.3	59.83	0.82%	[0.01]	mg/L
B 249.772†	23.9	0.36	1.49%	[0.02]	mg/L
Na 589.592†	2375.1	60.86	2.56%	[0.5]	mg/L
K 766.490†	450.0	38.35	8.52%	[0.5]	mg/L
Li 670.784†	445.9	39.93	8.95%	[0.015]	mg/L
Sr 407.771†	4596.3	20.70	0.45%	[0.01]	mg/L

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 3 **Autosampler Location: 13**
Sample ID: STD2 14J27638 **Date Collected: 11/3/2014 9:29:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD2 14J27638

Analyte	Back Pressure	Flow
All	191.0 kPa	0.55 L/min

Mean Data: STD2 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2765205.4	16764.58	0.61%	101.1	mg/L
Y 360.073 R	64565.2	988.56	1.53%	9.876	mg/L
Ag 328.068†	33197.4	244.93	0.74%	[0.2]	mg/L
Al 308.215†	760.6	10.20	1.34%	[2]	mg/L
As 188.979†	354.0	4.08	1.15%	[0.4]	mg/L
Ba 233.527†	8598.1	84.30	0.98%	[0.1]	mg/L
Be 313.107†	66521.9	457.08	0.69%	[0.04]	mg/L
Ca 315.887†	633959.4	507.83	0.08%	[10]	mg/L
Cd 214.440†	7034.0	71.65	1.02%	[0.1]	mg/L
Co 228.616†	6408.1	52.98	0.83%	[0.2]	mg/L
Cr 205.560†	4839.2	40.74	0.84%	[0.2]	mg/L
Cu 324.752†	62800.5	405.42	0.65%	[0.4]	mg/L
Fe 238.863†	34961.1	204.48	0.58%	[2]	mg/L
Mg 279.077†	13246.1	121.72	0.92%	[2]	mg/L
Mn 257.610†	131812.7	1098.02	0.83%	[0.2]	mg/L
Mo 202.031†	1102.2	1.81	0.16%	[0.1]	mg/L
Ni 232.003†	3080.6	16.10	0.52%	[0.4]	mg/L
Pb 220.353†	367.1	3.48	0.95%	[0.1]	mg/L
Sb 206.836†	781.9	4.54	0.58%	[0.4]	mg/L
Se 196.026†	420.5	3.61	0.86%	[0.4]	mg/L
Si 251.611†	208.5	7.11	3.41%	[0.4]	mg/L
Sn 189.927†	1775.4	9.20	0.52%	[0.4]	mg/L
Tl 190.801†	585.5	7.98	1.36%	[0.4]	mg/L
V 292.402†	19895.4	114.73	0.58%	[0.2]	mg/L
Zn 213.857†	34882.7	253.99	0.73%	[0.6]	mg/L
Ti 334.940†	147090.6	1111.83	0.76%	[0.2]	mg/L
B 249.772†	471.5	5.22	1.11%	[0.4]	mg/L
Na 589.592†	48943.5	166.11	0.34%	[10]	mg/L
K 766.490†	9340.7	25.71	0.28%	[10]	mg/L
Li 670.784†	9854.4	35.77	0.36%	[0.3]	mg/L
Sr 407.771†	93986.1	108.38	0.12%	[0.2]	mg/L

Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 4 **Autosampler Location: 14**
Sample ID: STD3 14J27638 **Date Collected: 11/3/2014 9:34:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD3 14J27638

Analyte	Back Pressure	Flow
All	191.0 kPa	0.55 L/min

Mean Data: STD3 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2716795.2	50305.71	1.85%	99.35	mg/L
Y 360.073 R	63631.8	242.26	0.38%	9.734	mg/L
Ag 328.068†	163507.9	337.45	0.21%	[1]	mg/L
Al 308.215†	3791.9	78.86	2.08%	[10]	mg/L
As 188.979†	1773.6	40.97	2.31%	[2]	mg/L
Ba 233.527†	42871.9	826.79	1.93%	[0.5]	mg/L
Be 313.107†	333443.3	214.31	0.06%	[0.2]	mg/L
Ca 315.887†	3276270.4	7011.59	0.21%	[50]	mg/L
Cd 214.440†	33901.4	39.58	0.12%	[0.5]	mg/L
Co 228.616†	31728.6	620.39	1.96%	[1]	mg/L
Cr 205.560†	24180.0	490.22	2.03%	[1]	mg/L
Cu 324.752†	312225.9	413.99	0.13%	[2]	mg/L
Fe 238.863†	171655.8	245.82	0.14%	[10]	mg/L
Mg 279.077†	65775.0	99.28	0.15%	[10]	mg/L
Mn 257.610†	639388.1	214.53	0.03%	[1]	mg/L
Mo 202.031†	5466.8	111.33	2.04%	[0.5]	mg/L
Ni 232.003†	15202.7	288.59	1.90%	[2]	mg/L
Pb 220.353†	1784.0	36.87	2.07%	[0.5]	mg/L
Sb 206.836†	3879.0	81.37	2.10%	[2]	mg/L
Se 196.026†	2068.4	39.65	1.92%	[2]	mg/L
Si 251.611†	1058.8	27.46	2.59%	[2]	mg/L
Sn 189.927†	8772.4	178.96	2.04%	[2]	mg/L
Tl 190.801†	2831.0	57.42	2.03%	[2]	mg/L
V 292.402†	98635.9	47.06	0.05%	[1]	mg/L
Zn 213.857†	175351.0	262.30	0.15%	[3]	mg/L
Ti 334.940†	715269.2	676.11	0.09%	[1]	mg/L
B 249.772†	2381.1	49.60	2.08%	[2]	mg/L
Na 589.592†	243450.1	376.29	0.15%	[50]	mg/L
K 766.490†	48893.0	128.56	0.26%	[50]	mg/L
Li 670.784†	50108.9	70.71	0.14%	[1.5]	mg/L
Sr 407.771†	470991.1	236.95	0.05%	[1]	mg/L

Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 5 **Autosampler Location: 15**
Sample ID: STD4 14J27638 **Date Collected: 11/3/2014 9:39:27 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD4 14J27638

Analyte	Back Pressure	Flow
All	192.0 kPa	0.55 L/min

Mean Data: STD4 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2589620.4	31624.05	1.22%	94.70	mg/L
Y 360.073 R	63037.9	788.03	1.25%	9.643	mg/L
Ag 328.068†	431614.1	7888.40	1.83%	[2.5]	mg/L
Al 308.215†	9901.5	184.63	1.86%	[25]	mg/L
As 188.979†	4619.5	72.79	1.58%	[5]	mg/L
Ba 233.527†	103549.4	2051.93	1.98%	[1.25]	mg/L
Be 313.107†	847456.2	1216.84	0.14%	[0.5]	mg/L
Ca 315.887†	8385869.9	14404.54	0.17%	[125]	mg/L
Cd 214.440†	85854.7	1790.18	2.09%	[1.25]	mg/L
Co 228.616†	76948.8	1613.84	2.10%	[2.5]	mg/L
Cr 205.560†	58803.9	1142.73	1.94%	[2.5]	mg/L
Cu 324.752†	831370.9	15742.03	1.89%	[5]	mg/L
Fe 238.863†	446870.6	8810.21	1.97%	[25]	mg/L
Mg 279.077†	168368.8	3234.24	1.92%	[25]	mg/L
Mn 257.610†	1607026.4	1100.02	0.07%	[2.5]	mg/L
Mo 202.031†	14149.5	202.31	1.43%	[1.25]	mg/L
Ni 232.003†	37686.9	764.91	2.03%	[5]	mg/L
Pb 220.353†	4512.3	55.15	1.22%	[1.25]	mg/L
Sb 206.836†	10097.3	180.01	1.78%	[5]	mg/L
Se 196.026†	5354.8	92.56	1.73%	[5]	mg/L
Si 251.611†	2708.0	59.32	2.19%	[5]	mg/L
Sn 189.927†	22699.7	341.97	1.51%	[5]	mg/L
Tl 190.801†	7112.3	98.77	1.39%	[5]	mg/L
V 292.402†	255376.9	5090.86	1.99%	[2.5]	mg/L
Zn 213.857†	463135.9	9629.88	2.08%	[7.5]	mg/L
Ti 334.940†	1810379.4	864.33	0.05%	[2.5]	mg/L
B 249.772†	6192.6	122.26	1.97%	[5]	mg/L
Na 589.592†	604040.7	2138.18	0.35%	[125]	mg/L
K 766.490†	126517.0	267.85	0.21%	[125]	mg/L
Li 670.784†	126968.1	116.45	0.09%	[3.75]	mg/L
Sr 407.771†	1173882.6	1159.55	0.10%	[2.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	171400	0.00000	0.999829	
Al 308.215	4	Lin Thru 0	0.0	393.7	0.00000	0.999888	
As 188.979	4	Lin Thru 0	0.0	918.6	0.00000	0.999900	
Ba 233.527	4	Lin Thru 0	0.0	83260	0.00000	0.999925	
Be 313.107	4	Lin Thru 0	0.0	1691000	0.00000	0.999983	
Ca 315.887	4	Lin Thru 0	0.0	66850	0.00000	0.999960	
Cd 214.440	4	Lin Thru 0	0.0	68570	0.00000	0.999988	
Co 228.616	4	Lin Thru 0	0.0	30920	0.00000	0.999941	
Cr 205.560	4	Lin Thru 0	0.0	23620	0.00000	0.999952	
Cu 324.752	4	Lin Thru 0	0.0	164800	0.00000	0.999769	
Fe 238.863	4	Lin Thru 0	0.0	17780	0.00000	0.999905	
Mg 279.077	4	Lin Thru 0	0.0	6713	0.00000	0.999967	

Mn 257.610	4	Lin Thru 0	0.0	642400	0.00000	0.999996
Mo 202.031	4	Lin Thru 0	0.0	11260	0.00000	0.999929
Ni 232.003	4	Lin Thru 0	0.0	7547	0.00000	0.999995
Pb 220.353	4	Lin Thru 0	0.0	3604	0.00000	0.999991
Sb 206.836	4	Lin Thru 0	0.0	2008	0.00000	0.999904
Se 196.026	4	Lin Thru 0	0.0	1066	0.00000	0.999928
Si 251.611	4	Lin Thru 0	0.0	539.8	0.00000	0.999966
Sn 189.927	4	Lin Thru 0	0.0	4518	0.00000	0.999931
Tl 190.801	4	Lin Thru 0	0.0	1422	0.00000	0.999996
V 292.402	4	Lin Thru 0	0.0	101700	0.00000	0.999928
Zn 213.857	4	Lin Thru 0	0.0	61280	0.00000	0.999821
Ti 334.940	4	Lin Thru 0	0.0	723000	0.00000	0.999990
B 249.772	4	Lin Thru 0	0.0	1232	0.00000	0.999905
Na 589.592	4	Lin Thru 0	0.0	4838	0.00000	0.999996
K 766.490	4	Lin Thru 0	0.0	1007	0.00000	0.999917
Li 670.784	4	Lin Thru 0	0.0	33790	0.00000	0.999987
Sr 407.771	4	Lin Thru 0	0.0	469800	0.00000	0.999999

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 6 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/3/2014 9:45:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICV 14J27639

Analyte	Back Pressure	Flow
All	192.0 kPa	0.55 L/min

Mean Data: ICV 14J27639

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2692289.5	98.45 mg/L	2.444			2.48%
Y 360.073 R	63266.9	9.678 mg/L	0.0181			0.19%
Ag 328.068†	16063.6	0.09584 mg/L	0.000986	0.09584 mg/L	0.000986	1.03%
QC value within limits for Ag 328.068 Recovery = 95.84%						
Al 308.215†	3784.0	9.594 mg/L	0.2636	9.594 mg/L	0.2636	2.75%
QC value within limits for Al 308.215 Recovery = 95.94%						
As 188.979†	901.8	0.9800 mg/L	0.01646	0.9800 mg/L	0.01646	1.68%
QC value within limits for As 188.979 Recovery = 98.00%						
Ba 233.527†	83760.2	1.006 mg/L	0.0126	1.006 mg/L	0.0126	1.25%
QC value within limits for Ba 233.527 Recovery = 100.56%						
Be 313.107†	1684911.0	0.9964 mg/L	0.00113	0.9964 mg/L	0.00113	0.11%
QC value within limits for Be 313.107 Recovery = 99.64%						
Ca 315.887†	632731.6	9.470 mg/L	0.0083	9.470 mg/L	0.0083	0.09%
QC value within limits for Ca 315.887 Recovery = 94.70%						
Cd 214.440†	68530.7	0.9988 mg/L	0.00794	0.9988 mg/L	0.00794	0.80%
QC value within limits for Cd 214.440 Recovery = 99.88%						
Co 228.616†	31150.4	1.008 mg/L	0.0075	1.008 mg/L	0.0075	0.74%
QC value within limits for Co 228.616 Recovery = 100.75%						
Cr 205.560†	23397.9	0.9905 mg/L	0.00853	0.9905 mg/L	0.00853	0.86%
QC value within limits for Cr 205.560 Recovery = 99.05%						
Cu 324.752†	160703.0	0.9753 mg/L	0.01284	0.9753 mg/L	0.01284	1.32%
QC value within limits for Cu 324.752 Recovery = 97.53%						
Fe 238.863†	180104.2	10.13 mg/L	0.079	10.13 mg/L	0.079	0.78%
QC value within limits for Fe 238.863 Recovery = 101.32%						
Mg 279.077†	67218.4	10.01 mg/L	0.094	10.01 mg/L	0.094	0.94%
QC value within limits for Mg 279.077 Recovery = 100.07%						
Mn 257.610†	640584.2	0.9967 mg/L	0.00179	0.9967 mg/L	0.00179	0.18%
QC value within limits for Mn 257.610 Recovery = 99.67%						
Mo 202.031†	11821.2	1.050 mg/L	0.0202	1.050 mg/L	0.0202	1.93%
QC value within limits for Mo 202.031 Recovery = 105.00%						
Ni 232.003†	8113.5	1.076 mg/L	0.0207	1.076 mg/L	0.0207	1.93%
QC value greater than the upper limit for Ni 232.003 Recovery = 107.61%						
Pb 220.353†	3755.8	1.042 mg/L	0.0208	1.042 mg/L	0.0208	1.99%
QC value within limits for Pb 220.353 Recovery = 104.19%						
Sb 206.836†	1990.2	0.9940 mg/L	0.01934	0.9940 mg/L	0.01934	1.95%
QC value within limits for Sb 206.836 Recovery = 99.40%						
Se 196.026†	1031.6	0.9720 mg/L	0.00789	0.9720 mg/L	0.00789	0.81%
QC value within limits for Se 196.026 Recovery = 97.20%						
Si 251.611†	532.7	0.9872 mg/L	0.02872	0.9872 mg/L	0.02872	2.91%
QC value within limits for Si 251.611 Recovery = 98.72%						
Sn 189.927†	4547.0	1.008 mg/L	0.0198	1.008 mg/L	0.0198	1.97%
QC value within limits for Sn 189.927 Recovery = 100.78%						
Tl 190.801†	1455.1	1.022 mg/L	0.0171	1.022 mg/L	0.0171	1.68%
QC value within limits for Tl 190.801 Recovery = 102.17%						
V 292.402†	100653.9	0.9894 mg/L	0.01085	0.9894 mg/L	0.01085	1.10%
QC value within limits for V 292.402 Recovery = 98.94%						
Zn 213.857†	58445.3	0.9522 mg/L	0.00939	0.9522 mg/L	0.00939	0.99%
QC value within limits for Zn 213.857 Recovery = 95.22%						

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Ti 334.940†           715004.4      0.9886 mg/L       0.00318      0.9886 mg/L       0.00318   0.32%
   QC value within limits for Ti 334.940  Recovery = 98.86%
B 249.772†              1222.3      0.9706 mg/L       0.02567      0.9706 mg/L       0.02567   2.65%
   QC value within limits for B 249.772  Recovery = 97.06%
Na 589.592†            50151.3       10.36 mg/L         0.063       10.36 mg/L         0.063   0.60%
   QC value within limits for Na 589.592  Recovery = 103.63%
K 766.490†              9824.5       9.756 mg/L        0.1084       9.756 mg/L        0.1084   1.11%
   QC value within limits for K 766.490  Recovery = 97.56%
Li 670.784†            33051.2      0.9780 mg/L       0.00227      0.9780 mg/L       0.00227   0.23%
   QC value within limits for Li 670.784  Recovery = 97.80%
Sr 407.771†           189655.8      0.4036 mg/L       0.00086      0.4036 mg/L       0.00086   0.21%
   QC value within limits for Sr 407.771  Recovery = 100.90%
QC Failed.  Stop the analysis.
```

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:
Analysis canceled by a QC failure action: 'Stop'.

==========

Analysis Begun

Start Time: 11/3/2014 9:50:31 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICVLL 14J27641 **Date Collected: 11/3/2014 9:50:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICVLL 14J27641

Analyte	Back Pressure	Flow
All	192.0 kPa	0.55 L/min

Mean Data: ICVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2765441.2	101.1	mg/L	0.76				0.75%
Y 360.073 R	66128.2	10.12	mg/L	0.151				1.49%
Ag 328.068†	1622.8	0.00949	mg/L	0.000918	0.00949	mg/L	0.000918	9.67%
QC value within limits for Ag 328.068 Recovery = 94.88%								
Al 308.215†	25.5	0.0645	mg/L	0.02257	0.0645	mg/L	0.02257	34.99%
QC value within limits for Al 308.215 Recovery = 64.50%								
As 188.979†	27.0	0.0294	mg/L	0.00283	0.0294	mg/L	0.00283	9.65%
QC value within limits for As 188.979 Recovery = 146.88%								
Ba 233.527†	449.1	0.0054	mg/L	0.00002	0.0054	mg/L	0.00002	0.45%
QC value within limits for Ba 233.527 Recovery = 107.79%								
Be 313.107†	3400.0	0.00201	mg/L	0.000046	0.00201	mg/L	0.000046	2.31%
QC value within limits for Be 313.107 Recovery = 100.53%								
Ca 315.887†	31054.9	0.4646	mg/L	0.00201	0.4646	mg/L	0.00201	0.43%
QC value within limits for Ca 315.887 Recovery = 92.92%								
Cd 214.440†	348.9	0.0051	mg/L	0.00017	0.0051	mg/L	0.00017	3.27%
QC value within limits for Cd 214.440 Recovery = 101.60%								
Co 228.616†	326.4	0.0106	mg/L	0.00026	0.0106	mg/L	0.00026	2.46%
QC value within limits for Co 228.616 Recovery = 105.55%								
Cr 205.560†	238.2	0.0101	mg/L	0.00015	0.0101	mg/L	0.00015	1.54%
QC value within limits for Cr 205.560 Recovery = 100.80%								
Cu 324.752†	4026.7	0.0244	mg/L	0.00079	0.0244	mg/L	0.00079	3.22%
QC value within limits for Cu 324.752 Recovery = 122.14%								
Fe 238.863†	1833.7	0.1031	mg/L	0.00134	0.1031	mg/L	0.00134	1.30%
QC value within limits for Fe 238.863 Recovery = 103.15%								
Mg 279.077†	631.1	0.0939	mg/L	0.00303	0.0939	mg/L	0.00303	3.23%
QC value within limits for Mg 279.077 Recovery = 93.94%								
Mn 257.610†	6443.1	0.0100	mg/L	0.00017	0.0100	mg/L	0.00017	1.67%
QC value within limits for Mn 257.610 Recovery = 100.25%								
Mo 202.031†	48.1	0.00427	mg/L	0.000456	0.00427	mg/L	0.000456	10.67%
QC value within limits for Mo 202.031 Recovery = 85.47%								
Ni 232.003†	138.7	0.0184	mg/L	0.00056	0.0184	mg/L	0.00056	3.06%
QC value within limits for Ni 232.003 Recovery = 91.95%								
Pb 220.353†	15.6	0.00433	mg/L	0.000615	0.00433	mg/L	0.000615	14.21%
QC value within limits for Pb 220.353 Recovery = 86.62%								
Sb 206.836†	44.9	0.0224	mg/L	0.00281	0.0224	mg/L	0.00281	12.53%

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   QC value within limits for Sb 206.836  Recovery = 111.92%
Se 196.026†              15.8      0.0149 mg/L       0.01028      0.0149 mg/L       0.01028  69.17%
   QC value within limits for Se 196.026  Recovery = 74.27%
Si 251.611†              98.0      0.1815 mg/L       0.00416      0.1815 mg/L       0.00416   2.29%
   QC value within limits for Si 251.611  Recovery = 90.73%
Sn 189.927†              94.1      0.0208 mg/L       0.00100      0.0208 mg/L       0.00100   4.78%
   QC value within limits for Sn 189.927  Recovery = 104.22%
Tl 190.801†              32.0      0.0225 mg/L       0.00036      0.0225 mg/L       0.00036   1.60%
   QC value within limits for Tl 190.801  Recovery = 112.51%
V 292.402†              922.9      0.0091 mg/L       0.00040      0.0091 mg/L       0.00040   4.43%
   QC value within limits for V 292.402  Recovery = 90.70%
Zn 213.857†            1771.5      0.0289 mg/L       0.00061      0.0289 mg/L       0.00061   2.10%
   QC value within limits for Zn 213.857  Recovery = 96.34%
Ti 334.940†            7379.4      0.0102 mg/L       0.00027      0.0102 mg/L       0.00027   2.68%
   QC value within limits for Ti 334.940  Recovery = 102.06%
B 249.772†              253.9      0.2059 mg/L       0.00506      0.2059 mg/L       0.00506   2.46%
   QC value within limits for B 249.772  Recovery = 102.96%
Na 589.592†            2796.4      0.5780 mg/L       0.01096      0.5780 mg/L       0.01096   1.90%
   QC value within limits for Na 589.592  Recovery = 115.59%
K 766.490†              643.0      0.6385 mg/L       0.02976      0.6385 mg/L       0.02976   4.66%
   QC value within limits for K 766.490  Recovery = 127.70%
Li 670.784†             635.9     0.01882 mg/L      0.001636     0.01882 mg/L      0.001636   8.69%
   QC value within limits for Li 670.784  Recovery = 125.45%
Sr 407.771†            4571.6     0.00972 mg/L      0.000012     0.00972 mg/L      0.000012   0.12%
   QC value within limits for Sr 407.771  Recovery = 97.25%
All analyte(s) passed QC.
```

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 8 **Autosampler Location: 2**
Sample ID: ICB **Date Collected: 11/3/2014 9:55:32 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	192.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2767761.7	101.2	mg/L	1.48				1.46%
Y 360.073 R	66176.6	10.12	mg/L	0.085				0.84%
Ag 328.068†	133.7	0.00078	mg/L	0.000512	0.00078	mg/L	0.000512	65.61%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-4.7	-0.0119	mg/L	0.01495	-0.0119	mg/L	0.01495	125.68%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.5	0.0016	mg/L	0.00136	0.0016	mg/L	0.00136	83.78%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	13.4	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.74%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	27.9	0.00002	mg/L	0.000036	0.00002	mg/L	0.000036	215.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-611.3	-0.00914	mg/L	0.004719	-0.00914	mg/L	0.004719	51.61%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-5.3	-0.0001	mg/L	0.00014	-0.0001	mg/L	0.00014	183.46%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	5.5	0.0002	mg/L	0.00050	0.0002	mg/L	0.00050	276.87%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	-1.4	-0.0001	mg/L	0.00033	-0.0001	mg/L	0.00033	544.47%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	470.4	0.0029	mg/L	0.00049	0.0029	mg/L	0.00049	17.14%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	-93.7	-0.0053	mg/L	0.00006	-0.0053	mg/L	0.00006	1.17%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-88.3	-0.0131	mg/L	0.00104	-0.0131	mg/L	0.00104	7.92%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	50.0	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	57.44%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-3.7	-0.00033	mg/L	0.000214	-0.00033	mg/L	0.000214	65.04%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	-2.2	-0.0003	mg/L	0.00168	-0.0003	mg/L	0.00168	564.56%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-1.2	-0.00034	mg/L	0.002075	-0.00034	mg/L	0.002075	619.14%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.5	0.0012	mg/L	0.00198	0.0012	mg/L	0.00198	160.86%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	6.6	0.0062	mg/L	0.00982	0.0062	mg/L	0.00982	159.33%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	3.6	0.0067	mg/L	0.00345	0.0067	mg/L	0.00345	51.62%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	7.2	0.0016	mg/L	0.00047	0.0016	mg/L	0.00047	29.30%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	-0.4	-0.0003	mg/L	0.00259	-0.0003	mg/L	0.00259	913.52%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	10.1	0.0001	mg/L	0.00096	0.0001	mg/L	0.00096	958.65%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	-10.0	-0.0002	mg/L	0.00015	-0.0002	mg/L	0.00015	91.33%
QC value within limits for Zn 213.857 Recovery = Not calculated								

```
Ti 334.940†                74.0      0.0001 mg/L       0.00001      0.0001 mg/L       0.00001  12.20%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                 20.2      0.0164 mg/L       0.00072      0.0164 mg/L       0.00072   4.36%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†               174.1      0.0360 mg/L       0.00793      0.0360 mg/L       0.00793  22.04%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†                 77.2      0.0767 mg/L       0.09927      0.0767 mg/L       0.09927 129.51%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†                34.0     0.00101 mg/L      0.000746     0.00101 mg/L      0.000746  74.06%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†               -32.9    -0.00007 mg/L      0.000027    -0.00007 mg/L      0.000027  38.48%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
```

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 9 **Autosampler Location: 18**
Sample ID: ICSA **Date Collected: 11/3/2014 10:00:32 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	192.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2510992.5	91.82	mg/L	1.395				1.52%
Y 360.073 R	60967.8	9.326	mg/L	0.1289				1.38%
Ag 328.068†	-1210.6	-0.00652	mg/L	0.001134	-0.00652	mg/L	0.001134	17.40%
Al 308.215†	196515.7	499.1	mg/L	8.11	499.1	mg/L	8.11	1.62%
As 188.979†	54.0	0.0022	mg/L	0.00753	0.0022	mg/L	0.00753	349.43%
Ba 233.527†	297.3	-0.0007	mg/L	0.00016	-0.0007	mg/L	0.00016	20.78%
Be 313.107†	-625.9	-0.00063	mg/L	0.000023	-0.00063	mg/L	0.000023	3.60%
Ca 315.887†	31050236.7	464.5	mg/L	3.81	464.5	mg/L	3.81	0.82%
Cd 214.440†	271.4	-0.0016	mg/L	0.00029	-0.0016	mg/L	0.00029	17.69%
Co 228.616†	-40.3	-0.0008	mg/L	0.00069	-0.0008	mg/L	0.00069	88.74%
Cr 205.560†	149.3	-0.0019	mg/L	0.00074	-0.0019	mg/L	0.00074	39.79%
Cu 324.752†	-1657.8	-0.0137	mg/L	0.00038	-0.0137	mg/L	0.00038	2.80%
Fe 238.863†	3349184.8	188.4	mg/L	1.13	188.4	mg/L	1.13	0.60%
Mg 279.077†	3607111.4	537.2	mg/L	3.52	537.2	mg/L	3.52	0.66%
Mn 257.610†	2513.5	-0.0190	mg/L	0.00017	-0.0190	mg/L	0.00017	0.90%
Mo 202.031†	-39.7	0.00187	mg/L	0.001186	0.00187	mg/L	0.001186	63.54%
Ni 232.003†	-261.3	-0.0042	mg/L	0.00147	-0.0042	mg/L	0.00147	34.77%
Pb 220.353†	-139.7	-0.00365	mg/L	0.001237	-0.00365	mg/L	0.001237	33.88%
Sb 206.836†	25.9	0.0073	mg/L	0.00806	0.0073	mg/L	0.00806	109.86%
Se 196.026†	-52.5	0.0407	mg/L	0.00197	0.0407	mg/L	0.00197	4.84%
Si 251.611†	22.9	-0.0174	mg/L	0.02129	-0.0174	mg/L	0.02129	122.34%
Sn 189.927†	-41.0	0.0125	mg/L	0.00339	0.0125	mg/L	0.00339	27.09%
Tl 190.801†	10.2	-0.0006	mg/L	0.00298	-0.0006	mg/L	0.00298	462.17%
V 292.402†	1402.5	-0.0026	mg/L	0.00030	-0.0026	mg/L	0.00030	11.46%
Zn 213.857†	677.4	-0.0171	mg/L	0.00015	-0.0171	mg/L	0.00015	0.88%
Ti 334.940†	-3362.1	-0.0213	mg/L	0.00028	-0.0213	mg/L	0.00028	1.30%
B 249.772†	843.8	0.2724	mg/L	0.02035	0.2724	mg/L	0.02035	7.47%
Na 589.592†	543.2	-0.0263	mg/L	0.01243	-0.0263	mg/L	0.01243	47.32%
K 766.490†	221.6	0.1813	mg/L	0.03637	0.1813	mg/L	0.03637	20.07%
Li 670.784†	81.8	-0.00195	mg/L	0.001436	-0.00195	mg/L	0.001436	73.74%
Sr 407.771†	3476.6	0.00010	mg/L	0.000084	0.00010	mg/L	0.000084	86.54%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 10 **Autosampler Location: 19**
Sample ID: ICSAB **Date Collected: 11/3/2014 10:06:43 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	192.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2477239.0	90.59	mg/L	1.251				1.38%
Y 360.073 R	59124.4	9.044	mg/L	0.0700				0.77%
Ag 328.068†	174991.9	1.023	mg/L	0.0026	1.023	mg/L	0.0026	0.25%
Al 308.215†	196065.9	497.9	mg/L	6.56	497.9	mg/L	6.56	1.32%
As 188.979†	492.1	0.4787	mg/L	0.02501	0.4787	mg/L	0.02501	5.22%
Ba 233.527†	42001.6	0.5000	mg/L	0.00770	0.5000	mg/L	0.00770	1.54%
Be 313.107†	835355.7	0.4937	mg/L	0.00193	0.4937	mg/L	0.00193	0.39%
Ca 315.887†	31381509.9	469.5	mg/L	7.95	469.5	mg/L	7.95	1.69%
Cd 214.440†	63456.2	0.9197	mg/L	0.00700	0.9197	mg/L	0.00700	0.76%
Co 228.616†	14495.7	0.4694	mg/L	0.00762	0.4694	mg/L	0.00762	1.62%
Cr 205.560†	11642.6	0.4848	mg/L	0.00757	0.4848	mg/L	0.00757	1.56%
Cu 324.752†	78737.7	0.4741	mg/L	0.00031	0.4741	mg/L	0.00031	0.07%
Fe 238.863†	3362280.5	189.1	mg/L	0.65	189.1	mg/L	0.65	0.34%
Mg 279.077†	3608737.8	537.5	mg/L	3.56	537.5	mg/L	3.56	0.66%
Mn 257.610†	306637.1	0.4544	mg/L	0.00141	0.4544	mg/L	0.00141	0.31%
Mo 202.031†	5338.3	0.4794	mg/L	0.00727	0.4794	mg/L	0.00727	1.52%
Ni 232.003†	7414.3	1.013	mg/L	0.0125	1.013	mg/L	0.0125	1.23%
Pb 220.353†	3229.3	0.9310	mg/L	0.01639	0.9310	mg/L	0.01639	1.76%
Sb 206.836†	1018.9	0.5032	mg/L	0.01270	0.5032	mg/L	0.01270	2.52%
Se 196.026†	454.7	0.5166	mg/L	0.00469	0.5166	mg/L	0.00469	0.91%
Si 251.611†	574.2	1.004	mg/L	0.0124	1.004	mg/L	0.0124	1.24%
Sn 189.927†	2016.6	0.4681	mg/L	0.00588	0.4681	mg/L	0.00588	1.26%
Tl 190.801†	659.5	0.4551	mg/L	0.00299	0.4551	mg/L	0.00299	0.66%
V 292.402†	49635.9	0.4718	mg/L	0.00193	0.4718	mg/L	0.00193	0.41%
Zn 213.857†	58510.0	0.9266	mg/L	0.00306	0.9266	mg/L	0.00306	0.33%
Ti 334.940†	349479.1	0.4667	mg/L	0.00128	0.4667	mg/L	0.00128	0.27%
B 249.772†	2035.8	1.239	mg/L	0.0433	1.239	mg/L	0.0433	3.50%
Na 589.592†	468.0	-0.0424	mg/L	0.00652	-0.0424	mg/L	0.00652	15.36%
K 766.490†	210.7	0.1704	mg/L	0.01324	0.1704	mg/L	0.01324	7.77%
Li 670.784†	87.7	-0.00178	mg/L	0.000992	-0.00178	mg/L	0.000992	55.61%
Sr 407.771†	3512.8	0.00010	mg/L	0.000169	0.00010	mg/L	0.000169	175.10%

==========

Analysis Begun

Start Time: 11/3/2014 10:27:06 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/3/2014 10:27:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 11/3/2014 10:27:20 AM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 46 **Autosampler Location: 132**
Sample ID: LCS WG752044 **Date Collected: 11/3/2014 10:27:20 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time:

Nebulizer Parameters: LCS WG752044

Analyte	Back Pressure	Flow
All	191.0 kPa	0.55 L/min

Mean Data: LCS WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2762393.5	101.0	mg/L	3.19				3.16%
Y 360.073 R	64272.4	9.832	mg/L	0.1318				1.34%
Ag 328.068†	78401.1	0.4624	mg/L	0.01065	46.24	mg/kg	1.065	2.30%
Al 308.215†	18224.7	46.27	mg/L	1.316	4627	mg/kg	131.58	2.84%
As 188.979†	2160.2	2.344	mg/L	0.0492	234.4	mg/kg	4.92	2.10%
Ba 233.527†	199417.8	2.393	mg/L	0.0638	239.3	mg/kg	6.38	2.67%
Be 313.107†	1603371.5	0.9482	mg/L	0.00106	94.82	mg/kg	0.106	0.11%
Ca 315.887†	4319012.7	64.62	mg/L	0.316	6462	mg/kg	31.61	0.49%
Cd 214.440†	129827.0	1.887	mg/L	0.0426	188.7	mg/kg	4.26	2.26%
Co 228.616†	56054.5	1.813	mg/L	0.0445	181.3	mg/kg	4.45	2.45%
Cr 205.560†	30416.2	1.286	mg/L	0.0350	128.6	mg/kg	3.50	2.72%
Cu 324.752†	198313.8	1.207	mg/L	0.0283	120.7	mg/kg	2.83	2.35%
Fe 238.863†	1561110.7	87.82	mg/L	0.428	8782	mg/kg	42.83	0.49%
Mg 279.077†	159637.7	23.73	mg/L	0.533	2373	mg/kg	53.30	2.25%
Mn 257.610†	2042995.1	3.178	mg/L	0.0082	317.8	mg/kg	0.82	0.26%
Mo 202.031†	10638.6	0.9479	mg/L	0.02534	94.79	mg/kg	2.534	2.67%
Ni 232.003†	9326.7	1.243	mg/L	0.0294	124.3	mg/kg	2.94	2.36%
Pb 220.353†	3607.8	0.9941	mg/L	0.02690	99.41	mg/kg	2.690	2.71%
Sb 206.836†	3165.4	1.581	mg/L	0.0485	158.1	mg/kg	4.85	3.07%
Se 196.026†	1122.7	1.092	mg/L	0.0354	109.2	mg/kg	3.54	3.24%
Si 251.611†	3363.2	6.245	mg/L	0.1699	624.5	mg/kg	16.99	2.72%

Sn 189.927†	4548.2	1.019	mg/L	0.0286	101.9	mg/kg	2.86	2.81%
Tl 190.801†	1308.4	0.9197	mg/L	0.02644	91.97	mg/kg	2.644	2.88%
V 292.402†	110470.9	1.080	mg/L	0.0246	108.0	mg/kg	2.46	2.28%
Zn 213.857†	99662.7	1.614	mg/L	0.0382	161.4	mg/kg	3.82	2.37%
Ti 334.940†	555988.8	0.7684	mg/L	0.01822	76.84	mg/kg	1.822	2.37%
B 249.772†	1577.7	1.091	mg/L	0.0357	109.1	mg/kg	3.57	3.27%
Na 589.592†	25169.2	5.182	mg/L	0.0364	518.2	mg/kg	3.64	0.70%
K 766.490†	20122.9	19.98	mg/L	0.052	1998	mg/kg	5.20	0.26%
Li 670.784†	2475.5	0.07294	mg/L	0.001971	7.294	mg/kg	0.1971	2.70%
Sr 407.771†	559985.2	1.191	mg/L	0.0042	119.1	mg/kg	0.42	0.35%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 47 **Autosampler Location: 133**
Sample ID: LCSD WG752044 **Date Collected: 11/3/2014 10:32:25 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: LCSD WG752044

Analyte	Back Pressure	Flow
All	192.0 kPa	0.55 L/min

Mean Data: LCSD WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2763670.2	101.1	mg/L	0.94				0.93%
Y 360.073 R	64914.4	9.930	mg/L	0.2568				2.59%
Ag 328.068†	76772.0	0.4526	mg/L	0.00562	45.26	mg/kg	0.562	1.24%
Al 308.215†	16220.4	41.17	mg/L	0.354	4117	mg/kg	35.37	0.86%
As 188.979†	2144.0	2.327	mg/L	0.0111	232.7	mg/kg	1.11	0.48%
Ba 233.527†	195885.0	2.351	mg/L	0.0368	235.1	mg/kg	3.68	1.57%
Be 313.107†	1580032.9	0.9344	mg/L	0.00012	93.44	mg/kg	0.012	0.01%
Ca 315.887†	4404742.6	65.90	mg/L	0.117	6590	mg/kg	11.72	0.18%
Cd 214.440†	129251.1	1.879	mg/L	0.0303	187.9	mg/kg	3.03	1.61%
Co 228.616†	55981.2	1.810	mg/L	0.0293	181.0	mg/kg	2.93	1.62%
Cr 205.560†	28231.3	1.194	mg/L	0.0163	119.4	mg/kg	1.63	1.37%
Cu 324.752†	199814.4	1.216	mg/L	0.0162	121.6	mg/kg	1.62	1.33%
Fe 238.863†	1416615.2	79.69	mg/L	0.186	7969	mg/kg	18.59	0.23%
Mg 279.077†	152372.0	22.65	mg/L	0.365	2265	mg/kg	36.49	1.61%
Mn 257.610†	1998236.2	3.109	mg/L	0.0010	310.9	mg/kg	0.10	0.03%
Mo 202.031†	10860.4	0.9673	mg/L	0.00857	96.73	mg/kg	0.857	0.89%
Ni 232.003†	9468.4	1.261	mg/L	0.0085	126.1	mg/kg	0.85	0.68%
Pb 220.353†	3637.1	1.003	mg/L	0.0077	100.3	mg/kg	0.77	0.77%
Sb 206.836†	3213.8	1.605	mg/L	0.0127	160.5	mg/kg	1.27	0.79%
Se 196.026†	1105.4	1.072	mg/L	0.0170	107.2	mg/kg	1.70	1.59%
Si 251.611†	3467.1	6.436	mg/L	0.0680	643.6	mg/kg	6.80	1.06%
Sn 189.927†	4587.6	1.027	mg/L	0.0079	102.7	mg/kg	0.79	0.77%
Tl 190.801†	1300.2	0.9137	mg/L	0.00914	91.37	mg/kg	0.914	1.00%
V 292.402†	111040.6	1.086	mg/L	0.0172	108.6	mg/kg	1.72	1.58%
Zn 213.857†	99617.0	1.615	mg/L	0.0219	161.5	mg/kg	2.19	1.36%
Ti 334.940†	575322.6	0.7952	mg/L	0.00027	79.52	mg/kg	0.027	0.03%
B 249.772†	1527.2	1.068	mg/L	0.0142	106.8	mg/kg	1.42	1.33%
Na 589.592†	25057.3	5.160	mg/L	0.0080	516.0	mg/kg	0.80	0.15%
K 766.490†	18622.1	18.49	mg/L	0.095	1849	mg/kg	9.47	0.51%
Li 670.784†	2188.2	0.06445	mg/L	0.001565	6.445	mg/kg	0.1565	2.43%
Sr 407.771†	559396.1	1.190	mg/L	0.0051	119.0	mg/kg	0.51	0.43%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 57 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/3/2014 11:35:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	3078743.4	112.6 mg/L	1.75			1.56%
Y 360.073 R	73804.4	11.29 mg/L	0.185			1.64%
Ag 328.068†	169641.4	0.9919 mg/L	0.01513	0.9919 mg/L	0.01513	1.52%
QC value within limits for Ag 328.068 Recovery = 99.19%						
Al 308.215†	3907.8	9.900 mg/L	0.1037	9.900 mg/L	0.1037	1.05%
QC value within limits for Al 308.215 Recovery = 99.00%						
As 188.979†	1834.9	1.994 mg/L	0.0361	1.994 mg/L	0.0361	1.81%
QC value within limits for As 188.979 Recovery = 99.72%						
Ba 233.527†	42402.3	0.5087 mg/L	0.00767	0.5087 mg/L	0.00767	1.51%
QC value within limits for Ba 233.527 Recovery = 101.75%						
Be 313.107†	339208.6	0.2006 mg/L	0.00045	0.2006 mg/L	0.00045	0.22%
QC value within limits for Be 313.107 Recovery = 100.29%						
Ca 315.887†	3357026.7	50.22 mg/L	0.164	50.22 mg/L	0.164	0.33%
QC value within limits for Ca 315.887 Recovery = 100.44%						
Cd 214.440†	35744.3	0.5206 mg/L	0.00926	0.5206 mg/L	0.00926	1.78%
QC value within limits for Cd 214.440 Recovery = 104.11%						
Co 228.616†	31953.6	1.033 mg/L	0.0178	1.033 mg/L	0.0178	1.73%
QC value within limits for Co 228.616 Recovery = 103.34%						
Cr 205.560†	24704.5	1.046 mg/L	0.0202	1.046 mg/L	0.0202	1.93%
QC value within limits for Cr 205.560 Recovery = 104.56%						
Cu 324.752†	327548.0	1.987 mg/L	0.0306	1.987 mg/L	0.0306	1.54%
QC value within limits for Cu 324.752 Recovery = 99.35%						
Fe 238.863†	180882.1	10.17 mg/L	0.170	10.17 mg/L	0.170	1.67%
QC value within limits for Fe 238.863 Recovery = 101.75%						
Mg 279.077†	68714.7	10.23 mg/L	0.171	10.23 mg/L	0.171	1.67%
QC value within limits for Mg 279.077 Recovery = 102.28%						
Mn 257.610†	655822.8	1.020 mg/L	0.0017	1.020 mg/L	0.0017	0.17%
QC value within limits for Mn 257.610 Recovery = 102.04%						
Mo 202.031†	5585.9	0.4963 mg/L	0.00885	0.4963 mg/L	0.00885	1.78%
QC value within limits for Mo 202.031 Recovery = 99.26%						
Ni 232.003†	15613.8	2.070 mg/L	0.0353	2.070 mg/L	0.0353	1.70%
QC value within limits for Ni 232.003 Recovery = 103.52%						
Pb 220.353†	1817.2	0.5051 mg/L	0.00901	0.5051 mg/L	0.00901	1.78%
QC value within limits for Pb 220.353 Recovery = 101.01%						
Sb 206.836†	3967.6	1.979 mg/L	0.0326	1.979 mg/L	0.0326	1.65%
QC value within limits for Sb 206.836 Recovery = 98.94%						
Se 196.026†	2140.1	2.011 mg/L	0.0390	2.011 mg/L	0.0390	1.94%
QC value within limits for Se 196.026 Recovery = 100.56%						
Si 251.611†	1086.6	2.012 mg/L	0.0206	2.012 mg/L	0.0206	1.02%
QC value within limits for Si 251.611 Recovery = 100.60%						
Sn 189.927†	9045.2	2.004 mg/L	0.0397	2.004 mg/L	0.0397	1.98%
QC value within limits for Sn 189.927 Recovery = 100.18%						
Tl 190.801†	2857.8	2.008 mg/L	0.0400	2.008 mg/L	0.0400	1.99%
QC value within limits for Tl 190.801 Recovery = 100.38%						
V 292.402†	103060.2	1.013 mg/L	0.0161	1.013 mg/L	0.0161	1.59%
QC value within limits for V 292.402 Recovery = 101.30%						
Zn 213.857†	184049.6	3.003 mg/L	0.0494	3.003 mg/L	0.0494	1.64%
QC value within limits for Zn 213.857 Recovery = 100.10%						

Ti 334.940†	726418.9	1.005 mg/L	0.0015	1.005 mg/L	0.0015	0.15%
QC value within limits for Ti 334.940 Recovery = 100.46%						
B 249.772†	2422.4	1.945 mg/L	0.0265	1.945 mg/L	0.0265	1.36%
QC value within limits for B 249.772 Recovery = 97.24%						
Na 589.592†	245695.8	50.78 mg/L	0.164	50.78 mg/L	0.164	0.32%
QC value within limits for Na 589.592 Recovery = 101.56%						
K 766.490†	48584.6	48.24 mg/L	0.109	48.24 mg/L	0.109	0.23%
QC value within limits for K 766.490 Recovery = 96.49%						
Li 670.784†	50884.6	1.506 mg/L	0.0058	1.506 mg/L	0.0058	0.39%
QC value within limits for Li 670.784 Recovery = 100.38%						
Sr 407.771†	489390.9	1.041 mg/L	0.0023	1.041 mg/L	0.0023	0.22%
QC value within limits for Sr 407.771 Recovery = 104.10%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 8:53:24 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 58 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/3/2014 11:40:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	205.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3157139.7	115.4	mg/L	2.70				2.34%
Y 360.073 R	76091.9	11.64	mg/L	0.100				0.86%
Ag 328.068†	352.4	0.00206	mg/L	0.000240	0.00206	mg/L	0.000240	11.69%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-10.4	-0.0264	mg/L	0.00475	-0.0264	mg/L	0.00475	17.96%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	4.6	0.0050	mg/L	0.01133	0.0050	mg/L	0.01133	226.57%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	19.0	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	32.52%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-52.5	-0.00003	mg/L	0.000020	-0.00003	mg/L	0.000020	64.34%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	2676.4	0.04003	mg/L	0.009473	0.04003	mg/L	0.009473	23.67%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-82.5	-0.0012	mg/L	0.00022	-0.0012	mg/L	0.00022	18.67%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	35.6	0.0012	mg/L	0.00033	0.0012	mg/L	0.00033	28.66%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	13.9	0.0006	mg/L	0.00018	0.0006	mg/L	0.00018	29.99%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	233.6	0.0014	mg/L	0.00043	0.0014	mg/L	0.00043	30.23%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	-79.6	-0.0045	mg/L	0.00071	-0.0045	mg/L	0.00071	15.94%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-76.9	-0.0115	mg/L	0.00076	-0.0115	mg/L	0.00076	6.63%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-13.5	-0.0000	mg/L	0.00007	-0.0000	mg/L	0.00007	356.40%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-9.0	-0.00080	mg/L	0.000556	-0.00080	mg/L	0.000556	69.59%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	98.2	0.0130	mg/L	0.00303	0.0130	mg/L	0.00303	23.29%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-7.3	-0.00202	mg/L	0.000362	-0.00202	mg/L	0.000362	17.89%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-6.5	-0.0032	mg/L	0.00341	-0.0032	mg/L	0.00341	105.58%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-11.5	-0.0108	mg/L	0.00594	-0.0108	mg/L	0.00594	54.97%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-7.4	-0.0137	mg/L	0.00492	-0.0137	mg/L	0.00492	35.91%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-1.2	-0.0003	mg/L	0.00174	-0.0003	mg/L	0.00174	631.91%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	5.9	0.0041	mg/L	0.00271	0.0041	mg/L	0.00271	65.90%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-26.0	-0.0003	mg/L	0.00046	-0.0003	mg/L	0.00046	181.66%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	7.7	0.0001	mg/L	0.00036	0.0001	mg/L	0.00036	283.25%
QC value within limits for Zn 213.857 Recovery = Not calculated								

```
Ti 334.940†              123.9      0.0002 mg/L       0.00012      0.0002 mg/L       0.00012  67.65%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                24.8      0.0201 mg/L       0.00054      0.0201 mg/L       0.00054   2.69%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†              354.2      0.0732 mg/L       0.00748      0.0732 mg/L       0.00748  10.21%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†               127.2      0.1263 mg/L       0.05773      0.1263 mg/L       0.05773  45.72%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†                2.1     0.00006 mg/L      0.002186     0.00006 mg/L      0.002186 >999.9%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†              177.2     0.00038 mg/L      0.000036     0.00038 mg/L      0.000036   9.69%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 12:59:24 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 60 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/3/2014 1:16:29 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCVLL 14J27641

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	3038321.3	111.1 mg/L	1.26			1.14%
Y 360.073 R	72266.7	11.05 mg/L	0.151			1.37%
Ag 328.068†	1824.4	0.01066 mg/L	0.000477	0.01066 mg/L	0.000477	4.47%
QC value within limits for Ag 328.068 Recovery = 106.64%						
Al 308.215†	29.8	0.0756 mg/L	0.01463	0.0756 mg/L	0.01463	19.36%
QC value within limits for Al 308.215 Recovery = 75.56%						
As 188.979†	17.0	0.0185 mg/L	0.00476	0.0185 mg/L	0.00476	25.71%
QC value within limits for As 188.979 Recovery = 92.50%						
Ba 233.527†	426.8	0.0051 mg/L	0.00012	0.0051 mg/L	0.00012	2.44%
QC value within limits for Ba 233.527 Recovery = 102.44%						
Be 313.107†	3074.5	0.00182 mg/L	0.000031	0.00182 mg/L	0.000031	1.70%
QC value within limits for Be 313.107 Recovery = 90.90%						
Ca 315.887†	30853.9	0.4616 mg/L	0.00241	0.4616 mg/L	0.00241	0.52%
QC value within limits for Ca 315.887 Recovery = 92.31%						
Cd 214.440†	267.3	0.0039 mg/L	0.00023	0.0039 mg/L	0.00023	5.89%
QC value within limits for Cd 214.440 Recovery = 77.81%						
Co 228.616†	315.5	0.0102 mg/L	0.00025	0.0102 mg/L	0.00025	2.46%
QC value within limits for Co 228.616 Recovery = 102.02%						
Cr 205.560†	241.1	0.0102 mg/L	0.00014	0.0102 mg/L	0.00014	1.37%
QC value within limits for Cr 205.560 Recovery = 102.05%						
Cu 324.752†	3023.5	0.0183 mg/L	0.00067	0.0183 mg/L	0.00067	3.64%
QC value within limits for Cu 324.752 Recovery = 91.71%						
Fe 238.863†	1736.5	0.0977 mg/L	0.00321	0.0977 mg/L	0.00321	3.28%
QC value within limits for Fe 238.863 Recovery = 97.68%						
Mg 279.077†	595.1	0.0886 mg/L	0.00236	0.0886 mg/L	0.00236	2.66%
QC value within limits for Mg 279.077 Recovery = 88.57%						
Mn 257.610†	6083.9	0.0095 mg/L	0.00011	0.0095 mg/L	0.00011	1.19%
QC value within limits for Mn 257.610 Recovery = 94.66%						
Mo 202.031†	53.3	0.00473 mg/L	0.000718	0.00473 mg/L	0.000718	15.17%
QC value within limits for Mo 202.031 Recovery = 94.64%						
Ni 232.003†	206.3	0.0273 mg/L	0.00054	0.0273 mg/L	0.00054	1.98%
QC value within limits for Ni 232.003 Recovery = 136.73%						
Pb 220.353†	11.7	0.00325 mg/L	0.001776	0.00325 mg/L	0.001776	54.70%
QC value within limits for Pb 220.353 Recovery = 64.94%						
Sb 206.836†	33.7	0.0168 mg/L	0.00352	0.0168 mg/L	0.00352	20.95%
QC value within limits for Sb 206.836 Recovery = 83.93%						
Se 196.026†	13.9	0.0131 mg/L	0.00665	0.0131 mg/L	0.00665	50.84%
QC value within limits for Se 196.026 Recovery = 65.42%						
Si 251.611†	85.5	0.1583 mg/L	0.00691	0.1583 mg/L	0.00691	4.37%
QC value within limits for Si 251.611 Recovery = 79.16%						
Sn 189.927†	84.6	0.0187 mg/L	0.00186	0.0187 mg/L	0.00186	9.93%
QC value within limits for Sn 189.927 Recovery = 93.74%						
Tl 190.801†	26.4	0.0186 mg/L	0.00409	0.0186 mg/L	0.00409	22.01%
QC value within limits for Tl 190.801 Recovery = 92.90%						
V 292.402†	895.4	0.0088 mg/L	0.00029	0.0088 mg/L	0.00029	3.24%
QC value within limits for V 292.402 Recovery = 88.01%						
Zn 213.857†	1667.4	0.0272 mg/L	0.00052	0.0272 mg/L	0.00052	1.93%
QC value within limits for Zn 213.857 Recovery = 90.68%						

Ti 334.940†	7065.2	0.0098 mg/L	0.00021	0.0098 mg/L	0.00021	2.12%
QC value within limits for Ti 334.940 Recovery = 97.71%						
B 249.772†	233.5	0.1894 mg/L	0.00249	0.1894 mg/L	0.00249	1.31%
QC value within limits for B 249.772 Recovery = 94.70%						
Na 589.592†	2418.6	0.4999 mg/L	0.01322	0.4999 mg/L	0.01322	2.64%
QC value within limits for Na 589.592 Recovery = 99.97%						
K 766.490†	395.7	0.3929 mg/L	0.03934	0.3929 mg/L	0.03934	10.01%
QC value within limits for K 766.490 Recovery = 78.58%						
Li 670.784†	440.0	0.01302 mg/L	0.001512	0.01302 mg/L	0.001512	11.61%
QC value within limits for Li 670.784 Recovery = 86.81%						
Sr 407.771†	4706.0	0.01001 mg/L	0.000085	0.01001 mg/L	0.000085	0.85%
QC value within limits for Sr 407.771 Recovery = 100.11%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 12:59:24 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 78 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/3/2014 3:52:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	207.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2971309.6	108.7 mg/L	0.97			0.90%
Y 360.073 R	71612.7	10.95 mg/L	0.378			3.45%
Ag 328.068†	161957.1	0.9470 mg/L	0.00026	0.9470 mg/L	0.00026	0.03%
QC value within limits for Ag 328.068 Recovery = 94.70%						
Al 308.215†	3859.1	9.777 mg/L	0.1622	9.777 mg/L	0.1622	1.66%
QC value within limits for Al 308.215 Recovery = 97.77%						
As 188.979†	1765.4	1.919 mg/L	0.0155	1.919 mg/L	0.0155	0.81%
QC value within limits for As 188.979 Recovery = 95.94%						
Ba 233.527†	42963.5	0.5155 mg/L	0.00531	0.5155 mg/L	0.00531	1.03%
QC value within limits for Ba 233.527 Recovery = 103.10%						
Be 313.107†	329265.1	0.1947 mg/L	0.00029	0.1947 mg/L	0.00029	0.15%
QC value within limits for Be 313.107 Recovery = 97.35%						
Ca 315.887†	3278560.0	49.05 mg/L	0.046	49.05 mg/L	0.046	0.09%
QC value within limits for Ca 315.887 Recovery = 98.09%						
Cd 214.440†	33670.8	0.4904 mg/L	0.00162	0.4904 mg/L	0.00162	0.33%
QC value within limits for Cd 214.440 Recovery = 98.08%						
Co 228.616†	31786.0	1.028 mg/L	0.0102	1.028 mg/L	0.0102	0.99%
QC value within limits for Co 228.616 Recovery = 102.79%						
Cr 205.560†	23951.2	1.014 mg/L	0.0105	1.014 mg/L	0.0105	1.04%
QC value within limits for Cr 205.560 Recovery = 101.37%						
Cu 324.752†	311256.9	1.888 mg/L	0.0019	1.888 mg/L	0.0019	0.10%
QC value within limits for Cu 324.752 Recovery = 94.41%						
Fe 238.863†	169691.9	9.545 mg/L	0.0512	9.545 mg/L	0.0512	0.54%
QC value within limits for Fe 238.863 Recovery = 95.45%						
Mg 279.077†	64969.1	9.671 mg/L	0.0147	9.671 mg/L	0.0147	0.15%
QC value within limits for Mg 279.077 Recovery = 96.71%						
Mn 257.610†	637292.2	0.9916 mg/L	0.00022	0.9916 mg/L	0.00022	0.02%
QC value within limits for Mn 257.610 Recovery = 99.16%						
Mo 202.031†	5432.3	0.4826 mg/L	0.00514	0.4826 mg/L	0.00514	1.07%
QC value within limits for Mo 202.031 Recovery = 96.53%						
Ni 232.003†	15141.2	2.008 mg/L	0.0183	2.008 mg/L	0.0183	0.91%
QC value within limits for Ni 232.003 Recovery = 100.39%						
Pb 220.353†	1761.4	0.4896 mg/L	0.00405	0.4896 mg/L	0.00405	0.83%
QC value within limits for Pb 220.353 Recovery = 97.92%						
Sb 206.836†	3848.1	1.919 mg/L	0.0251	1.919 mg/L	0.0251	1.31%
QC value within limits for Sb 206.836 Recovery = 95.95%						
Se 196.026†	2058.6	1.934 mg/L	0.0196	1.934 mg/L	0.0196	1.02%
QC value within limits for Se 196.026 Recovery = 96.72%						
Si 251.611†	1067.0	1.976 mg/L	0.0337	1.976 mg/L	0.0337	1.70%
QC value within limits for Si 251.611 Recovery = 98.78%						
Sn 189.927†	8692.0	1.925 mg/L	0.0205	1.925 mg/L	0.0205	1.07%
QC value within limits for Sn 189.927 Recovery = 96.27%						
Tl 190.801†	2783.2	1.955 mg/L	0.0185	1.955 mg/L	0.0185	0.95%
QC value within limits for Tl 190.801 Recovery = 97.76%						
V 292.402†	97980.6	0.9631 mg/L	0.00084	0.9631 mg/L	0.00084	0.09%
QC value within limits for V 292.402 Recovery = 96.31%						
Zn 213.857†	172695.9	2.818 mg/L	0.0101	2.818 mg/L	0.0101	0.36%
QC value within limits for Zn 213.857 Recovery = 93.92%						

Ti 334.940†	711846.9	0.9845 mg/L	0.00024	0.9845 mg/L	0.00024	0.02%
QC value within limits for Ti 334.940 Recovery = 98.45%						
B 249.772†	2385.2	1.916 mg/L	0.0415	1.916 mg/L	0.0415	2.16%
QC value within limits for B 249.772 Recovery = 95.80%						
Na 589.592†	248346.5	51.33 mg/L	0.229	51.33 mg/L	0.229	0.45%
QC value within limits for Na 589.592 Recovery = 102.66%						
K 766.490†	48453.6	48.11 mg/L	0.065	48.11 mg/L	0.065	0.14%
QC value within limits for K 766.490 Recovery = 96.23%						
Li 670.784†	51606.8	1.527 mg/L	0.0077	1.527 mg/L	0.0077	0.51%
QC value within limits for Li 670.784 Recovery = 101.81%						
Sr 407.771†	493423.2	1.050 mg/L	0.0008	1.050 mg/L	0.0008	0.08%
QC value within limits for Sr 407.771 Recovery = 104.96%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 12:59:24 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 79 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/3/2014 3:57:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	207.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3094765.3	113.2	mg/L	1.91				1.68%
Y 360.073 R	72875.6	11.15	mg/L	0.194				1.74%
Ag 328.068†	281.1	0.00164	mg/L	0.000966	0.00164	mg/L	0.000966	58.91%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-12.8	-0.0325	mg/L	0.01640	-0.0325	mg/L	0.01640	50.42%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-1.3	-0.0014	mg/L	0.00492	-0.0014	mg/L	0.00492	351.54%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	16.7	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	11.67%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-21.3	-0.00001	mg/L	0.000016	-0.00001	mg/L	0.000016	124.03%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	2148.1	0.03213	mg/L	0.002065	0.03213	mg/L	0.002065	6.43%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-69.1	-0.0010	mg/L	0.00016	-0.0010	mg/L	0.00016	15.64%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	31.4	0.0010	mg/L	0.00031	0.0010	mg/L	0.00031	31.00%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	17.2	0.0007	mg/L	0.00020	0.0007	mg/L	0.00020	26.95%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	222.8	0.0014	mg/L	0.00070	0.0014	mg/L	0.00070	51.64%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	-41.7	-0.0023	mg/L	0.00057	-0.0023	mg/L	0.00057	24.39%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-62.4	-0.0093	mg/L	0.00166	-0.0093	mg/L	0.00166	17.90%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	23.6	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	151.86%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-3.2	-0.00028	mg/L	0.000326	-0.00028	mg/L	0.000326	115.36%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	66.7	0.0088	mg/L	0.00137	0.0088	mg/L	0.00137	15.51%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-9.8	-0.00272	mg/L	0.001544	-0.00272	mg/L	0.001544	56.82%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.8	-0.0009	mg/L	0.00091	-0.0009	mg/L	0.00091	102.90%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-11.2	-0.0105	mg/L	0.00533	-0.0105	mg/L	0.00533	50.92%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-4.0	-0.0074	mg/L	0.00596	-0.0074	mg/L	0.00596	80.31%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	0.8	0.0002	mg/L	0.00200	0.0002	mg/L	0.00200	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	3.6	0.0025	mg/L	0.00141	0.0025	mg/L	0.00141	55.48%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-14.8	-0.0001	mg/L	0.00072	-0.0001	mg/L	0.00072	492.17%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	10.4	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	63.05%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	197.8	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	36.43%
QC value within limits for Ti 334.940 Recovery = Not calculated							
B 249.772†	19.1	0.0155 mg/L	0.00425	0.0155 mg/L	0.00425	27.44%
QC value within limits for B 249.772 Recovery = Not calculated							
Na 589.592†	305.5	0.0631 mg/L	0.01911	0.0631 mg/L	0.01911	30.26%
QC value within limits for Na 589.592 Recovery = Not calculated							
K 766.490†	54.0	0.0536 mg/L	0.03904	0.0536 mg/L	0.03904	72.81%
QC value within limits for K 766.490 Recovery = Not calculated							
Li 670.784†	84.4	0.00250 mg/L	0.000761	0.00250 mg/L	0.000761	30.47%
QC value within limits for Li 670.784 Recovery = Not calculated							
Sr 407.771†	135.5	0.00029 mg/L	0.000075	0.00029 mg/L	0.000075	25.93%
QC value within limits for Sr 407.771 Recovery = Not calculated							

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 12:59:24 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 80 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/3/2014 4:02:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCVLL 14J27641

Analyte	Back Pressure	Flow
All	207.0 kPa	0.55 L/min

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	3088251.2	112.9 mg/L	3.05			2.70%
Y 360.073 R	72682.0	11.12 mg/L	0.038			0.34%
Ag 328.068†	1815.9	0.01061 mg/L	0.000250	0.01061 mg/L	0.000250	2.36%
QC value within limits for Ag 328.068 Recovery = 106.15%						
Al 308.215†	23.7	0.0600 mg/L	0.01168	0.0600 mg/L	0.01168	19.47%
QC value within limits for Al 308.215 Recovery = 60.01%						
As 188.979†	20.4	0.0222 mg/L	0.00921	0.0222 mg/L	0.00921	41.50%
QC value within limits for As 188.979 Recovery = 111.00%						
Ba 233.527†	421.2	0.0051 mg/L	0.00021	0.0051 mg/L	0.00021	4.25%
QC value within limits for Ba 233.527 Recovery = 101.07%						
Be 313.107†	3021.2	0.00179 mg/L	0.000049	0.00179 mg/L	0.000049	2.75%
QC value within limits for Be 313.107 Recovery = 89.32%						
Ca 315.887†	31619.7	0.4730 mg/L	0.00419	0.4730 mg/L	0.00419	0.89%
QC value within limits for Ca 315.887 Recovery = 94.61%						
Cd 214.440†	250.6	0.0036 mg/L	0.00029	0.0036 mg/L	0.00029	8.07%
QC value within limits for Cd 214.440 Recovery = 72.96%						
Co 228.616†	331.0	0.0107 mg/L	0.00015	0.0107 mg/L	0.00015	1.39%
QC value within limits for Co 228.616 Recovery = 107.05%						
Cr 205.560†	237.2	0.0100 mg/L	0.00015	0.0100 mg/L	0.00015	1.54%
QC value within limits for Cr 205.560 Recovery = 100.39%						
Cu 324.752†	2917.0	0.0177 mg/L	0.00071	0.0177 mg/L	0.00071	4.01%
QC value within limits for Cu 324.752 Recovery = 88.48%						
Fe 238.863†	1718.5	0.0967 mg/L	0.00244	0.0967 mg/L	0.00244	2.53%
QC value within limits for Fe 238.863 Recovery = 96.67%						
Mg 279.077†	586.3	0.0873 mg/L	0.00216	0.0873 mg/L	0.00216	2.48%
QC value within limits for Mg 279.077 Recovery = 87.26%						
Mn 257.610†	5997.4	0.0093 mg/L	0.00015	0.0093 mg/L	0.00015	1.64%
QC value within limits for Mn 257.610 Recovery = 93.31%						
Mo 202.031†	42.7	0.00380 mg/L	0.000921	0.00380 mg/L	0.000921	24.27%
QC value within limits for Mo 202.031 Recovery = 75.93%						
Ni 232.003†	213.9	0.0284 mg/L	0.00196	0.0284 mg/L	0.00196	6.92%
QC value within limits for Ni 232.003 Recovery = 141.81%						
Pb 220.353†	13.4	0.00372 mg/L	0.003221	0.00372 mg/L	0.003221	86.62%
QC value within limits for Pb 220.353 Recovery = 74.37%						
Sb 206.836†	34.6	0.0172 mg/L	0.00254	0.0172 mg/L	0.00254	14.73%
QC value within limits for Sb 206.836 Recovery = 86.19%						
Se 196.026†	14.2	0.0134 mg/L	0.00478	0.0134 mg/L	0.00478	35.72%
QC value within limits for Se 196.026 Recovery = 66.96%						
Si 251.611†	90.6	0.1679 mg/L	0.00958	0.1679 mg/L	0.00958	5.71%
QC value within limits for Si 251.611 Recovery = 83.95%						
Sn 189.927†	83.3	0.0185 mg/L	0.00038	0.0185 mg/L	0.00038	2.08%
QC value within limits for Sn 189.927 Recovery = 92.30%						
Tl 190.801†	30.9	0.0217 mg/L	0.00297	0.0217 mg/L	0.00297	13.68%
QC value within limits for Tl 190.801 Recovery = 108.54%						
V 292.402†	931.0	0.0092 mg/L	0.00048	0.0092 mg/L	0.00048	5.26%
QC value within limits for V 292.402 Recovery = 91.51%						
Zn 213.857†	1648.8	0.0269 mg/L	0.00106	0.0269 mg/L	0.00106	3.95%
QC value within limits for Zn 213.857 Recovery = 89.67%						

Ti 334.940†	7006.0	0.0097 mg/L	0.00013	0.0097 mg/L	0.00013	1.33%
QC value within limits for Ti 334.940 Recovery = 96.90%						
B 249.772†	230.4	0.1869 mg/L	0.00592	0.1869 mg/L	0.00592	3.17%
QC value within limits for B 249.772 Recovery = 93.43%						
Na 589.592†	2485.7	0.5137 mg/L	0.01147	0.5137 mg/L	0.01147	2.23%
QC value within limits for Na 589.592 Recovery = 102.75%						
K 766.490†	351.2	0.3487 mg/L	0.09010	0.3487 mg/L	0.09010	25.84%
QC value within limits for K 766.490 Recovery = 69.75%						
Li 670.784†	496.0	0.01468 mg/L	0.001815	0.01468 mg/L	0.001815	12.37%
QC value within limits for Li 670.784 Recovery = 97.85%						
Sr 407.771†	4644.3	0.00988 mg/L	0.000060	0.00988 mg/L	0.000060	0.61%
QC value within limits for Sr 407.771 Recovery = 98.79%						

All analyte(s) passed QC.

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Analysis Begun

Start Time: 11/3/2014 4:41:46 PM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:41:23 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/3/2014 4:41:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

==========
Analysis Begun

Start Time: 11/3/2014 4:42:13 PM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 100 **Autosampler Location: 131**
Sample ID: BLANK WG752044 **Date Collected: 11/3/2014 4:42:14 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time:
User canceled analysis.

==========
Analysis Begun

Start Time: 11/3/2014 4:42:30 PM **Plasma On Time: 11/3/2014 7:20:43 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110314ICP11.sif
Batch ID:
Results Data Set: 110314ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========
Sequence No.: 100 **Autosampler Location: 131**
Sample ID: BLANK WG752044 **Date Collected: 11/3/2014 4:42:31 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**

Dilution: **Sample Prep Vol: 50 mL**
Wash Time:

Nebulizer Parameters: BLANK WG752044

Analyte	Back Pressure	Flow
All	208.0 kPa	0.55 L/min

Mean Data: BLANK WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3140137.5	114.8	mg/L	3.22				2.80%
Y 360.073 R	74211.9	11.35	mg/L	0.105				0.92%
Ag 328.068†	275.4	0.00161	mg/L	0.000151	0.1547	mg/kg	0.01451	9.38%
Al 308.215†	-10.2	-0.0258	mg/L	0.02882	-2.482	mg/kg	2.7713	111.67%
As 188.979†	0.6	0.0007	mg/L	0.00611	0.0626	mg/kg	0.58740	938.19%
Ba 233.527†	8.5	0.0001	mg/L	0.00008	0.0098	mg/kg	0.00721	73.74%
Be 313.107†	-95.9	-0.00006	mg/L	0.000016	-0.00545	mg/kg	0.001531	28.10%
Ca 315.887†	1097.9	0.01643	mg/L	0.009345	1.579	mg/kg	0.8986	56.89%
Cd 214.440†	-87.6	-0.0013	mg/L	0.00021	-0.1230	mg/kg	0.01990	16.18%
Co 228.616†	31.7	0.0010	mg/L	0.00039	0.0985	mg/kg	0.03704	37.61%
Cr 205.560†	8.7	0.0004	mg/L	0.00014	0.0353	mg/kg	0.01366	38.65%
Cu 324.752†	24.9	0.0002	mg/L	0.00022	0.0147	mg/kg	0.02132	145.19%
Fe 238.863†	401.0	0.0226	mg/L	0.00127	2.169	mg/kg	0.1220	5.62%
Mg 279.077†	-93.4	-0.0139	mg/L	0.00073	-1.339	mg/kg	0.0699	5.22%
Mn 257.610†	109.8	0.0002	mg/L	0.00007	0.0165	mg/kg	0.00714	43.35%
Mo 202.031†	-12.8	-0.00114	mg/L	0.000511	-0.1096	mg/kg	0.04914	44.85%
Ni 232.003†	98.1	0.0130	mg/L	0.00316	1.250	mg/kg	0.3042	24.33%
Pb 220.353†	-6.9	-0.00191	mg/L	0.002300	-0.1837	mg/kg	0.22116	120.40%
Sb 206.836†	-6.6	-0.0033	mg/L	0.00285	-0.3143	mg/kg	0.27376	87.11%
Se 196.026†	-1.4	-0.0013	mg/L	0.00059	-0.1251	mg/kg	0.05717	45.69%
Si 251.611†	-9.3	-0.0172	mg/L	0.00931	-1.657	mg/kg	0.8948	53.99%
Sn 189.927†	-2.4	-0.0005	mg/L	0.00152	-0.0503	mg/kg	0.14577	289.61%
Tl 190.801†	6.3	0.0044	mg/L	0.00226	0.4228	mg/kg	0.21730	51.40%
V 292.402†	12.2	0.0001	mg/L	0.00006	0.0113	mg/kg	0.00602	53.11%
Zn 213.857†	96.8	0.0016	mg/L	0.00050	0.1517	mg/kg	0.04813	31.73%
Ti 334.940†	77.0	0.0001	mg/L	0.00003	0.0103	mg/kg	0.00264	25.68%
B 249.772†	2.0	0.0016	mg/L	0.00360	0.1539	mg/kg	0.34657	225.15%
Na 589.592†	-22.3	-0.0046	mg/L	0.00757	-0.4427	mg/kg	0.72752	164.33%
K 766.490†	-81.1	-0.0806	mg/L	0.01455	-7.748	mg/kg	1.3992	18.06%
Li 670.784†	182.5	0.00540	mg/L	0.000947	0.5194	mg/kg	0.09107	17.53%
Sr 407.771†	-18.6	-0.00004	mg/L	0.000065	-0.00384	mg/kg	0.006209	161.82%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 101 **Autosampler Location: 132**
Sample ID: LCS WG752044 **Date Collected: 11/3/2014 4:47:33 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: LCS WG752044

Analyte	Back Pressure	Flow
All	207.0 kPa	0.55 L/min

Mean Data: LCS WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3095763.9	113.2	mg/L	1.01				0.89%
Y 360.073 R	74968.2	11.47	mg/L	0.125				1.09%
Ag 328.068†	77902.5	0.4596	mg/L	0.00711	45.96	mg/kg	0.711	1.55%
Al 308.215†	19430.5	49.33	mg/L	0.516	4933	mg/kg	51.61	1.05%
As 188.979†	2187.6	2.374	mg/L	0.0165	237.4	mg/kg	1.65	0.70%
Ba 233.527†	204802.6	2.458	mg/L	0.0365	245.8	mg/kg	3.65	1.49%
Be 313.107†	1598187.7	0.9452	mg/L	0.00141	94.52	mg/kg	0.141	0.15%
Ca 315.887†	4347789.3	65.05	mg/L	0.221	6505	mg/kg	22.08	0.34%
Cd 214.440†	132471.7	1.926	mg/L	0.0320	192.6	mg/kg	3.20	1.66%
Co 228.616†	56931.1	1.841	mg/L	0.0276	184.1	mg/kg	2.76	1.50%
Cr 205.560†	29161.9	1.233	mg/L	0.0184	123.3	mg/kg	1.84	1.49%
Cu 324.752†	199253.7	1.213	mg/L	0.0185	121.3	mg/kg	1.85	1.53%
Fe 238.863†	1584268.7	89.12	mg/L	0.241	8912	mg/kg	24.06	0.27%
Mg 279.077†	164905.4	24.51	mg/L	0.412	2451	mg/kg	41.18	1.68%
Mn 257.610†	2054706.4	3.196	mg/L	0.0085	319.6	mg/kg	0.85	0.27%
Mo 202.031†	10567.0	0.9416	mg/L	0.00818	94.16	mg/kg	0.818	0.87%
Ni 232.003†	9412.5	1.254	mg/L	0.0054	125.4	mg/kg	0.54	0.43%
Pb 220.353†	3622.0	0.9981	mg/L	0.00662	99.81	mg/kg	0.662	0.66%
Sb 206.836†	2849.7	1.424	mg/L	0.0066	142.4	mg/kg	0.66	0.46%
Se 196.026†	1144.6	1.113	mg/L	0.0189	111.3	mg/kg	1.89	1.69%
Si 251.611†	9343.4	17.32	mg/L	0.188	1732	mg/kg	18.76	1.08%
Sn 189.927†	4486.5	1.006	mg/L	0.0077	100.6	mg/kg	0.77	0.76%
Tl 190.801†	2235.6	1.572	mg/L	0.0109	157.2	mg/kg	1.09	0.70%
V 292.402†	111815.2	1.093	mg/L	0.0178	109.3	mg/kg	1.78	1.62%
Zn 213.857†	99785.6	1.616	mg/L	0.0264	161.6	mg/kg	2.64	1.64%
Ti 334.940†	728132.9	1.006	mg/L	0.0014	100.6	mg/kg	0.14	0.14%
B 249.772†	1670.8	1.164	mg/L	0.0144	116.4	mg/kg	1.44	1.23%
Na 589.592†	25174.6	5.183	mg/L	0.0174	518.3	mg/kg	1.74	0.34%
K 766.490†	19893.0	19.75	mg/L	0.073	1975	mg/kg	7.32	0.37%
Li 670.784†	2260.0	0.06655	mg/L	0.001360	6.655	mg/kg	0.1360	2.04%
Sr 407.771†	580708.5	1.235	mg/L	0.0032	123.5	mg/kg	0.32	0.26%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 102 **Autosampler Location: 133**
Sample ID: LCSD WG752044 **Date Collected: 11/3/2014 4:52:38 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: LCSD WG752044

Analyte	Back Pressure	Flow
All	208.0 kPa	0.55 L/min

Mean Data: LCSD WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3089955.4	113.0	mg/L	0.64				0.57%
Y 360.073 R	74680.0	11.42	mg/L	0.330				2.89%
Ag 328.068†	75419.1	0.4448	mg/L	0.01053	44.48	mg/kg	1.053	2.37%
Al 308.215†	17686.0	44.90	mg/L	0.350	4490	mg/kg	34.96	0.78%
As 188.979†	2208.9	2.397	mg/L	0.0350	239.7	mg/kg	3.50	1.46%
Ba 233.527†	197950.9	2.376	mg/L	0.0632	237.6	mg/kg	6.32	2.66%
Be 313.107†	1583871.7	0.9367	mg/L	0.00085	93.67	mg/kg	0.085	0.09%
Ca 315.887†	4457614.3	66.70	mg/L	0.091	6670	mg/kg	9.07	0.14%
Cd 214.440†	130825.0	1.902	mg/L	0.0550	190.2	mg/kg	5.50	2.89%
Co 228.616†	56746.6	1.835	mg/L	0.0491	183.5	mg/kg	4.91	2.68%
Cr 205.560†	28619.5	1.210	mg/L	0.0317	121.0	mg/kg	3.17	2.62%
Cu 324.752†	197982.1	1.205	mg/L	0.0289	120.5	mg/kg	2.89	2.40%
Fe 238.863†	1455912.6	81.90	mg/L	0.118	8190	mg/kg	11.82	0.14%
Mg 279.077†	157271.3	23.38	mg/L	0.691	2338	mg/kg	69.07	2.95%
Mn 257.610†	2021000.0	3.144	mg/L	0.0035	314.4	mg/kg	0.35	0.11%
Mo 202.031†	10623.7	0.9463	mg/L	0.01050	94.63	mg/kg	1.050	1.11%
Ni 232.003†	9451.0	1.259	mg/L	0.0154	125.9	mg/kg	1.54	1.23%
Pb 220.353†	3662.6	1.010	mg/L	0.0108	101.0	mg/kg	1.08	1.07%
Sb 206.836†	2911.4	1.455	mg/L	0.0189	145.5	mg/kg	1.89	1.30%
Se 196.026†	1144.1	1.109	mg/L	0.0101	110.9	mg/kg	1.01	0.91%
Si 251.611†	9975.7	18.49	mg/L	0.149	1849	mg/kg	14.95	0.81%
Sn 189.927†	4552.6	1.019	mg/L	0.0125	101.9	mg/kg	1.25	1.22%
Tl 190.801†	2236.0	1.572	mg/L	0.0188	157.2	mg/kg	1.88	1.20%
V 292.402†	111042.0	1.086	mg/L	0.0326	108.6	mg/kg	3.26	3.00%
Zn 213.857†	99037.2	1.605	mg/L	0.0438	160.5	mg/kg	4.38	2.73%
Ti 334.940†	792769.0	1.096	mg/L	0.0004	109.6	mg/kg	0.04	0.03%
B 249.772†	1647.4	1.160	mg/L	0.0152	116.0	mg/kg	1.52	1.31%
Na 589.592†	24981.5	5.144	mg/L	0.0141	514.4	mg/kg	1.41	0.27%
K 766.490†	18701.9	18.57	mg/L	0.092	1857	mg/kg	9.19	0.50%
Li 670.784†	2083.2	0.06133	mg/L	0.002351	6.133	mg/kg	0.2351	3.83%
Sr 407.771†	582758.7	1.240	mg/L	0.0013	124.0	mg/kg	0.13	0.11%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 103 **Autosampler Location: 134**
Sample ID: L729024-01 WG752044 **Date Collected: 11/3/2014 4:57:43 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729024-01 WG752044

Analyte	Back Pressure	Flow
All	208.0 kPa	0.55 L/min

Mean Data: L729024-01 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2930551.6	107.2	mg/L	1.23				1.15%
Y 360.073 R	75777.6	11.59	mg/L	0.151				1.31%
Ag 328.068†	158.6	-0.00045	mg/L	0.000231	-0.2158	mg/kg	0.11116	51.51%
Al 308.215†	178.3	0.4039	mg/L	0.01706	194.2	mg/kg	8.20	4.22%
As 188.979†	14.6	0.0075	mg/L	0.00450	3.604	mg/kg	2.1619	60.00%
Ba 233.527†	1103.3	0.0130	mg/L	0.00036	6.226	mg/kg	0.1753	2.81%
Be 313.107†	315.7	0.00017	mg/L	0.000026	0.07957	mg/kg	0.012739	16.01%
Ca 315.887†	16495361.3	246.7	mg/L	2.58	118600	mg/kg	1238.30	1.04%
Cd 214.440†	-16.1	-0.0008	mg/L	0.00006	-0.4023	mg/kg	0.03007	7.48%
Co 228.616†	67.3	0.0012	mg/L	0.00007	0.5631	mg/kg	0.03563	6.33%
Cr 205.560†	77.0	0.0019	mg/L	0.00026	0.9184	mg/kg	0.12280	13.37%
Cu 324.752†	452.1	-0.0000	mg/L	0.00044	-0.0091	mg/kg	0.21168	>999.9%
Fe 238.863†	10477.3	0.5847	mg/L	0.00657	281.1	mg/kg	3.16	1.12%
Mg 279.077†	5021.5	0.7358	mg/L	0.01292	353.8	mg/kg	6.21	1.76%
Mn 257.610†	13549.4	0.0208	mg/L	0.00018	9.998	mg/kg	0.0877	0.88%
Mo 202.031†	10.8	-0.00035	mg/L	0.000124	-0.1701	mg/kg	0.05945	34.94%
Ni 232.003†	107.4	0.0176	mg/L	0.00213	8.452	mg/kg	1.0251	12.13%
Pb 220.353†	-7.0	0.00384	mg/L	0.001471	1.848	mg/kg	0.7070	38.26%
Sb 206.836†	-2.0	-0.0013	mg/L	0.00356	-0.6101	mg/kg	1.71045	280.37%
Se 196.026†	9.4	0.0032	mg/L	0.00604	1.536	mg/kg	2.9024	188.98%
Si 251.611†	107.7	0.1917	mg/L	0.01026	92.18	mg/kg	4.931	5.35%
Sn 189.927†	-8.3	0.0002	mg/L	0.00113	0.1054	mg/kg	0.54528	517.45%
Tl 190.801†	13.4	0.0053	mg/L	0.00068	2.562	mg/kg	0.3291	12.84%
V 292.402†	375.0	0.0034	mg/L	0.00013	1.635	mg/kg	0.0629	3.85%
Zn 213.857†	-691.2	-0.0052	mg/L	0.00015	-2.499	mg/kg	0.0730	2.92%
Ti 334.940†	3172.5	0.0058	mg/L	0.00025	2.777	mg/kg	0.1203	4.33%
B 249.772†	25.4	0.0188	mg/L	0.00094	9.051	mg/kg	0.4523	5.00%
Na 589.592†	2077.8	0.4023	mg/L	0.00915	193.4	mg/kg	4.40	2.27%
K 766.490†	283.6	0.2713	mg/L	0.14388	130.4	mg/kg	69.17	53.04%
Li 670.784†	35.7	0.00072	mg/L	0.001442	0.3473	mg/kg	0.69337	199.62%
Sr 407.771†	782673.7	1.662	mg/L	0.0158	799.1	mg/kg	7.59	0.95%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 104 **Autosampler Location: 135**
Sample ID: SD L729024-01 WG752044 **Date Collected: 11/3/2014 5:03:00 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: 25X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: SD L729024-01 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: SD L729024-01 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3070212.0	112.3	mg/L	2.40				2.14%
Y 360.073 R	74391.4	11.38	mg/L	0.096				0.85%
Ag 328.068†	312.2	0.00154	mg/L	0.000140	3.709	mg/kg	0.3366	9.08%
Al 308.215†	27.2	0.0591	mg/L	0.00820	142.2	mg/kg	19.72	13.87%
As 188.979†	6.2	0.0051	mg/L	0.00347	12.15	mg/kg	8.351	68.75%
Ba 233.527†	240.3	0.0028	mg/L	0.00013	6.792	mg/kg	0.3082	4.54%
Be 313.107†	66.5	0.00004	mg/L	0.000008	0.08423	mg/kg	0.020396	24.21%
Ca 315.887†	3356533.1	50.21	mg/L	0.138	120700	mg/kg	332.88	0.28%
Cd 214.440†	-66.2	-0.0011	mg/L	0.00015	-2.618	mg/kg	0.3660	13.98%
Co 228.616†	46.2	0.0013	mg/L	0.00026	3.098	mg/kg	0.6203	20.02%
Cr 205.560†	29.5	0.0010	mg/L	0.00014	2.345	mg/kg	0.3402	14.51%
Cu 324.752†	3.3	-0.0005	mg/L	0.00038	-1.301	mg/kg	0.9048	69.56%
Fe 238.863†	2371.5	0.1325	mg/L	0.00287	318.4	mg/kg	6.89	2.16%
Mg 279.077†	945.6	0.1384	mg/L	0.00271	332.6	mg/kg	6.51	1.96%
Mn 257.610†	2673.5	0.0041	mg/L	0.00022	9.860	mg/kg	0.5258	5.33%
Mo 202.031†	6.6	0.00032	mg/L	0.000193	0.7657	mg/kg	0.46286	60.45%
Ni 232.003†	87.4	0.0123	mg/L	0.00361	29.47	mg/kg	8.688	29.48%
Pb 220.353†	-1.8	0.00068	mg/L	0.000835	1.634	mg/kg	2.0083	122.90%
Sb 206.836†	-0.5	-0.0003	mg/L	0.00350	-0.7476	mg/kg	8.42020	>999.9%
Se 196.026†	5.2	0.0038	mg/L	0.00218	9.095	mg/kg	5.2317	57.53%
Si 251.611†	16.2	0.0284	mg/L	0.00778	68.34	mg/kg	18.704	27.37%
Sn 189.927†	-5.5	-0.0008	mg/L	0.00100	-1.892	mg/kg	2.4064	127.19%
Tl 190.801†	7.9	0.0047	mg/L	0.00418	11.32	mg/kg	10.059	88.88%
V 292.402†	77.6	0.0007	mg/L	0.00015	1.691	mg/kg	0.3561	21.06%
Zn 213.857†	-515.3	-0.0072	mg/L	0.00021	-17.24	mg/kg	0.506	2.93%
Ti 334.940†	659.0	0.0012	mg/L	0.00008	2.870	mg/kg	0.1896	6.60%
B 249.772†	6.7	0.0051	mg/L	0.00294	12.16	mg/kg	7.060	58.06%
Na 589.592†	415.3	0.0803	mg/L	0.00958	193.1	mg/kg	23.02	11.93%
K 766.490†	-17.7	-0.0197	mg/L	0.05298	-47.40	mg/kg	127.361	268.67%
Li 670.784†	43.5	0.00122	mg/L	0.000906	2.930	mg/kg	2.1771	74.31%
Sr 407.771†	164520.8	0.3494	mg/L	0.00039	840.0	mg/kg	0.95	0.11%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 105 **Autosampler Location: 137**
Sample ID: MS L729024-01 WG752044 **Date Collected: 11/3/2014 5:08:02 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.51 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: MS L729024-01 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: MS L729024-01 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2910671.7	106.4	mg/L	0.91				0.86%
Y 360.073 R	72412.3	11.08	mg/L	0.250				2.25%
Ag 328.068†	26809.8	0.1554	mg/L	0.00095	76.20	mg/kg	0.465	0.61%
Al 308.215†	703.9	1.734	mg/L	0.0594	850.1	mg/kg	29.13	3.43%
As 188.979†	197.1	0.2057	mg/L	0.00923	100.8	mg/kg	4.53	4.49%
Ba 233.527†	17068.3	0.2046	mg/L	0.00098	100.3	mg/kg	0.48	0.48%
Be 313.107†	320998.7	0.1898	mg/L	0.00024	93.04	mg/kg	0.119	0.13%
Ca 315.887†	16972095.3	253.9	mg/L	1.97	124400	mg/kg	963.61	0.77%
Cd 214.440†	12961.3	0.1883	mg/L	0.00217	92.32	mg/kg	1.063	1.15%
Co 228.616†	6505.3	0.2094	mg/L	0.00448	102.6	mg/kg	2.20	2.14%
Cr 205.560†	4765.3	0.2004	mg/L	0.00468	98.22	mg/kg	2.296	2.34%
Cu 324.752†	33170.9	0.1984	mg/L	0.00252	97.27	mg/kg	1.233	1.27%
Fe 238.863†	32730.4	1.836	mg/L	0.0178	900.2	mg/kg	8.72	0.97%
Mg 279.077†	20966.2	3.110	mg/L	0.0183	1525	mg/kg	8.97	0.59%
Mn 257.610†	149200.8	0.2319	mg/L	0.00244	113.7	mg/kg	1.20	1.05%
Mo 202.031†	2208.4	0.1948	mg/L	0.00428	95.49	mg/kg	2.100	2.20%
Ni 232.003†	1682.6	0.2265	mg/L	0.00247	111.0	mg/kg	1.21	1.09%
Pb 220.353†	705.4	0.2017	mg/L	0.00383	98.85	mg/kg	1.876	1.90%
Sb 206.836†	391.4	0.1952	mg/L	0.00758	95.67	mg/kg	3.715	3.88%
Se 196.026†	199.1	0.1816	mg/L	0.00549	89.01	mg/kg	2.692	3.02%
Si 251.611†	323.5	0.5912	mg/L	0.01528	289.8	mg/kg	7.49	2.58%
Sn 189.927†	827.2	0.1853	mg/L	0.00295	90.86	mg/kg	1.445	1.59%
Tl 190.801†	288.9	0.1986	mg/L	0.00334	97.36	mg/kg	1.636	1.68%
V 292.402†	20464.8	0.2009	mg/L	0.00205	98.49	mg/kg	1.004	1.02%
Zn 213.857†	10934.9	0.1845	mg/L	0.00429	90.42	mg/kg	2.104	2.33%
Ti 334.940†	127958.1	0.1783	mg/L	0.00139	87.41	mg/kg	0.682	0.78%
B 249.772†	261.5	0.2078	mg/L	0.00728	101.8	mg/kg	3.57	3.51%
Na 589.592†	11950.7	2.442	mg/L	0.0150	1197	mg/kg	7.37	0.62%
K 766.490†	2437.2	2.410	mg/L	0.0461	1181	mg/kg	22.58	1.91%
Li 670.784†	7294.7	0.2155	mg/L	0.00108	105.6	mg/kg	0.53	0.50%
Sr 407.771†	830409.6	1.764	mg/L	0.0381	864.6	mg/kg	18.69	2.16%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 106 **Autosampler Location: 138**
Sample ID: MSD L729024-01 WG752044 **Date Collected: 11/3/2014 5:13:19 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.53 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: MSD L729024-01 WG752044

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: MSD L729024-01 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2846758.8	104.1	mg/L	1.24				1.20%
Y 360.073 R	73827.7	11.29	mg/L	0.292				2.59%
Ag 328.068†	20941.8	0.1210	mg/L	0.00181	57.05	mg/kg	0.855	1.50%
Al 308.215†	683.0	1.673	mg/L	0.0531	789.2	mg/kg	25.06	3.18%
As 188.979†	197.4	0.2047	mg/L	0.00461	96.56	mg/kg	2.174	2.25%
Ba 233.527†	17081.1	0.2047	mg/L	0.00280	96.57	mg/kg	1.321	1.37%
Be 313.107†	319493.5	0.1889	mg/L	0.00274	89.11	mg/kg	1.290	1.45%
Ca 315.887†	19731479.4	295.2	mg/L	7.87	139200	mg/kg	3710.80	2.67%
Cd 214.440†	12991.3	0.1887	mg/L	0.00238	89.01	mg/kg	1.124	1.26%
Co 228.616†	6453.8	0.2075	mg/L	0.00235	97.90	mg/kg	1.111	1.13%
Cr 205.560†	4751.2	0.1995	mg/L	0.00258	94.12	mg/kg	1.215	1.29%
Cu 324.752†	33316.4	0.1988	mg/L	0.00215	93.80	mg/kg	1.014	1.08%
Fe 238.863†	28586.5	1.603	mg/L	0.0180	755.9	mg/kg	8.51	1.13%
Mg 279.077†	19834.1	2.940	mg/L	0.0446	1387	mg/kg	21.03	1.52%
Mn 257.610†	143413.2	0.2228	mg/L	0.00297	105.1	mg/kg	1.40	1.33%
Mo 202.031†	2201.4	0.1939	mg/L	0.00220	91.48	mg/kg	1.038	1.13%
Ni 232.003†	1651.0	0.2229	mg/L	0.00250	105.1	mg/kg	1.18	1.12%
Pb 220.353†	697.9	0.2006	mg/L	0.00098	94.62	mg/kg	0.464	0.49%
Sb 206.836†	393.5	0.1962	mg/L	0.00147	92.54	mg/kg	0.692	0.75%
Se 196.026†	219.1	0.1992	mg/L	0.00535	93.98	mg/kg	2.526	2.69%
Si 251.611†	302.2	0.5505	mg/L	0.00910	259.7	mg/kg	4.29	1.65%
Sn 189.927†	834.5	0.1873	mg/L	0.00253	88.33	mg/kg	1.192	1.35%
Tl 190.801†	289.3	0.1982	mg/L	0.00258	93.50	mg/kg	1.216	1.30%
V 292.402†	20400.6	0.2003	mg/L	0.00170	94.47	mg/kg	0.804	0.85%
Zn 213.857†	10948.0	0.1857	mg/L	0.00233	87.62	mg/kg	1.099	1.25%
Ti 334.940†	141897.2	0.1978	mg/L	0.00312	93.32	mg/kg	1.472	1.58%
B 249.772†	262.7	0.2091	mg/L	0.00592	98.64	mg/kg	2.795	2.83%
Na 589.592†	11590.0	2.363	mg/L	0.0103	1115	mg/kg	4.87	0.44%
K 766.490†	2155.6	2.128	mg/L	0.0543	1004	mg/kg	25.61	2.55%
Li 670.784†	7013.2	0.2071	mg/L	0.00181	97.70	mg/kg	0.854	0.87%
Sr 407.771†	883593.8	1.876	mg/L	0.0493	885.0	mg/kg	23.26	2.63%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 107 **Autosampler Location: 139**
Sample ID: L729024-02 WG752044 **Date Collected: 11/3/2014 5:18:36 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.53 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729024-02 WG752044

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: L729024-02 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2844221.8	104.0	mg/L	0.79				0.76%
Y 360.073 R	69929.9	10.70	mg/L	0.187				1.74%
Ag 328.068†	262.2	0.00076	mg/L	0.001026	0.3572	mg/kg	0.48416	135.54%
Al 308.215†	956.8	2.399	mg/L	0.0783	1131	mg/kg	36.94	3.26%
As 188.979†	13.6	0.0092	mg/L	0.00119	4.332	mg/kg	0.5597	12.92%
Ba 233.527†	3195.8	0.0381	mg/L	0.00048	17.99	mg/kg	0.229	1.27%
Be 313.107†	208.4	0.00011	mg/L	0.000025	0.05201	mg/kg	0.011570	22.24%
Ca 315.887†	10693175.6	160.0	mg/L	2.10	75450	mg/kg	991.91	1.31%
Cd 214.440†	-36.8	-0.0011	mg/L	0.00010	-0.5254	mg/kg	0.04800	9.14%
Co 228.616†	88.4	0.0022	mg/L	0.00014	1.044	mg/kg	0.0664	6.37%
Cr 205.560†	132.2	0.0047	mg/L	0.00014	2.202	mg/kg	0.0643	2.92%
Cu 324.752†	442.4	0.0010	mg/L	0.00036	0.4854	mg/kg	0.17208	35.45%
Fe 238.863†	59164.9	3.325	mg/L	0.0972	1569	mg/kg	45.85	2.92%
Mg 279.077†	18624.8	2.765	mg/L	0.0906	1304	mg/kg	42.73	3.28%
Mn 257.610†	48886.4	0.0758	mg/L	0.00242	35.75	mg/kg	1.140	3.19%
Mo 202.031†	20.9	0.00113	mg/L	0.000601	0.5320	mg/kg	0.28327	53.25%
Ni 232.003†	83.7	0.0135	mg/L	0.00094	6.362	mg/kg	0.4429	6.96%
Pb 220.353†	-2.5	0.00285	mg/L	0.002842	1.343	mg/kg	1.3407	99.81%
Sb 206.836†	1.8	0.0008	mg/L	0.00386	0.3686	mg/kg	1.82229	494.37%
Se 196.026†	10.0	0.0072	mg/L	0.00712	3.380	mg/kg	3.3583	99.37%
Si 251.611†	143.2	0.2607	mg/L	0.01732	123.0	mg/kg	8.17	6.65%
Sn 189.927†	-12.6	-0.0011	mg/L	0.00075	-0.5063	mg/kg	0.35527	70.16%
Tl 190.801†	3.8	0.0001	mg/L	0.00241	0.0429	mg/kg	1.13855	>999.9%
V 292.402†	1245.9	0.0118	mg/L	0.00019	5.585	mg/kg	0.0874	1.56%
Zn 213.857†	-186.9	0.0004	mg/L	0.00013	0.1916	mg/kg	0.06157	32.14%
Ti 334.940†	9769.2	0.0143	mg/L	0.00073	6.758	mg/kg	0.3421	5.06%
B 249.772†	22.8	0.0109	mg/L	0.00118	5.149	mg/kg	0.5561	10.80%
Na 589.592†	1943.9	0.3836	mg/L	0.00538	180.9	mg/kg	2.54	1.40%
K 766.490†	859.1	0.8464	mg/L	0.01927	399.2	mg/kg	9.09	2.28%
Li 670.784†	318.3	0.00919	mg/L	0.001365	4.334	mg/kg	0.6441	14.86%
Sr 407.771†	440401.2	0.9350	mg/L	0.01765	441.0	mg/kg	8.33	1.89%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 108 **Autosampler Location: 140**
Sample ID: L729024-04 WG752044 **Date Collected: 11/3/2014 5:23:51 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.53 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729024-04 WG752044

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: L729024-04 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2930279.9	107.2	mg/L	2.55				2.38%
Y 360.073 R	71309.5	10.91	mg/L	0.081				0.74%
Ag 328.068†	193.0	0.00028	mg/L	0.000604	0.1333	mg/kg	0.28493	213.75%
Al 308.215†	1149.2	2.884	mg/L	0.1877	1360	mg/kg	88.55	6.51%
As 188.979†	11.8	0.0067	mg/L	0.01161	3.137	mg/kg	5.4773	174.59%
Ba 233.527†	3300.1	0.0394	mg/L	0.00196	18.57	mg/kg	0.925	4.98%
Be 313.107†	269.5	0.00015	mg/L	0.000021	0.06860	mg/kg	0.009796	14.28%
Ca 315.887†	11775990.5	176.1	mg/L	6.32	83090	mg/kg	2981.26	3.59%
Cd 214.440†	-50.2	-0.0014	mg/L	0.00025	-0.6527	mg/kg	0.11662	17.87%
Co 228.616†	83.0	0.0020	mg/L	0.00039	0.9297	mg/kg	0.18216	19.59%
Cr 205.560†	140.3	0.0049	mg/L	0.00023	2.318	mg/kg	0.1073	4.63%
Cu 324.752†	304.3	0.0000	mg/L	0.00037	0.0184	mg/kg	0.17221	936.49%
Fe 238.863†	69950.1	3.932	mg/L	0.1034	1855	mg/kg	48.79	2.63%
Mg 279.077†	19136.4	2.840	mg/L	0.0698	1340	mg/kg	32.91	2.46%
Mn 257.610†	50962.3	0.0790	mg/L	0.00220	37.26	mg/kg	1.039	2.79%
Mo 202.031†	19.7	0.00096	mg/L	0.000651	0.4521	mg/kg	0.30714	67.94%
Ni 232.003†	109.9	0.0172	mg/L	0.00279	8.123	mg/kg	1.3171	16.21%
Pb 220.353†	-6.5	0.00207	mg/L	0.000448	0.9751	mg/kg	0.21111	21.65%
Sb 206.836†	-3.2	-0.0017	mg/L	0.00592	-0.8009	mg/kg	2.79236	348.64%
Se 196.026†	8.5	0.0056	mg/L	0.00357	2.638	mg/kg	1.6843	63.84%
Si 251.611†	138.6	0.2518	mg/L	0.02005	118.8	mg/kg	9.46	7.97%
Sn 189.927†	-17.5	-0.0020	mg/L	0.00132	-0.9248	mg/kg	0.62060	67.11%
Tl 190.801†	11.2	0.0050	mg/L	0.00040	2.373	mg/kg	0.1897	7.99%
V 292.402†	1174.3	0.0111	mg/L	0.00064	5.223	mg/kg	0.3001	5.75%
Zn 213.857†	-148.3	0.0013	mg/L	0.00035	0.6340	mg/kg	0.16539	26.09%
Ti 334.940†	11959.5	0.0174	mg/L	0.00047	8.229	mg/kg	0.2227	2.71%
B 249.772†	22.7	0.0095	mg/L	0.00286	4.501	mg/kg	1.3495	29.98%
Na 589.592†	2883.7	0.5760	mg/L	0.00612	271.7	mg/kg	2.89	1.06%
K 766.490†	751.6	0.7389	mg/L	0.05981	348.5	mg/kg	28.21	8.09%
Li 670.784†	311.0	0.00895	mg/L	0.001969	4.220	mg/kg	0.9287	22.01%
Sr 407.771†	511207.5	1.085	mg/L	0.0179	512.0	mg/kg	8.46	1.65%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 109 **Autosampler Location: 141**
Sample ID: L729024-05 WG752044 **Date Collected: 11/3/2014 5:29:06 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.54 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729024-05 WG752044

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: L729024-05 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2848734.5	104.2	mg/L	1.09				1.04%
Y 360.073 R	69390.7	10.61	mg/L	0.239				2.25%
Ag 328.068†	257.7	0.00036	mg/L	0.000399	0.1650	mg/kg	0.18485	112.06%
Al 308.215†	2698.7	6.800	mg/L	0.0830	3148	mg/kg	38.44	1.22%
As 188.979†	20.7	0.0124	mg/L	0.01248	5.759	mg/kg	5.7800	100.37%
Ba 233.527†	10553.1	0.1262	mg/L	0.00319	58.44	mg/kg	1.478	2.53%
Be 313.107†	1047.3	0.00060	mg/L	0.000018	0.2773	mg/kg	0.00839	3.03%
Ca 315.887†	18561131.0	277.6	mg/L	3.31	128500	mg/kg	1530.57	1.19%
Cd 214.440†	-14.0	-0.0015	mg/L	0.00013	-0.7026	mg/kg	0.06018	8.56%
Co 228.616†	179.6	0.0047	mg/L	0.00022	2.171	mg/kg	0.1034	4.76%
Cr 205.560†	311.0	0.0115	mg/L	0.00017	5.316	mg/kg	0.0784	1.47%
Cu 324.752†	951.5	0.0031	mg/L	0.00074	1.451	mg/kg	0.3446	23.75%
Fe 238.863†	186311.4	10.48	mg/L	0.148	4850	mg/kg	68.61	1.41%
Mg 279.077†	48425.6	7.195	mg/L	0.1125	3331	mg/kg	52.10	1.56%
Mn 257.610†	136382.8	0.2116	mg/L	0.00320	97.98	mg/kg	1.482	1.51%
Mo 202.031†	20.4	0.00075	mg/L	0.000432	0.3452	mg/kg	0.19990	57.92%
Ni 232.003†	173.0	0.0274	mg/L	0.00364	12.70	mg/kg	1.684	13.26%
Pb 220.353†	15.2	0.00992	mg/L	0.003491	4.591	mg/kg	1.6163	35.21%
Sb 206.836†	4.5	0.0022	mg/L	0.00472	1.012	mg/kg	2.1867	216.00%
Se 196.026†	12.8	0.0103	mg/L	0.01038	4.762	mg/kg	4.8037	100.87%
Si 251.611†	357.0	0.6539	mg/L	0.00715	302.7	mg/kg	3.31	1.09%
Sn 189.927†	-23.7	-0.0017	mg/L	0.00291	-0.7690	mg/kg	1.34865	175.38%
Tl 190.801†	8.6	0.0017	mg/L	0.00530	0.7927	mg/kg	2.45256	309.39%
V 292.402†	3541.8	0.0338	mg/L	0.00069	15.63	mg/kg	0.318	2.04%
Zn 213.857†	647.6	0.0158	mg/L	0.00076	7.321	mg/kg	0.3498	4.78%
Ti 334.940†	12646.7	0.0188	mg/L	0.00065	8.710	mg/kg	0.3011	3.46%
B 249.772†	54.3	0.0208	mg/L	0.00170	9.608	mg/kg	0.7876	8.20%
Na 589.592†	4597.3	0.9179	mg/L	0.01576	424.9	mg/kg	7.30	1.72%
K 766.490†	1530.6	1.508	mg/L	0.0432	698.2	mg/kg	20.01	2.87%
Li 670.784†	652.8	0.01890	mg/L	0.001401	8.748	mg/kg	0.6484	7.41%
Sr 407.771†	350759.8	0.7423	mg/L	0.00075	343.6	mg/kg	0.35	0.10%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 110 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/3/2014 5:34:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2959520.5	108.2 mg/L	2.42			2.24%
Y 360.073 R	71077.7	10.87 mg/L	0.079			0.73%
Ag 328.068†	159904.0	0.9350 mg/L	0.00225	0.9350 mg/L	0.00225	0.24%
QC value within limits for Ag 328.068 Recovery = 93.50%						
Al 308.215†	3840.5	9.731 mg/L	0.3464	9.731 mg/L	0.3464	3.56%
QC value within limits for Al 308.215 Recovery = 97.31%						
As 188.979†	1757.5	1.910 mg/L	0.0075	1.910 mg/L	0.0075	0.39%
QC value within limits for As 188.979 Recovery = 95.51%						
Ba 233.527†	42646.5	0.5117 mg/L	0.00367	0.5117 mg/L	0.00367	0.72%
QC value within limits for Ba 233.527 Recovery = 102.34%						
Be 313.107†	324657.0	0.1920 mg/L	0.00056	0.1920 mg/L	0.00056	0.29%
QC value within limits for Be 313.107 Recovery = 95.99%						
Ca 315.887†	3223725.8	48.23 mg/L	0.143	48.23 mg/L	0.143	0.30%
QC value within limits for Ca 315.887 Recovery = 96.45%						
Cd 214.440†	33125.4	0.4824 mg/L	0.00163	0.4824 mg/L	0.00163	0.34%
QC value within limits for Cd 214.440 Recovery = 96.49%						
Co 228.616†	31588.5	1.022 mg/L	0.0077	1.022 mg/L	0.0077	0.75%
QC value within limits for Co 228.616 Recovery = 102.16%						
Cr 205.560†	23790.9	1.007 mg/L	0.0060	1.007 mg/L	0.0060	0.59%
QC value within limits for Cr 205.560 Recovery = 100.69%						
Cu 324.752†	306725.3	1.861 mg/L	0.0037	1.861 mg/L	0.0037	0.20%
QC value within limits for Cu 324.752 Recovery = 93.03%						
Fe 238.863†	167216.0	9.406 mg/L	0.0308	9.406 mg/L	0.0308	0.33%
QC value within limits for Fe 238.863 Recovery = 94.06%						
Mg 279.077†	63911.4	9.513 mg/L	0.0362	9.513 mg/L	0.0362	0.38%
QC value within limits for Mg 279.077 Recovery = 95.13%						
Mn 257.610†	627855.3	0.9769 mg/L	0.00110	0.9769 mg/L	0.00110	0.11%
QC value within limits for Mn 257.610 Recovery = 97.69%						
Mo 202.031†	5390.7	0.4789 mg/L	0.00302	0.4789 mg/L	0.00302	0.63%
QC value within limits for Mo 202.031 Recovery = 95.79%						
Ni 232.003†	15082.6	2.000 mg/L	0.0112	2.000 mg/L	0.0112	0.56%
QC value within limits for Ni 232.003 Recovery = 100.00%						
Pb 220.353†	1748.9	0.4861 mg/L	0.00330	0.4861 mg/L	0.00330	0.68%
QC value within limits for Pb 220.353 Recovery = 97.23%						
Sb 206.836†	3837.7	1.914 mg/L	0.0186	1.914 mg/L	0.0186	0.97%
QC value within limits for Sb 206.836 Recovery = 95.69%						
Se 196.026†	2047.4	1.924 mg/L	0.0127	1.924 mg/L	0.0127	0.66%
QC value within limits for Se 196.026 Recovery = 96.20%						
Si 251.611†	1064.7	1.971 mg/L	0.0800	1.971 mg/L	0.0800	4.06%
QC value within limits for Si 251.611 Recovery = 98.57%						
Sn 189.927†	8627.7	1.911 mg/L	0.0132	1.911 mg/L	0.0132	0.69%
QC value within limits for Sn 189.927 Recovery = 95.56%						
Tl 190.801†	2771.3	1.947 mg/L	0.0114	1.947 mg/L	0.0114	0.58%
QC value within limits for Tl 190.801 Recovery = 97.34%						
V 292.402†	96697.0	0.9505 mg/L	0.00283	0.9505 mg/L	0.00283	0.30%
QC value within limits for V 292.402 Recovery = 95.05%						
Zn 213.857†	170273.4	2.778 mg/L	0.0055	2.778 mg/L	0.0055	0.20%
QC value within limits for Zn 213.857 Recovery = 92.61%						

Ti 334.940†	701652.7	0.9704 mg/L	0.00090	0.9704 mg/L	0.00090	0.09%
QC value within limits for Ti 334.940 Recovery = 97.04%						
B 249.772†	2393.4	1.923 mg/L	0.0648	1.923 mg/L	0.0648	3.37%
QC value within limits for B 249.772 Recovery = 96.14%						
Na 589.592†	246132.8	50.87 mg/L	0.129	50.87 mg/L	0.129	0.25%
QC value within limits for Na 589.592 Recovery = 101.74%						
K 766.490†	47830.2	47.50 mg/L	0.246	47.50 mg/L	0.246	0.52%
QC value within limits for K 766.490 Recovery = 94.99%						
Li 670.784†	51160.6	1.514 mg/L	0.0028	1.514 mg/L	0.0028	0.18%
QC value within limits for Li 670.784 Recovery = 100.93%						
Sr 407.771†	489759.0	1.042 mg/L	0.0021	1.042 mg/L	0.0021	0.20%
QC value within limits for Sr 407.771 Recovery = 104.18%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 111 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/3/2014 5:39:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3096099.7	113.2	mg/L	1.25				1.10%
Y 360.073 R	73816.4	11.29	mg/L	0.223				1.97%
Ag 328.068†	313.3	0.00183	mg/L	0.000716	0.00183	mg/L	0.000716	39.17%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-13.2	-0.0335	mg/L	0.02075	-0.0335	mg/L	0.02075	61.98%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	4.2	0.0046	mg/L	0.00570	0.0046	mg/L	0.00570	124.03%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	16.6	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	43.43%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-61.7	-0.00004	mg/L	0.000036	-0.00004	mg/L	0.000036	98.85%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	961.5	0.01438	mg/L	0.002675	0.01438	mg/L	0.002675	18.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-87.0	-0.0013	mg/L	0.00012	-0.0013	mg/L	0.00012	9.11%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	28.4	0.0009	mg/L	0.00032	0.0009	mg/L	0.00032	34.46%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	15.4	0.0007	mg/L	0.00022	0.0007	mg/L	0.00022	33.36%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	258.3	0.0016	mg/L	0.00019	0.0016	mg/L	0.00019	12.01%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	-67.3	-0.0038	mg/L	0.00052	-0.0038	mg/L	0.00052	13.73%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-78.9	-0.0118	mg/L	0.00193	-0.0118	mg/L	0.00193	16.41%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-6.6	-0.0000	mg/L	0.00005	-0.0000	mg/L	0.00005	493.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-5.2	-0.00046	mg/L	0.000376	-0.00046	mg/L	0.000376	81.97%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	95.0	0.0126	mg/L	0.00178	0.0126	mg/L	0.00178	14.14%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-15.3	-0.00424	mg/L	0.000909	-0.00424	mg/L	0.000909	21.43%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.1	-0.0005	mg/L	0.00329	-0.0005	mg/L	0.00329	619.37%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.2	-0.0011	mg/L	0.00751	-0.0011	mg/L	0.00751	668.04%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-7.9	-0.0146	mg/L	0.00440	-0.0146	mg/L	0.00440	30.18%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	0.0	0.0000	mg/L	0.00069	0.0000	mg/L	0.00069	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	5.3	0.0037	mg/L	0.00240	0.0037	mg/L	0.00240	64.48%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-60.9	-0.0006	mg/L	0.00054	-0.0006	mg/L	0.00054	90.89%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	-14.3	-0.0002	mg/L	0.00024	-0.0002	mg/L	0.00024	103.19%
QC value within limits for Zn 213.857 Recovery = Not calculated								

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Ti 334.940†                65.3      0.0001 mg/L       0.00012      0.0001 mg/L       0.00012 136.75%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                 19.2      0.0156 mg/L       0.00232      0.0156 mg/L       0.00232  14.92%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†               239.3      0.0495 mg/L       0.00982      0.0495 mg/L       0.00982  19.85%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†                 48.6      0.0483 mg/L       0.07341      0.0483 mg/L       0.07341 152.09%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†                77.9     0.00231 mg/L      0.000320     0.00231 mg/L      0.000320  13.88%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†                84.1     0.00018 mg/L      0.000068     0.00018 mg/L      0.000068  37.96%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 112 **Autosampler Location: 142**
Sample ID: L729026-01 WG752044 **Date Collected: 11/3/2014 5:44:15 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-01 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: L729026-01 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3000108.0	109.7	mg/L	3.12				2.84%
Y 360.073 R	71249.3	10.90	mg/L	0.078				0.71%
Ag 328.068†	228.2	0.00088	mg/L	0.000798	0.4386	mg/kg	0.39882	90.92%
Al 308.215†	1448.8	3.657	mg/L	0.0984	1829	mg/kg	49.18	2.69%
As 188.979†	12.6	0.0095	mg/L	0.00589	4.741	mg/kg	2.9457	62.14%
Ba 233.527†	3400.4	0.0406	mg/L	0.00190	20.31	mg/kg	0.951	4.68%
Be 313.107†	381.9	0.00022	mg/L	0.000037	0.1085	mg/kg	0.01858	17.12%
Ca 315.887†	7623270.9	114.0	mg/L	7.81	57020	mg/kg	3904.09	6.85%
Cd 214.440†	-74.0	-0.0016	mg/L	0.00030	-0.8236	mg/kg	0.15076	18.31%
Co 228.616†	97.0	0.0027	mg/L	0.00018	1.340	mg/kg	0.0891	6.65%
Cr 205.560†	151.7	0.0057	mg/L	0.00038	2.859	mg/kg	0.1916	6.70%
Cu 324.752†	520.2	0.0021	mg/L	0.00093	1.044	mg/kg	0.4643	44.48%
Fe 238.863†	86955.2	4.890	mg/L	0.2907	2445	mg/kg	145.33	5.94%
Mg 279.077†	28463.7	4.232	mg/L	0.2564	2116	mg/kg	128.20	6.06%
Mn 257.610†	58540.3	0.0908	mg/L	0.00545	45.40	mg/kg	2.723	6.00%
Mo 202.031†	15.1	0.00093	mg/L	0.000726	0.4629	mg/kg	0.36284	78.38%
Ni 232.003†	139.3	0.0204	mg/L	0.00168	10.19	mg/kg	0.838	8.23%
Pb 220.353†	8.3	0.00466	mg/L	0.000548	2.328	mg/kg	0.2741	11.77%
Sb 206.836†	1.8	0.0009	mg/L	0.00259	0.4283	mg/kg	1.29679	302.74%
Se 196.026†	12.7	0.0114	mg/L	0.01009	5.724	mg/kg	5.0449	88.14%
Si 251.611†	84.6	0.1536	mg/L	0.01939	76.80	mg/kg	9.693	12.62%
Sn 189.927†	1.8	0.0019	mg/L	0.00042	0.9653	mg/kg	0.21071	21.83%
Tl 190.801†	10.2	0.0054	mg/L	0.00269	2.707	mg/kg	1.3471	49.76%
V 292.402†	1601.1	0.0153	mg/L	0.00080	7.628	mg/kg	0.3991	5.23%
Zn 213.857†	110.3	0.0038	mg/L	0.00105	1.923	mg/kg	0.5239	27.25%
Ti 334.940†	13158.6	0.0187	mg/L	0.00112	9.349	mg/kg	0.5582	5.97%
B 249.772†	27.8	0.0117	mg/L	0.00376	5.869	mg/kg	1.8804	32.04%
Na 589.592†	1986.4	0.3971	mg/L	0.02011	198.6	mg/kg	10.06	5.06%
K 766.490†	1086.0	1.074	mg/L	0.0467	536.8	mg/kg	23.36	4.35%
Li 670.784†	633.1	0.01855	mg/L	0.000937	9.277	mg/kg	0.4687	5.05%
Sr 407.771†	272320.0	0.5779	mg/L	0.01135	288.9	mg/kg	5.67	1.96%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 113 **Autosampler Location: 143**
Sample ID: L729026-02 WG752044 **Date Collected: 11/3/2014 5:49:19 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-02 WG752044

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: L729026-02 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2879577.6	105.3	mg/L	0.05				0.05%
Y 360.073 R	70619.0	10.80	mg/L	0.299				2.77%
Ag 328.068†	218.6	0.00018	mg/L	0.000256	0.08711	mg/kg	0.122950	141.14%
Al 308.215†	965.1	2.409	mg/L	0.0143	1158	mg/kg	6.85	0.59%
As 188.979†	10.7	0.0042	mg/L	0.00380	1.999	mg/kg	1.8272	91.43%
Ba 233.527†	2611.2	0.0311	mg/L	0.00009	14.93	mg/kg	0.045	0.30%
Be 313.107†	78.4	0.00003	mg/L	0.000037	0.01382	mg/kg	0.018008	130.34%
Ca 315.887†	14294762.5	213.8	mg/L	2.00	102800	mg/kg	962.08	0.94%
Cd 214.440†	-52.5	-0.0014	mg/L	0.00011	-0.6900	mg/kg	0.05297	7.68%
Co 228.616†	80.8	0.0017	mg/L	0.00002	0.8396	mg/kg	0.00916	1.09%
Cr 205.560†	117.6	0.0038	mg/L	0.00009	1.810	mg/kg	0.0429	2.37%
Cu 324.752†	305.8	-0.0004	mg/L	0.00039	-0.2057	mg/kg	0.18982	92.30%
Fe 238.863†	52154.1	2.930	mg/L	0.0504	1409	mg/kg	24.22	1.72%
Mg 279.077†	15384.3	2.280	mg/L	0.0393	1096	mg/kg	18.89	1.72%
Mn 257.610†	26898.1	0.0415	mg/L	0.00083	19.96	mg/kg	0.400	2.00%
Mo 202.031†	20.5	0.00078	mg/L	0.000311	0.3758	mg/kg	0.14973	39.85%
Ni 232.003†	91.4	0.0152	mg/L	0.00098	7.311	mg/kg	0.4712	6.44%
Pb 220.353†	-13.4	0.00114	mg/L	0.003901	0.5459	mg/kg	1.87567	343.62%
Sb 206.836†	4.6	0.0021	mg/L	0.00247	1.020	mg/kg	1.1892	116.64%
Se 196.026†	12.4	0.0079	mg/L	0.00660	3.819	mg/kg	3.1714	83.05%
Si 251.611†	196.4	0.3574	mg/L	0.00817	171.8	mg/kg	3.93	2.29%
Sn 189.927†	-8.0	0.0003	mg/L	0.00236	0.1550	mg/kg	1.13404	731.64%
Tl 190.801†	6.7	0.0012	mg/L	0.00448	0.5692	mg/kg	2.15418	378.46%
V 292.402†	1123.2	0.0106	mg/L	0.00010	5.102	mg/kg	0.0486	0.95%
Zn 213.857†	-357.5	-0.0010	mg/L	0.00028	-0.4651	mg/kg	0.13549	29.13%
Ti 334.940†	11280.9	0.0167	mg/L	0.00043	8.050	mg/kg	0.2071	2.57%
B 249.772†	21.9	0.0109	mg/L	0.00067	5.247	mg/kg	0.3244	6.18%
Na 589.592†	2265.6	0.4442	mg/L	0.01590	213.6	mg/kg	7.65	3.58%
K 766.490†	638.8	0.6253	mg/L	0.00566	300.6	mg/kg	2.72	0.90%
Li 670.784†	414.2	0.01196	mg/L	0.003158	5.748	mg/kg	1.5182	26.41%
Sr 407.771†	563673.6	1.197	mg/L	0.0231	575.3	mg/kg	11.09	1.93%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 114 **Autosampler Location: 144**
Sample ID: L729026-03 WG752044 **Date Collected: 11/3/2014 5:54:35 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.53 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-03 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: L729026-03 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2933856.4	107.3	mg/L	0.92				0.86%
Y 360.073 R	72342.0	11.07	mg/L	0.204				1.84%
Ag 328.068†	262.2	0.00095	mg/L	0.000514	0.4458	mg/kg	0.24228	54.35%
Al 308.215†	1052.5	2.648	mg/L	0.0293	1249	mg/kg	13.82	1.11%
As 188.979†	8.0	0.0042	mg/L	0.00467	1.958	mg/kg	2.2005	112.37%
Ba 233.527†	2694.5	0.0322	mg/L	0.00062	15.17	mg/kg	0.293	1.93%
Be 313.107†	243.1	0.00013	mg/L	0.000023	0.06296	mg/kg	0.010712	17.01%
Ca 315.887†	8466751.6	126.6	mg/L	0.89	59740	mg/kg	417.84	0.70%
Cd 214.440†	-61.4	-0.0014	mg/L	0.00016	-0.6602	mg/kg	0.07435	11.26%
Co 228.616†	76.5	0.0020	mg/L	0.00016	0.9256	mg/kg	0.07429	8.03%
Cr 205.560†	126.1	0.0046	mg/L	0.00040	2.164	mg/kg	0.1901	8.78%
Cu 324.752†	208.1	-0.0000	mg/L	0.00017	-0.0072	mg/kg	0.08104	>999.9%
Fe 238.863†	61264.3	3.444	mg/L	0.0005	1625	mg/kg	0.22	0.01%
Mg 279.077†	21291.1	3.164	mg/L	0.0107	1492	mg/kg	5.05	0.34%
Mn 257.610†	44325.7	0.0687	mg/L	0.00021	32.41	mg/kg	0.098	0.30%
Mo 202.031†	19.1	0.00116	mg/L	0.000712	0.5451	mg/kg	0.33580	61.61%
Ni 232.003†	107.8	0.0163	mg/L	0.00064	7.667	mg/kg	0.3041	3.97%
Pb 220.353†	-9.5	0.00012	mg/L	0.003225	0.05736	mg/kg	1.521244	>999.9%
Sb 206.836†	-6.1	-0.0031	mg/L	0.00397	-1.479	mg/kg	1.8720	126.58%
Se 196.026†	7.5	0.0056	mg/L	0.00932	2.656	mg/kg	4.3966	165.54%
Si 251.611†	148.8	0.2720	mg/L	0.01629	128.3	mg/kg	7.68	5.99%
Sn 189.927†	-10.3	-0.0008	mg/L	0.00141	-0.3912	mg/kg	0.66708	170.53%
Tl 190.801†	8.2	0.0037	mg/L	0.00206	1.758	mg/kg	0.9698	55.15%
V 292.402†	1059.9	0.0100	mg/L	0.00017	4.732	mg/kg	0.0791	1.67%
Zn 213.857†	-134.0	0.0004	mg/L	0.00009	0.1936	mg/kg	0.04028	20.81%
Ti 334.940†	8624.7	0.0125	mg/L	0.00019	5.914	mg/kg	0.0902	1.52%
B 249.772†	19.8	0.0084	mg/L	0.00014	3.947	mg/kg	0.0666	1.69%
Na 589.592†	1849.0	0.3676	mg/L	0.01220	173.4	mg/kg	5.75	3.32%
K 766.490†	710.4	0.7001	mg/L	0.06386	330.3	mg/kg	30.12	9.12%
Li 670.784†	475.8	0.01389	mg/L	0.001665	6.552	mg/kg	0.7855	11.99%
Sr 407.771†	364644.1	0.7742	mg/L	0.01894	365.2	mg/kg	8.93	2.45%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 115 **Autosampler Location: 145**
Sample ID: L729026-05 WG752044 **Date Collected: 11/3/2014 5:59:51 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-05 WG752044

Analyte	Back Pressure	Flow
All	212.0 kPa	0.55 L/min

Mean Data: L729026-05 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2890350.7	105.7	mg/L	2.02				1.91%
Y 360.073 R	70610.1	10.80	mg/L	0.192				1.78%
Ag 328.068†	305.8	0.00045	mg/L	0.000788	0.2155	mg/kg	0.37906	175.86%
Al 308.215†	800.2	1.983	mg/L	0.0553	953.2	mg/kg	26.60	2.79%
As 188.979†	12.9	0.0054	mg/L	0.00633	2.612	mg/kg	3.0425	116.50%
Ba 233.527†	3950.2	0.0471	mg/L	0.00123	22.65	mg/kg	0.592	2.61%
Be 313.107†	-36.8	-0.00005	mg/L	0.000032	-0.02228	mg/kg	0.015464	69.41%
Ca 315.887†	16589293.3	248.1	mg/L	4.14	119300	mg/kg	1989.78	1.67%
Cd 214.440†	-64.5	-0.0016	mg/L	0.00023	-0.7841	mg/kg	0.11057	14.10%
Co 228.616†	69.8	0.0013	mg/L	0.00019	0.6028	mg/kg	0.09345	15.50%
Cr 205.560†	107.0	0.0031	mg/L	0.00008	1.507	mg/kg	0.0374	2.48%
Cu 324.752†	648.8	0.0012	mg/L	0.00042	0.5661	mg/kg	0.20144	35.58%
Fe 238.863†	37711.7	2.117	mg/L	0.0037	1018	mg/kg	1.79	0.18%
Mg 279.077†	48542.5	7.218	mg/L	0.0317	3470	mg/kg	15.26	0.44%
Mn 257.610†	28078.1	0.0432	mg/L	0.00004	20.76	mg/kg	0.017	0.08%
Mo 202.031†	0.2	-0.00123	mg/L	0.000518	-0.5900	mg/kg	0.24905	42.21%
Ni 232.003†	104.9	0.0175	mg/L	0.00206	8.392	mg/kg	0.9895	11.79%
Pb 220.353†	-9.4	0.00321	mg/L	0.003432	1.546	mg/kg	1.6499	106.75%
Sb 206.836†	-8.2	-0.0043	mg/L	0.00173	-2.089	mg/kg	0.8338	39.92%
Se 196.026†	17.8	0.0117	mg/L	0.01089	5.638	mg/kg	5.2351	92.86%
Si 251.611†	201.5	0.3649	mg/L	0.02357	175.4	mg/kg	11.33	6.46%
Sn 189.927†	-10.2	-0.0001	mg/L	0.00179	-0.0337	mg/kg	0.86223	>999.9%
Tl 190.801†	9.8	0.0029	mg/L	0.00305	1.379	mg/kg	1.4647	106.18%
V 292.402†	1443.9	0.0138	mg/L	0.00043	6.623	mg/kg	0.2070	3.12%
Zn 213.857†	-438.3	-0.0013	mg/L	0.00023	-0.6427	mg/kg	0.10985	17.09%
Ti 334.940†	11633.9	0.0173	mg/L	0.00001	8.296	mg/kg	0.0034	0.04%
B 249.772†	17.4	0.0090	mg/L	0.00138	4.308	mg/kg	0.6629	15.39%
Na 589.592†	4457.9	0.8935	mg/L	0.00079	429.6	mg/kg	0.38	0.09%
K 766.490†	755.1	0.7393	mg/L	0.04364	355.5	mg/kg	20.98	5.90%
Li 670.784†	307.2	0.00872	mg/L	0.002220	4.191	mg/kg	1.0672	25.46%
Sr 407.771†	1556311.2	3.309	mg/L	0.0552	1591	mg/kg	26.55	1.67%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 116 **Autosampler Location: 146**
Sample ID: L729026-06 WG752044 **Date Collected: 11/3/2014 6:05:08 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.55 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-06 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: L729026-06 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2984444.4	109.1	mg/L	3.56				3.26%
Y 360.073 R	71327.0	10.91	mg/L	0.222				2.04%
Ag 328.068†	330.6	0.00098	mg/L	0.000352	0.4436	mg/kg	0.16002	36.07%
Al 308.215†	1060.4	2.655	mg/L	0.1205	1207	mg/kg	54.77	4.54%
As 188.979†	11.7	0.0060	mg/L	0.00461	2.722	mg/kg	2.0976	77.05%
Ba 233.527†	3415.4	0.0407	mg/L	0.00152	18.51	mg/kg	0.689	3.72%
Be 313.107†	157.6	0.00008	mg/L	0.000007	0.03526	mg/kg	0.003395	9.63%
Ca 315.887†	12915374.3	193.2	mg/L	1.85	87810	mg/kg	842.99	0.96%
Cd 214.440†	-73.4	-0.0017	mg/L	0.00026	-0.7907	mg/kg	0.11865	15.01%
Co 228.616†	87.7	0.0021	mg/L	0.00034	0.9339	mg/kg	0.15365	16.45%
Cr 205.560†	139.7	0.0048	mg/L	0.00045	2.182	mg/kg	0.2049	9.39%
Cu 324.752†	348.9	0.0001	mg/L	0.00069	0.0455	mg/kg	0.31255	686.80%
Fe 238.863†	64224.0	3.609	mg/L	0.0348	1641	mg/kg	15.81	0.96%
Mg 279.077†	18982.7	2.817	mg/L	0.0280	1280	mg/kg	12.73	0.99%
Mn 257.610†	43129.5	0.0668	mg/L	0.00062	30.36	mg/kg	0.282	0.93%
Mo 202.031†	6.0	-0.00036	mg/L	0.000719	-0.1626	mg/kg	0.32666	200.86%
Ni 232.003†	126.6	0.0196	mg/L	0.00261	8.925	mg/kg	1.1852	13.28%
Pb 220.353†	0.2	0.00437	mg/L	0.001224	1.985	mg/kg	0.5565	28.03%
Sb 206.836†	-6.7	-0.0035	mg/L	0.00410	-1.589	mg/kg	1.8621	117.18%
Se 196.026†	9.9	0.0064	mg/L	0.00831	2.901	mg/kg	3.7773	130.21%
Si 251.611†	231.2	0.4227	mg/L	0.01760	192.1	mg/kg	8.00	4.16%
Sn 189.927†	-14.8	-0.0013	mg/L	0.00207	-0.5720	mg/kg	0.94141	164.57%
Tl 190.801†	10.5	0.0043	mg/L	0.00182	1.932	mg/kg	0.8295	42.93%
V 292.402†	1119.0	0.0105	mg/L	0.00046	4.790	mg/kg	0.2094	4.37%
Zn 213.857†	-181.0	0.0013	mg/L	0.00010	0.5860	mg/kg	0.04720	8.05%
Ti 334.940†	10003.6	0.0148	mg/L	0.00027	6.745	mg/kg	0.1242	1.84%
B 249.772†	22.6	0.0101	mg/L	0.00277	4.573	mg/kg	1.2603	27.56%
Na 589.592†	3629.2	0.7283	mg/L	0.02115	331.0	mg/kg	9.61	2.90%
K 766.490†	875.3	0.8611	mg/L	0.10381	391.4	mg/kg	47.19	12.06%
Li 670.784†	256.0	0.00730	mg/L	0.002079	3.317	mg/kg	0.9448	28.48%
Sr 407.771†	556019.7	1.181	mg/L	0.0148	536.6	mg/kg	6.73	1.25%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 117 **Autosampler Location: 147**
Sample ID: L729030-01 WG752044 **Date Collected: 11/3/2014 6:10:25 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.55 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729030-01 WG752044

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: L729030-01 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3001917.5	109.8	mg/L	0.24				0.22%
Y 360.073 R	71815.8	10.99	mg/L	0.211				1.92%
Ag 328.068†	350.3	0.00131	mg/L	0.000516	0.5939	mg/kg	0.23435	39.46%
Al 308.215†	1136.8	2.856	mg/L	0.0488	1298	mg/kg	22.16	1.71%
As 188.979†	11.5	0.0069	mg/L	0.00367	3.156	mg/kg	1.6698	52.91%
Ba 233.527†	2922.8	0.0349	mg/L	0.00053	15.84	mg/kg	0.240	1.52%
Be 313.107†	142.7	0.00007	mg/L	0.000023	0.03214	mg/kg	0.010458	32.54%
Ca 315.887†	10463144.1	156.5	mg/L	3.56	71140	mg/kg	1619.00	2.28%
Cd 214.440†	-75.9	-0.0017	mg/L	0.00011	-0.7706	mg/kg	0.04998	6.49%
Co 228.616†	83.1	0.0021	mg/L	0.00044	0.9348	mg/kg	0.20015	21.41%
Cr 205.560†	145.6	0.0052	mg/L	0.00024	2.385	mg/kg	0.1106	4.64%
Cu 324.752†	260.5	-0.0000	mg/L	0.00042	-0.0151	mg/kg	0.19010	>999.9%
Fe 238.863†	66017.6	3.711	mg/L	0.0616	1687	mg/kg	28.00	1.66%
Mg 279.077†	31026.6	4.613	mg/L	0.0713	2097	mg/kg	32.39	1.55%
Mn 257.610†	28594.0	0.0441	mg/L	0.00071	20.06	mg/kg	0.323	1.61%
Mo 202.031†	8.2	0.00004	mg/L	0.000451	0.01922	mg/kg	0.204975	>999.9%
Ni 232.003†	135.1	0.0203	mg/L	0.00145	9.228	mg/kg	0.6572	7.12%
Pb 220.353†	-11.2	0.00035	mg/L	0.002595	0.1593	mg/kg	1.17934	740.49%
Sb 206.836†	-2.3	-0.0012	mg/L	0.00172	-0.5644	mg/kg	0.78081	138.34%
Se 196.026†	4.4	0.0022	mg/L	0.00882	0.9882	mg/kg	4.00963	405.77%
Si 251.611†	150.1	0.2734	mg/L	0.00645	124.3	mg/kg	2.93	2.36%
Sn 189.927†	-16.6	-0.0020	mg/L	0.00086	-0.8892	mg/kg	0.38871	43.72%
Tl 190.801†	6.4	0.0020	mg/L	0.00316	0.8892	mg/kg	1.43807	161.72%
V 292.402†	1795.3	0.0172	mg/L	0.00017	7.824	mg/kg	0.0773	0.99%
Zn 213.857†	-88.6	0.0018	mg/L	0.00012	0.8390	mg/kg	0.05313	6.33%
Ti 334.940†	10733.7	0.0156	mg/L	0.00016	7.080	mg/kg	0.0707	1.00%
B 249.772†	21.9	0.0094	mg/L	0.00201	4.266	mg/kg	0.9127	21.39%
Na 589.592†	1051.8	0.1994	mg/L	0.02143	90.63	mg/kg	9.739	10.75%
K 766.490†	881.9	0.8691	mg/L	0.04926	395.1	mg/kg	22.39	5.67%
Li 670.784†	985.5	0.02893	mg/L	0.001436	13.15	mg/kg	0.653	4.96%
Sr 407.771†	575887.9	1.223	mg/L	0.0277	556.1	mg/kg	12.57	2.26%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 118 **Autosampler Location: 148**
Sample ID: L729030-02 WG752044 **Date Collected: 11/3/2014 6:15:40 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.54 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729030-02 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: L729030-02 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3008050.6	110.0	mg/L	0.65				0.59%
Y 360.073 R	75313.8	11.52	mg/L	0.480				4.17%
Ag 328.068†	229.5	0.00029	mg/L	0.000218	0.1348	mg/kg	0.10077	74.74%
Al 308.215†	598.0	1.478	mg/L	0.0055	684.1	mg/kg	2.56	0.37%
As 188.979†	17.8	0.0123	mg/L	0.00365	5.681	mg/kg	1.6890	29.73%
Ba 233.527†	2343.6	0.0279	mg/L	0.00057	12.90	mg/kg	0.263	2.04%
Be 313.107†	25.9	-0.00000	mg/L	0.000009	-0.00093	mg/kg	0.003981	428.02%
Ca 315.887†	13791465.8	206.3	mg/L	2.58	95510	mg/kg	1193.97	1.25%
Cd 214.440†	-74.9	-0.0017	mg/L	0.00002	-0.8075	mg/kg	0.01058	1.31%
Co 228.616†	88.3	0.0020	mg/L	0.00019	0.9341	mg/kg	0.08963	9.60%
Cr 205.560†	117.8	0.0038	mg/L	0.00006	1.769	mg/kg	0.0278	1.57%
Cu 324.752†	342.4	-0.0001	mg/L	0.00017	-0.0589	mg/kg	0.07908	134.37%
Fe 238.863†	48094.6	2.702	mg/L	0.0270	1251	mg/kg	12.50	1.00%
Mg 279.077†	16732.0	2.481	mg/L	0.0225	1149	mg/kg	10.40	0.91%
Mn 257.610†	29831.1	0.0461	mg/L	0.00033	21.34	mg/kg	0.151	0.71%
Mo 202.031†	47.0	0.00318	mg/L	0.001438	1.471	mg/kg	0.6657	45.27%
Ni 232.003†	121.9	0.0191	mg/L	0.00084	8.851	mg/kg	0.3873	4.38%
Pb 220.353†	-3.1	0.00379	mg/L	0.001086	1.755	mg/kg	0.5027	28.65%
Sb 206.836†	-1.2	-0.0007	mg/L	0.00177	-0.3402	mg/kg	0.81747	240.26%
Se 196.026†	11.4	0.0070	mg/L	0.01389	3.260	mg/kg	6.4296	197.22%
Si 251.611†	206.1	0.3757	mg/L	0.00283	173.9	mg/kg	1.31	0.75%
Sn 189.927†	-12.7	-0.0008	mg/L	0.00178	-0.3697	mg/kg	0.82379	222.85%
Tl 190.801†	10.6	0.0041	mg/L	0.00274	1.892	mg/kg	1.2668	66.96%
V 292.402†	1666.2	0.0160	mg/L	0.00016	7.397	mg/kg	0.0753	1.02%
Zn 213.857†	-338.1	-0.0008	mg/L	0.00028	-0.3671	mg/kg	0.12982	35.37%
Ti 334.940†	10144.3	0.0151	mg/L	0.00025	7.001	mg/kg	0.1169	1.67%
B 249.772†	14.1	0.0051	mg/L	0.00189	2.366	mg/kg	0.8761	37.03%
Na 589.592†	3668.7	0.7352	mg/L	0.00720	340.4	mg/kg	3.33	0.98%
K 766.490†	420.5	0.4089	mg/L	0.05518	189.3	mg/kg	25.55	13.50%
Li 670.784†	192.1	0.00539	mg/L	0.002054	2.497	mg/kg	0.9507	38.08%
Sr 407.771†	493959.7	1.048	mg/L	0.0200	485.3	mg/kg	9.26	1.91%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 119 **Autosampler Location: 149**
Sample ID: L729030-04 WG752044 **Date Collected: 11/3/2014 6:20:55 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.51 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729030-04 WG752044

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: L729030-04 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2951278.3	107.9	mg/L	1.36				1.26%
Y 360.073 R	73538.7	11.25	mg/L	0.274				2.44%
Ag 328.068†	280.4	0.00072	mg/L	0.000526	0.3539	mg/kg	0.25793	72.88%
Al 308.215†	1423.1	3.576	mg/L	0.1065	1753	mg/kg	52.22	2.98%
As 188.979†	15.6	0.0101	mg/L	0.01472	4.933	mg/kg	7.2168	146.30%
Ba 233.527†	7728.9	0.0925	mg/L	0.00078	45.35	mg/kg	0.382	0.84%
Be 313.107†	265.0	0.00014	mg/L	0.000017	0.06964	mg/kg	0.008491	12.19%
Ca 315.887†	13063975.8	195.4	mg/L	0.81	95790	mg/kg	396.17	0.41%
Cd 214.440†	-58.4	-0.0016	mg/L	0.00018	-0.7806	mg/kg	0.08633	11.06%
Co 228.616†	104.7	0.0026	mg/L	0.00049	1.273	mg/kg	0.2405	18.89%
Cr 205.560†	149.6	0.0052	mg/L	0.00030	2.545	mg/kg	0.1451	5.70%
Cu 324.752†	531.2	0.0012	mg/L	0.00010	0.6086	mg/kg	0.05112	8.40%
Fe 238.863†	83514.1	4.694	mg/L	0.0546	2301	mg/kg	26.74	1.16%
Mg 279.077†	15547.9	2.304	mg/L	0.0269	1130	mg/kg	13.18	1.17%
Mn 257.610†	73928.3	0.1147	mg/L	0.00139	56.24	mg/kg	0.679	1.21%
Mo 202.031†	22.2	0.00111	mg/L	0.000335	0.5444	mg/kg	0.16404	30.13%
Ni 232.003†	146.5	0.0224	mg/L	0.00340	10.97	mg/kg	1.666	15.19%
Pb 220.353†	-9.3	0.00171	mg/L	0.001596	0.8360	mg/kg	0.78220	93.57%
Sb 206.836†	-5.9	-0.0031	mg/L	0.00341	-1.512	mg/kg	1.6692	110.42%
Se 196.026†	3.0	0.0004	mg/L	0.00728	0.1858	mg/kg	3.56975	>999.9%
Si 251.611†	290.7	0.5332	mg/L	0.01708	261.3	mg/kg	8.37	3.20%
Sn 189.927†	-19.6	-0.0021	mg/L	0.00265	-1.054	mg/kg	1.2997	123.36%
Tl 190.801†	5.0	0.0003	mg/L	0.00190	0.1595	mg/kg	0.93333	585.28%
V 292.402†	1617.3	0.0154	mg/L	0.00010	7.528	mg/kg	0.0506	0.67%
Zn 213.857†	6.5	0.0042	mg/L	0.00044	2.075	mg/kg	0.2169	10.45%
Ti 334.940†	14357.1	0.0209	mg/L	0.00030	10.24	mg/kg	0.145	1.42%
B 249.772†	25.2	0.0099	mg/L	0.00264	4.837	mg/kg	1.2944	26.76%
Na 589.592†	1816.4	0.3531	mg/L	0.00661	173.1	mg/kg	3.24	1.87%
K 766.490†	1155.4	1.139	mg/L	0.0245	558.4	mg/kg	12.01	2.15%
Li 670.784†	219.4	0.00621	mg/L	0.000878	3.045	mg/kg	0.4304	14.14%
Sr 407.771†	333887.3	0.7077	mg/L	0.00116	346.9	mg/kg	0.57	0.16%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 4:42:09 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 120 **Autosampler Location: 150**
Sample ID: L729030-05 WG752044 **Date Collected: 11/3/2014 6:26:04 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.51 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729030-05 WG752044

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: L729030-05 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2957646.4	108.2	mg/L	0.64				0.59%
Y 360.073 R	71503.5	10.94	mg/L	0.246				2.25%
Ag 328.068†	373.3	0.00097	mg/L	0.000298	0.4735	mg/kg	0.14584	30.80%
Al 308.215†	1270.5	3.178	mg/L	0.0549	1558	mg/kg	26.93	1.73%
As 188.979†	17.7	0.0107	mg/L	0.00819	5.230	mg/kg	4.0169	76.81%
Ba 233.527†	5270.1	0.0629	mg/L	0.00052	30.85	mg/kg	0.253	0.82%
Be 313.107†	241.1	0.00012	mg/L	0.000033	0.06024	mg/kg	0.016073	26.68%
Ca 315.887†	16391863.3	245.2	mg/L	2.61	120200	mg/kg	1278.65	1.06%
Cd 214.440†	-63.0	-0.0018	mg/L	0.00013	-0.8675	mg/kg	0.06541	7.54%
Co 228.616†	97.4	0.0022	mg/L	0.00012	1.056	mg/kg	0.0582	5.51%
Cr 205.560†	183.9	0.0064	mg/L	0.00037	3.125	mg/kg	0.1827	5.85%
Cu 324.752†	427.0	0.0000	mg/L	0.00036	0.0160	mg/kg	0.17783	>999.9%
Fe 238.863†	80850.5	4.544	mg/L	0.0609	2227	mg/kg	29.86	1.34%
Mg 279.077†	22757.0	3.376	mg/L	0.0415	1655	mg/kg	20.33	1.23%
Mn 257.610†	52314.1	0.0810	mg/L	0.00103	39.71	mg/kg	0.505	1.27%
Mo 202.031†	12.8	-0.00000	mg/L	0.000830	-0.00188	mg/kg	0.406659	>999.9%
Ni 232.003†	132.5	0.0212	mg/L	0.00046	10.39	mg/kg	0.225	2.16%
Pb 220.353†	-6.2	0.00373	mg/L	0.000544	1.830	mg/kg	0.2668	14.58%
Sb 206.836†	2.5	0.0010	mg/L	0.00339	0.5063	mg/kg	1.66063	328.01%
Se 196.026†	4.4	0.0004	mg/L	0.01061	0.2053	mg/kg	5.19963	>999.9%
Si 251.611†	316.0	0.5782	mg/L	0.01508	283.4	mg/kg	7.39	2.61%
Sn 189.927†	-16.2	-0.0010	mg/L	0.00166	-0.5009	mg/kg	0.81605	162.92%
Tl 190.801†	4.1	-0.0011	mg/L	0.00163	-0.5186	mg/kg	0.79681	153.63%
V 292.402†	1257.6	0.0118	mg/L	0.00008	5.773	mg/kg	0.0372	0.64%
Zn 213.857†	-28.5	0.0049	mg/L	0.00038	2.417	mg/kg	0.1849	7.65%
Ti 334.940†	11996.0	0.0179	mg/L	0.00053	8.761	mg/kg	0.2581	2.95%
B 249.772†	23.7	0.0088	mg/L	0.00078	4.320	mg/kg	0.3830	8.86%
Na 589.592†	3871.4	0.7725	mg/L	0.02239	378.7	mg/kg	10.97	2.90%
K 766.490†	802.4	0.7865	mg/L	0.02964	385.5	mg/kg	14.53	3.77%
Li 670.784†	302.2	0.00859	mg/L	0.002164	4.212	mg/kg	1.0610	25.19%
Sr 407.771†	506407.7	1.074	mg/L	0.0162	526.5	mg/kg	7.96	1.51%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 110 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/3/2014 7:24:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2929884.6	107.1 mg/L	0.62			0.58%
Y 360.073 R	68249.0	10.44 mg/L	0.043			0.41%
Ag 328.068†	161957.8	0.9470 mg/L	0.00055	0.9470 mg/L	0.00055	0.06%
QC value within limits for Ag 328.068 Recovery = 94.70%						
Al 308.215†	3908.0	9.902 mg/L	0.1922	9.902 mg/L	0.1922	1.94%
QC value within limits for Al 308.215 Recovery = 99.02%						
As 188.979†	1782.6	1.937 mg/L	0.0229	1.937 mg/L	0.0229	1.18%
QC value within limits for As 188.979 Recovery = 96.87%						
Ba 233.527†	43234.8	0.5188 mg/L	0.00567	0.5188 mg/L	0.00567	1.09%
QC value within limits for Ba 233.527 Recovery = 103.75%						
Be 313.107†	327857.6	0.1939 mg/L	0.00021	0.1939 mg/L	0.00021	0.11%
QC value within limits for Be 313.107 Recovery = 96.94%						
Ca 315.887†	3277163.6	49.03 mg/L	0.096	49.03 mg/L	0.096	0.20%
QC value within limits for Ca 315.887 Recovery = 98.05%						
Cd 214.440†	33516.0	0.4881 mg/L	0.00209	0.4881 mg/L	0.00209	0.43%
QC value within limits for Cd 214.440 Recovery = 97.63%						
Co 228.616†	32020.8	1.036 mg/L	0.0114	1.036 mg/L	0.0114	1.11%
QC value within limits for Co 228.616 Recovery = 103.55%						
Cr 205.560†	24106.6	1.020 mg/L	0.0112	1.020 mg/L	0.0112	1.10%
QC value within limits for Cr 205.560 Recovery = 102.03%						
Cu 324.752†	310841.1	1.886 mg/L	0.0024	1.886 mg/L	0.0024	0.13%
QC value within limits for Cu 324.752 Recovery = 94.28%						
Fe 238.863†	169154.9	9.515 mg/L	0.0436	9.515 mg/L	0.0436	0.46%
QC value within limits for Fe 238.863 Recovery = 95.15%						
Mg 279.077†	64544.1	9.607 mg/L	0.0244	9.607 mg/L	0.0244	0.25%
QC value within limits for Mg 279.077 Recovery = 96.07%						
Mn 257.610†	636366.8	0.9901 mg/L	0.00124	0.9901 mg/L	0.00124	0.13%
QC value within limits for Mn 257.610 Recovery = 99.01%						
Mo 202.031†	5477.4	0.4866 mg/L	0.00582	0.4866 mg/L	0.00582	1.19%
QC value within limits for Mo 202.031 Recovery = 97.33%						
Ni 232.003†	15291.8	2.028 mg/L	0.0211	2.028 mg/L	0.0211	1.04%
QC value within limits for Ni 232.003 Recovery = 101.39%						
Pb 220.353†	1781.0	0.4951 mg/L	0.00191	0.4951 mg/L	0.00191	0.39%
QC value within limits for Pb 220.353 Recovery = 99.01%						
Sb 206.836†	3885.7	1.938 mg/L	0.0240	1.938 mg/L	0.0240	1.24%
QC value within limits for Sb 206.836 Recovery = 96.89%						
Se 196.026†	2067.9	1.943 mg/L	0.0180	1.943 mg/L	0.0180	0.93%
QC value within limits for Se 196.026 Recovery = 97.16%						
Si 251.611†	1083.3	2.006 mg/L	0.0427	2.006 mg/L	0.0427	2.13%
QC value within limits for Si 251.611 Recovery = 100.29%						
Sn 189.927†	8762.0	1.941 mg/L	0.0235	1.941 mg/L	0.0235	1.21%
QC value within limits for Sn 189.927 Recovery = 97.04%						
Tl 190.801†	2792.1	1.961 mg/L	0.0211	1.961 mg/L	0.0211	1.08%
QC value within limits for Tl 190.801 Recovery = 98.07%						
V 292.402†	97940.1	0.9627 mg/L	0.00116	0.9627 mg/L	0.00116	0.12%
QC value within limits for V 292.402 Recovery = 96.27%						
Zn 213.857†	172860.3	2.820 mg/L	0.0111	2.820 mg/L	0.0111	0.39%
QC value within limits for Zn 213.857 Recovery = 94.01%						

Ti 334.940†	709775.0	0.9816 mg/L	0.00099	0.9816 mg/L	0.00099	0.10%
QC value within limits for Ti 334.940 Recovery = 98.16%						
B 249.772†	2386.6	1.917 mg/L	0.0424	1.917 mg/L	0.0424	2.21%
QC value within limits for B 249.772 Recovery = 95.85%						
Na 589.592†	253515.7	52.40 mg/L	0.295	52.40 mg/L	0.295	0.56%
QC value within limits for Na 589.592 Recovery = 104.79%						
K 766.490†	49298.2	48.95 mg/L	0.206	48.95 mg/L	0.206	0.42%
QC value within limits for K 766.490 Recovery = 97.91%						
Li 670.784†	52804.7	1.563 mg/L	0.0057	1.563 mg/L	0.0057	0.37%
QC value within limits for Li 670.784 Recovery = 104.17%						
Sr 407.771†	503909.7	1.072 mg/L	0.0028	1.072 mg/L	0.0028	0.26%
QC value within limits for Sr 407.771 Recovery = 107.19%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 111 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/3/2014 7:29:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3103942.9	113.5	mg/L	2.69				2.37%
Y 360.073 R	71647.7	10.96	mg/L	0.073				0.67%
Ag 328.068†	510.5	0.00298	mg/L	0.000955	0.00298	mg/L	0.000955	32.07%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-7.1	-0.0180	mg/L	0.00943	-0.0180	mg/L	0.00943	52.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	6.5	0.0071	mg/L	0.00280	0.0071	mg/L	0.00280	39.24%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	19.9	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	32.60%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-68.2	-0.00004	mg/L	0.000005	-0.00004	mg/L	0.000005	13.13%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	5717.1	0.08552	mg/L	0.003963	0.08552	mg/L	0.003963	4.63%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-97.3	-0.0014	mg/L	0.00020	-0.0014	mg/L	0.00020	14.26%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	24.3	0.0008	mg/L	0.00030	0.0008	mg/L	0.00030	38.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	19.5	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	31.51%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	237.1	0.0014	mg/L	0.00026	0.0014	mg/L	0.00026	17.76%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	-30.5	-0.0017	mg/L	0.00095	-0.0017	mg/L	0.00095	55.04%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-59.0	-0.0088	mg/L	0.00113	-0.0088	mg/L	0.00113	12.88%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	15.4	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	293.78%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-10.0	-0.00089	mg/L	0.000395	-0.00089	mg/L	0.000395	44.63%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	113.0	0.0150	mg/L	0.00268	0.0150	mg/L	0.00268	17.89%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-22.2	-0.00616	mg/L	0.002140	-0.00616	mg/L	0.002140	34.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-9.2	-0.0046	mg/L	0.00119	-0.0046	mg/L	0.00119	25.99%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-12.2	-0.0114	mg/L	0.00725	-0.0114	mg/L	0.00725	63.46%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-8.4	-0.0155	mg/L	0.00752	-0.0155	mg/L	0.00752	48.60%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	5.0	0.0011	mg/L	0.00090	0.0011	mg/L	0.00090	81.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	4.1	0.0029	mg/L	0.00259	0.0029	mg/L	0.00259	89.08%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	11.3	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	141.85%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	14.7	0.0002	mg/L	0.00020	0.0002	mg/L	0.00020	83.68%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	259.9	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	31.93%
QC value within limits for Ti 334.940 Recovery = Not calculated						
B 249.772†	17.3	0.0141 mg/L	0.00277	0.0141 mg/L	0.00277	19.69%
QC value within limits for B 249.772 Recovery = Not calculated						
Na 589.592†	247.5	0.0512 mg/L	0.01591	0.0512 mg/L	0.01591	31.10%
QC value within limits for Na 589.592 Recovery = Not calculated						
K 766.490†	71.9	0.0714 mg/L	0.11931	0.0714 mg/L	0.11931	167.00%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	10.4	0.00031 mg/L	0.001649	0.00031 mg/L	0.001649	535.75%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 407.771†	245.4	0.00052 mg/L	0.000055	0.00052 mg/L	0.000055	10.62%
QC value within limits for Sr 407.771 Recovery = Not calculated						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 117 **Autosampler Location: 151**
Sample ID: L729032-01 WG752044 **Date Collected: 11/3/2014 8:00:33 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729032-01 WG752044

Analyte	Back Pressure	Flow
All	207.0 kPa	0.55 L/min

Mean Data: L729032-01 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2998476.9	109.6	mg/L	1.17				1.06%
Y 360.073 R	70310.8	10.76	mg/L	0.146				1.35%
Ag 328.068†	466.2	0.00098	mg/L	0.000669	0.4713	mg/kg	0.32177	68.28%
Al 308.215†	122.6	0.2496	mg/L	0.02270	120.0	mg/kg	10.92	9.10%
As 188.979†	19.1	0.0103	mg/L	0.00500	4.965	mg/kg	2.4020	48.37%
Ba 233.527†	1979.6	0.0234	mg/L	0.00039	11.25	mg/kg	0.187	1.67%
Be 313.107†	-289.3	-0.00020	mg/L	0.000032	-0.09532	mg/kg	0.015201	15.95%
Ca 315.887†	20774560.8	310.8	mg/L	5.13	149400	mg/kg	2468.65	1.65%
Cd 214.440†	-99.3	-0.0022	mg/L	0.00010	-1.055	mg/kg	0.0499	4.73%
Co 228.616†	44.4	0.0002	mg/L	0.00014	0.0821	mg/kg	0.06823	83.14%
Cr 205.560†	70.0	0.0013	mg/L	0.00013	0.6082	mg/kg	0.06061	9.97%
Cu 324.752†	128.3	-0.0027	mg/L	0.00022	-1.305	mg/kg	0.1066	8.17%
Fe 238.863†	9116.4	0.5069	mg/L	0.00901	243.7	mg/kg	4.33	1.78%
Mg 279.077†	9163.3	1.350	mg/L	0.0099	648.9	mg/kg	4.78	0.74%
Mn 257.610†	3881.0	0.0057	mg/L	0.00013	2.720	mg/kg	0.0621	2.28%
Mo 202.031†	1.8	-0.00149	mg/L	0.000480	-0.7187	mg/kg	0.23073	32.11%
Ni 232.003†	137.6	0.0224	mg/L	0.00266	10.78	mg/kg	1.280	11.87%
Pb 220.353†	-30.1	-0.00105	mg/L	0.002159	-0.5069	mg/kg	1.03821	204.80%
Sb 206.836†	-4.6	-0.0026	mg/L	0.00344	-1.271	mg/kg	1.6529	130.07%
Se 196.026†	8.1	0.0004	mg/L	0.00980	0.2114	mg/kg	4.70930	>999.9%
Si 251.611†	109.8	0.1936	mg/L	0.01557	93.09	mg/kg	7.486	8.04%
Sn 189.927†	-13.3	-0.0004	mg/L	0.00068	-0.1919	mg/kg	0.32893	171.41%
Tl 190.801†	11.6	0.0030	mg/L	0.00299	1.451	mg/kg	1.4365	99.02%
V 292.402†	492.4	0.0045	mg/L	0.00013	2.161	mg/kg	0.0615	2.84%
Zn 213.857†	-745.2	-0.0045	mg/L	0.00039	-2.148	mg/kg	0.1858	8.65%
Ti 334.940†	4166.7	0.0075	mg/L	0.00009	3.604	mg/kg	0.0415	1.15%
B 249.772†	6.9	0.0038	mg/L	0.00118	1.833	mg/kg	0.5676	30.97%
Na 589.592†	1505.3	0.2769	mg/L	0.01293	133.1	mg/kg	6.22	4.67%
K 766.490†	120.5	0.1066	mg/L	0.07125	51.26	mg/kg	34.256	66.83%
Li 670.784†	174.5	0.00474	mg/L	0.001464	2.279	mg/kg	0.7041	30.89%
Sr 407.771†	1107345.1	2.352	mg/L	0.0213	1131	mg/kg	10.25	0.91%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 118 **Autosampler Location: 152**
Sample ID: L729032-02 WG752044 **Date Collected: 11/3/2014 8:05:51 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.54 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729032-02 WG752044

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: L729032-02 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3007712.5	110.0	mg/L	2.44				2.22%
Y 360.073 R	69372.9	10.61	mg/L	0.049				0.46%
Ag 328.068†	391.3	0.00141	mg/L	0.000676	0.6531	mg/kg	0.31304	47.93%
Al 308.215†	925.1	2.313	mg/L	0.0522	1071	mg/kg	24.15	2.26%
As 188.979†	10.8	0.0052	mg/L	0.00612	2.401	mg/kg	2.8345	118.04%
Ba 233.527†	2840.3	0.0338	mg/L	0.00058	15.65	mg/kg	0.266	1.70%
Be 313.107†	160.1	0.00008	mg/L	0.000051	0.03711	mg/kg	0.023758	64.02%
Ca 315.887†	12473127.2	186.6	mg/L	4.18	86380	mg/kg	1936.37	2.24%
Cd 214.440†	-86.6	-0.0020	mg/L	0.00039	-0.9274	mg/kg	0.18013	19.42%
Co 228.616†	83.6	0.0019	mg/L	0.00029	0.8995	mg/kg	0.13355	14.85%
Cr 205.560†	143.0	0.0050	mg/L	0.00041	2.298	mg/kg	0.1909	8.31%
Cu 324.752†	265.1	-0.0003	mg/L	0.00015	-0.1268	mg/kg	0.07078	55.80%
Fe 238.863†	82154.4	4.618	mg/L	0.0237	2138	mg/kg	10.97	0.51%
Mg 279.077†	22486.5	3.338	mg/L	0.0182	1546	mg/kg	8.44	0.55%
Mn 257.610†	53786.4	0.0834	mg/L	0.00035	38.59	mg/kg	0.164	0.43%
Mo 202.031†	16.5	0.00065	mg/L	0.000051	0.3003	mg/kg	0.02373	7.90%
Ni 232.003†	145.7	0.0221	mg/L	0.00296	10.25	mg/kg	1.368	13.35%
Pb 220.353†	-11.1	0.00089	mg/L	0.002123	0.4109	mg/kg	0.98284	239.17%
Sb 206.836†	-3.8	-0.0020	mg/L	0.00281	-0.9207	mg/kg	1.30125	141.33%
Se 196.026†	-0.1	-0.0024	mg/L	0.00964	-1.129	mg/kg	4.4640	395.29%
Si 251.611†	163.3	0.2973	mg/L	0.01507	137.6	mg/kg	6.98	5.07%
Sn 189.927†	-0.9	0.0019	mg/L	0.00177	0.8758	mg/kg	0.82048	93.68%
Tl 190.801†	9.5	0.0037	mg/L	0.00186	1.732	mg/kg	0.8606	49.70%
V 292.402†	1277.6	0.0120	mg/L	0.00042	5.568	mg/kg	0.1954	3.51%
Zn 213.857†	-119.5	0.0020	mg/L	0.00010	0.9164	mg/kg	0.04580	5.00%
Ti 334.940†	16872.2	0.0243	mg/L	0.00020	11.24	mg/kg	0.091	0.81%
B 249.772†	25.5	0.0103	mg/L	0.00204	4.780	mg/kg	0.9466	19.80%
Na 589.592†	1461.7	0.2808	mg/L	0.01514	130.0	mg/kg	7.01	5.39%
K 766.490†	760.3	0.7472	mg/L	0.01130	345.9	mg/kg	5.23	1.51%
Li 670.784†	380.8	0.01100	mg/L	0.000790	5.091	mg/kg	0.3656	7.18%
Sr 407.771†	567468.1	1.205	mg/L	0.0094	557.9	mg/kg	4.37	0.78%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 119 **Autosampler Location: 153**
Sample ID: L729032-04 WG752044 **Date Collected: 11/3/2014 8:11:06 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729032-04 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: L729032-04 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2902114.1	106.1	mg/L	2.02				1.90%
Y 360.073 R	67687.4	10.35	mg/L	0.462				4.46%
Ag 328.068†	576.4	0.00186	mg/L	0.000390	0.8942	mg/kg	0.18750	20.97%
Al 308.215†	601.3	1.473	mg/L	0.0583	708.1	mg/kg	28.04	3.96%
As 188.979†	15.6	0.0075	mg/L	0.00485	3.630	mg/kg	2.3338	64.30%
Ba 233.527†	2823.3	0.0336	mg/L	0.00096	16.13	mg/kg	0.460	2.85%
Be 313.107†	-149.3	-0.00011	mg/L	0.000033	-0.05414	mg/kg	0.015684	28.97%
Ca 315.887†	18385043.0	275.0	mg/L	3.33	132200	mg/kg	1601.38	1.21%
Cd 214.440†	-67.1	-0.0017	mg/L	0.00019	-0.8198	mg/kg	0.08896	10.85%
Co 228.616†	65.3	0.0010	mg/L	0.00027	0.4780	mg/kg	0.12882	26.95%
Cr 205.560†	103.5	0.0029	mg/L	0.00032	1.372	mg/kg	0.1517	11.06%
Cu 324.752†	391.2	-0.0007	mg/L	0.00048	-0.3245	mg/kg	0.23278	71.73%
Fe 238.863†	29347.1	1.646	mg/L	0.0499	791.2	mg/kg	23.98	3.03%
Mg 279.077†	20441.8	3.031	mg/L	0.0965	1457	mg/kg	46.40	3.18%
Mn 257.610†	20134.9	0.0309	mg/L	0.00091	14.87	mg/kg	0.437	2.94%
Mo 202.031†	9.8	-0.00054	mg/L	0.000650	-0.2615	mg/kg	0.31273	119.57%
Ni 232.003†	115.0	0.0191	mg/L	0.00330	9.165	mg/kg	1.5873	17.32%
Pb 220.353†	-16.4	0.00189	mg/L	0.001370	0.9076	mg/kg	0.65882	72.59%
Sb 206.836†	3.3	0.0013	mg/L	0.00273	0.6357	mg/kg	1.31066	206.17%
Se 196.026†	10.1	0.0037	mg/L	0.01248	1.781	mg/kg	5.9997	336.83%
Si 251.611†	209.8	0.3799	mg/L	0.01272	182.6	mg/kg	6.12	3.35%
Sn 189.927†	-2.3	0.0019	mg/L	0.00057	0.9084	mg/kg	0.27595	30.38%
Tl 190.801†	7.5	0.0007	mg/L	0.00295	0.3435	mg/kg	1.41846	412.93%
V 292.402†	497.8	0.0045	mg/L	0.00018	2.160	mg/kg	0.0858	3.97%
Zn 213.857†	-457.9	-0.0009	mg/L	0.00027	-0.4198	mg/kg	0.12802	30.49%
Ti 334.940†	11522.0	0.0174	mg/L	0.00067	8.367	mg/kg	0.3245	3.88%
B 249.772†	12.0	0.0055	mg/L	0.00159	2.664	mg/kg	0.7655	28.73%
Na 589.592†	1989.1	0.3805	mg/L	0.01499	182.9	mg/kg	7.21	3.94%
K 766.490†	626.2	0.6103	mg/L	0.02651	293.4	mg/kg	12.75	4.34%
Li 670.784†	162.0	0.00441	mg/L	0.001216	2.118	mg/kg	0.5844	27.59%
Sr 407.771†	1024118.0	2.176	mg/L	0.0518	1046	mg/kg	24.91	2.38%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 120 **Autosampler Location: 154**
Sample ID: L729032-05 WG752044 **Date Collected: 11/3/2014 8:16:23 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.51 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729032-05 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: L729032-05 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2950727.7	107.9	mg/L	2.12				1.96%
Y 360.073 R	67127.4	10.27	mg/L	0.088				0.86%
Ag 328.068†	446.9	0.00163	mg/L	0.000557	0.7982	mg/kg	0.27286	34.19%
Al 308.215†	966.0	2.415	mg/L	0.0350	1184	mg/kg	17.16	1.45%
As 188.979†	14.6	0.0092	mg/L	0.00356	4.489	mg/kg	1.7427	38.82%
Ba 233.527†	5625.0	0.0673	mg/L	0.00062	32.98	mg/kg	0.304	0.92%
Be 313.107†	159.1	0.00008	mg/L	0.000027	0.03853	mg/kg	0.013124	34.06%
Ca 315.887†	12999927.2	194.5	mg/L	2.48	95320	mg/kg	1214.82	1.27%
Cd 214.440†	-73.6	-0.0017	mg/L	0.00019	-0.8371	mg/kg	0.09083	10.85%
Co 228.616†	82.8	0.0019	mg/L	0.00004	0.9262	mg/kg	0.02054	2.22%
Cr 205.560†	119.9	0.0040	mg/L	0.00014	1.945	mg/kg	0.0684	3.52%
Cu 324.752†	271.1	-0.0004	mg/L	0.00029	-0.2002	mg/kg	0.14192	70.87%
Fe 238.863†	54170.6	3.044	mg/L	0.0325	1492	mg/kg	15.92	1.07%
Mg 279.077†	12140.7	1.798	mg/L	0.0078	881.2	mg/kg	3.80	0.43%
Mn 257.610†	32334.9	0.0500	mg/L	0.00058	24.52	mg/kg	0.283	1.16%
Mo 202.031†	13.0	0.00023	mg/L	0.000491	0.1132	mg/kg	0.24059	212.56%
Ni 232.003†	120.3	0.0188	mg/L	0.00355	9.205	mg/kg	1.7385	18.89%
Pb 220.353†	-6.7	0.00252	mg/L	0.002985	1.237	mg/kg	1.4634	118.30%
Sb 206.836†	-3.5	-0.0019	mg/L	0.00373	-0.9393	mg/kg	1.82710	194.52%
Se 196.026†	-2.6	-0.0056	mg/L	0.00111	-2.746	mg/kg	0.5420	19.74%
Si 251.611†	265.0	0.4852	mg/L	0.01859	237.9	mg/kg	9.11	3.83%
Sn 189.927†	-17.0	-0.0018	mg/L	0.00172	-0.8809	mg/kg	0.84116	95.49%
Tl 190.801†	8.5	0.0028	mg/L	0.00257	1.382	mg/kg	1.2601	91.17%
V 292.402†	1023.9	0.0096	mg/L	0.00022	4.729	mg/kg	0.1069	2.26%
Zn 213.857†	-205.8	0.0010	mg/L	0.00043	0.4952	mg/kg	0.21167	42.75%
Ti 334.940†	11520.0	0.0170	mg/L	0.00012	8.323	mg/kg	0.0602	0.72%
B 249.772†	18.4	0.0079	mg/L	0.00241	3.876	mg/kg	1.1826	30.51%
Na 589.592†	1415.2	0.2706	mg/L	0.01138	132.6	mg/kg	5.58	4.21%
K 766.490†	1006.9	0.9917	mg/L	0.05931	486.1	mg/kg	29.07	5.98%
Li 670.784†	180.3	0.00506	mg/L	0.001692	2.482	mg/kg	0.8292	33.41%
Sr 407.771†	356202.5	0.7552	mg/L	0.00131	370.2	mg/kg	0.64	0.17%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 121 **Autosampler Location: 155**
Sample ID: L729032-06 WG752044 **Date Collected: 11/3/2014 8:21:33 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729032-06 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: L729032-06 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2903843.1	106.2	mg/L	1.16				1.09%
Y 360.073 R	66490.2	10.17	mg/L	0.155				1.52%
Ag 328.068†	549.3	0.00160	mg/L	0.000611	0.8011	mg/kg	0.30534	38.12%
Al 308.215†	369.9	0.8821	mg/L	0.02713	441.1	mg/kg	13.57	3.08%
As 188.979†	16.1	0.0076	mg/L	0.01021	3.825	mg/kg	5.1067	133.51%
Ba 233.527†	2287.7	0.0271	mg/L	0.00043	13.56	mg/kg	0.215	1.58%
Be 313.107†	-200.3	-0.00014	mg/L	0.000008	-0.07218	mg/kg	0.004234	5.87%
Ca 315.887†	19292186.4	288.6	mg/L	2.51	144300	mg/kg	1254.28	0.87%
Cd 214.440†	-75.3	-0.0018	mg/L	0.00022	-0.9115	mg/kg	0.11171	12.26%
Co 228.616†	56.4	0.0007	mg/L	0.00006	0.3253	mg/kg	0.02760	8.48%
Cr 205.560†	85.6	0.0020	mg/L	0.00020	1.017	mg/kg	0.0991	9.75%
Cu 324.752†	431.7	-0.0006	mg/L	0.00022	-0.3055	mg/kg	0.11179	36.59%
Fe 238.863†	18976.9	1.062	mg/L	0.0035	531.0	mg/kg	1.74	0.33%
Mg 279.077†	20033.7	2.970	mg/L	0.0134	1485	mg/kg	6.70	0.45%
Mn 257.610†	15667.5	0.0240	mg/L	0.00019	11.98	mg/kg	0.097	0.81%
Mo 202.031†	3.0	-0.00125	mg/L	0.000671	-0.6236	mg/kg	0.33541	53.78%
Ni 232.003†	98.5	0.0170	mg/L	0.00103	8.507	mg/kg	0.5162	6.07%
Pb 220.353†	-18.9	0.00153	mg/L	0.004227	0.7639	mg/kg	2.11344	276.68%
Sb 206.836†	-3.7	-0.0022	mg/L	0.00111	-1.102	mg/kg	0.5550	50.36%
Se 196.026†	5.6	-0.0011	mg/L	0.00162	-0.5571	mg/kg	0.80789	145.01%
Si 251.611†	136.1	0.2428	mg/L	0.00886	121.4	mg/kg	4.43	3.65%
Sn 189.927†	-9.1	0.0004	mg/L	0.00344	0.2120	mg/kg	1.71948	810.94%
Tl 190.801†	12.2	0.0038	mg/L	0.00100	1.918	mg/kg	0.5019	26.17%
V 292.402†	414.2	0.0037	mg/L	0.00015	1.850	mg/kg	0.0750	4.05%
Zn 213.857†	-578.8	-0.0024	mg/L	0.00018	-1.206	mg/kg	0.0906	7.51%
Ti 334.940†	9283.4	0.0144	mg/L	0.00016	7.194	mg/kg	0.0783	1.09%
B 249.772†	8.0	0.0036	mg/L	0.00337	1.779	mg/kg	1.6860	94.76%
Na 589.592†	1577.4	0.2940	mg/L	0.02156	147.0	mg/kg	10.78	7.33%
K 766.490†	343.5	0.3290	mg/L	0.05662	164.5	mg/kg	28.31	17.21%
Li 670.784†	204.5	0.00565	mg/L	0.001726	2.824	mg/kg	0.8629	30.56%
Sr 407.771†	1237623.9	2.630	mg/L	0.0769	1315	mg/kg	38.46	2.92%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 122 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/3/2014 8:26:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	210.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2914443.3	106.6 mg/L	1.19			1.12%
Y 360.073 R	65401.4	10.00 mg/L	0.155			1.55%
Ag 328.068†	160984.6	0.9413 mg/L	0.00042	0.9413 mg/L	0.00042	0.04%
QC value within limits for Ag 328.068 Recovery = 94.13%						
Al 308.215†	3761.8	9.530 mg/L	0.0720	9.530 mg/L	0.0720	0.76%
QC value within limits for Al 308.215 Recovery = 95.30%						
As 188.979†	1778.7	1.933 mg/L	0.0214	1.933 mg/L	0.0214	1.11%
QC value within limits for As 188.979 Recovery = 96.66%						
Ba 233.527†	42781.8	0.5133 mg/L	0.00450	0.5133 mg/L	0.00450	0.88%
QC value within limits for Ba 233.527 Recovery = 102.67%						
Be 313.107†	327277.3	0.1935 mg/L	0.00047	0.1935 mg/L	0.00047	0.24%
QC value within limits for Be 313.107 Recovery = 96.76%						
Ca 315.887†	3268553.1	48.90 mg/L	0.061	48.90 mg/L	0.061	0.13%
QC value within limits for Ca 315.887 Recovery = 97.79%						
Cd 214.440†	33694.4	0.4907 mg/L	0.00062	0.4907 mg/L	0.00062	0.13%
QC value within limits for Cd 214.440 Recovery = 98.14%						
Co 228.616†	31768.1	1.027 mg/L	0.0107	1.027 mg/L	0.0107	1.04%
QC value within limits for Co 228.616 Recovery = 102.74%						
Cr 205.560†	23901.6	1.012 mg/L	0.0093	1.012 mg/L	0.0093	0.92%
QC value within limits for Cr 205.560 Recovery = 101.16%						
Cu 324.752†	307084.6	1.863 mg/L	0.0004	1.863 mg/L	0.0004	0.02%
QC value within limits for Cu 324.752 Recovery = 93.14%						
Fe 238.863†	169041.4	9.509 mg/L	0.0185	9.509 mg/L	0.0185	0.19%
QC value within limits for Fe 238.863 Recovery = 95.09%						
Mg 279.077†	64669.2	9.626 mg/L	0.0078	9.626 mg/L	0.0078	0.08%
QC value within limits for Mg 279.077 Recovery = 96.26%						
Mn 257.610†	632424.9	0.9840 mg/L	0.00086	0.9840 mg/L	0.00086	0.09%
QC value within limits for Mn 257.610 Recovery = 98.40%						
Mo 202.031†	5461.8	0.4853 mg/L	0.00448	0.4853 mg/L	0.00448	0.92%
QC value within limits for Mo 202.031 Recovery = 97.05%						
Ni 232.003†	15150.1	2.009 mg/L	0.0203	2.009 mg/L	0.0203	1.01%
QC value within limits for Ni 232.003 Recovery = 100.45%						
Pb 220.353†	1775.8	0.4936 mg/L	0.00722	0.4936 mg/L	0.00722	1.46%
QC value within limits for Pb 220.353 Recovery = 98.72%						
Sb 206.836†	3842.6	1.916 mg/L	0.0192	1.916 mg/L	0.0192	1.00%
QC value within limits for Sb 206.836 Recovery = 95.81%						
Se 196.026†	2053.0	1.929 mg/L	0.0216	1.929 mg/L	0.0216	1.12%
QC value within limits for Se 196.026 Recovery = 96.46%						
Si 251.611†	1044.4	1.934 mg/L	0.0222	1.934 mg/L	0.0222	1.15%
QC value within limits for Si 251.611 Recovery = 96.69%						
Sn 189.927†	8752.4	1.939 mg/L	0.0185	1.939 mg/L	0.0185	0.96%
QC value within limits for Sn 189.927 Recovery = 96.94%						
Tl 190.801†	2785.9	1.957 mg/L	0.0117	1.957 mg/L	0.0117	0.60%
QC value within limits for Tl 190.801 Recovery = 97.85%						
V 292.402†	97696.5	0.9603 mg/L	0.00210	0.9603 mg/L	0.00210	0.22%
QC value within limits for V 292.402 Recovery = 96.03%						
Zn 213.857†	173096.9	2.824 mg/L	0.0017	2.824 mg/L	0.0017	0.06%
QC value within limits for Zn 213.857 Recovery = 94.14%						

Ti 334.940†	701958.8	0.9708 mg/L	0.00109	0.9708 mg/L	0.00109	0.11%
QC value within limits for Ti 334.940 Recovery = 97.08%						
B 249.772†	2248.9	1.805 mg/L	0.0244	1.805 mg/L	0.0244	1.35%
QC value within limits for B 249.772 Recovery = 90.27%						
Na 589.592†	256848.7	53.09 mg/L	0.149	53.09 mg/L	0.149	0.28%
QC value within limits for Na 589.592 Recovery = 106.17%						
K 766.490†	50239.4	49.89 mg/L	0.111	49.89 mg/L	0.111	0.22%
QC value within limits for K 766.490 Recovery = 99.78%						
Li 670.784†	52761.0	1.561 mg/L	0.0018	1.561 mg/L	0.0018	0.12%
QC value within limits for Li 670.784 Recovery = 104.08%						
Sr 407.771†	495360.0	1.054 mg/L	0.0013	1.054 mg/L	0.0013	0.12%
QC value within limits for Sr 407.771 Recovery = 105.37%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 123 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/3/2014 8:31:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3032248.5	110.9	mg/L	2.43				2.19%
Y 360.073 R	67524.8	10.33	mg/L	0.114				1.10%
Ag 328.068†	496.9	0.00290	mg/L	0.000347	0.00290	mg/L	0.000347	11.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-12.1	-0.0307	mg/L	0.01325	-0.0307	mg/L	0.01325	43.16%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.3	0.0003	mg/L	0.00449	0.0003	mg/L	0.00449	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	19.2	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	31.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-57.4	-0.00003	mg/L	0.000016	-0.00003	mg/L	0.000016	46.44%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1497.2	0.02239	mg/L	0.008390	0.02239	mg/L	0.008390	37.47%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-85.5	-0.0012	mg/L	0.00021	-0.0012	mg/L	0.00021	17.13%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	23.5	0.0008	mg/L	0.00041	0.0008	mg/L	0.00041	54.53%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	12.4	0.0005	mg/L	0.00014	0.0005	mg/L	0.00014	26.08%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	208.0	0.0013	mg/L	0.00031	0.0013	mg/L	0.00031	24.42%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	-58.0	-0.0033	mg/L	0.00101	-0.0033	mg/L	0.00101	31.05%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-65.9	-0.0098	mg/L	0.00086	-0.0098	mg/L	0.00086	8.76%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	19.8	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	135.94%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-8.5	-0.00076	mg/L	0.000540	-0.00076	mg/L	0.000540	71.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	82.1	0.0109	mg/L	0.00239	0.0109	mg/L	0.00239	21.93%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-14.5	-0.00402	mg/L	0.002418	-0.00402	mg/L	0.002418	60.12%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-9.1	-0.0045	mg/L	0.00230	-0.0045	mg/L	0.00230	50.90%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-3.7	-0.0035	mg/L	0.00363	-0.0035	mg/L	0.00363	103.24%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	1.2	0.0021	mg/L	0.02315	0.0021	mg/L	0.02315	>999.9%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	1.2	0.0003	mg/L	0.00125	0.0003	mg/L	0.00125	479.14%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	6.5	0.0046	mg/L	0.00266	0.0046	mg/L	0.00266	58.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	4.8	0.0000	mg/L	0.00061	0.0000	mg/L	0.00061	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	46.3	0.0008	mg/L	0.00014	0.0008	mg/L	0.00014	18.63%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	182.7	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	16.00%
QC value within limits for Ti 334.940 Recovery = Not calculated						
B 249.772†	15.6	0.0126 mg/L	0.00297	0.0126 mg/L	0.00297	23.46%
QC value within limits for B 249.772 Recovery = Not calculated						
Na 589.592†	242.6	0.0501 mg/L	0.02048	0.0501 mg/L	0.02048	40.83%
QC value within limits for Na 589.592 Recovery = Not calculated						
K 766.490†	68.4	0.0679 mg/L	0.04010	0.0679 mg/L	0.04010	59.05%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	89.9	0.00266 mg/L	0.002000	0.00266 mg/L	0.002000	75.20%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 407.771†	101.5	0.00022 mg/L	0.000075	0.00022 mg/L	0.000075	34.75%
QC value within limits for Sr 407.771 Recovery = Not calculated						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 124 **Autosampler Location: 156**
Sample ID: L729032-07 WG752044 **Date Collected: 11/3/2014 8:36:49 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.51 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729032-07 WG752044

Analyte	Back Pressure	Flow
All	211.0 kPa	0.55 L/min

Mean Data: L729032-07 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2943578.2	107.6	mg/L	0.38				0.35%
Y 360.073 R	68225.0	10.44	mg/L	0.189				1.81%
Ag 328.068†	433.9	0.00127	mg/L	0.000927	0.6209	mg/kg	0.45418	73.15%
Al 308.215†	915.4	2.277	mg/L	0.0401	1116	mg/kg	19.67	1.76%
As 188.979†	17.8	0.0111	mg/L	0.00549	5.425	mg/kg	2.6914	49.61%
Ba 233.527†	2833.0	0.0337	mg/L	0.00080	16.52	mg/kg	0.390	2.36%
Be 313.107†	-32.4	-0.00004	mg/L	0.000058	-0.02004	mg/kg	0.028445	141.96%
Ca 315.887†	16089756.1	240.7	mg/L	3.79	118000	mg/kg	1858.51	1.58%
Cd 214.440†	-83.1	-0.0019	mg/L	0.00014	-0.9426	mg/kg	0.07016	7.44%
Co 228.616†	80.1	0.0016	mg/L	0.00011	0.7920	mg/kg	0.05618	7.09%
Cr 205.560†	133.3	0.0043	mg/L	0.00052	2.099	mg/kg	0.2565	12.22%
Cu 324.752†	862.6	0.0026	mg/L	0.00036	1.280	mg/kg	0.1752	13.69%
Fe 238.863†	47471.4	2.666	mg/L	0.0482	1307	mg/kg	23.62	1.81%
Mg 279.077†	31248.8	4.642	mg/L	0.0808	2276	mg/kg	39.62	1.74%
Mn 257.610†	32981.4	0.0509	mg/L	0.00071	24.95	mg/kg	0.346	1.39%
Mo 202.031†	4.2	-0.00082	mg/L	0.000522	-0.4000	mg/kg	0.25597	63.99%
Ni 232.003†	126.1	0.0202	mg/L	0.00016	9.884	mg/kg	0.0768	0.78%
Pb 220.353†	-7.7	0.00342	mg/L	0.001726	1.678	mg/kg	0.8463	50.45%
Sb 206.836†	-7.5	-0.0040	mg/L	0.00201	-1.944	mg/kg	0.9835	50.58%
Se 196.026†	5.8	0.0009	mg/L	0.00219	0.4577	mg/kg	1.07371	234.61%
Si 251.611†	132.6	0.2380	mg/L	0.01681	116.7	mg/kg	8.24	7.06%
Sn 189.927†	0.6	0.0024	mg/L	0.00142	1.164	mg/kg	0.6964	59.81%
Tl 190.801†	10.1	0.0032	mg/L	0.00171	1.548	mg/kg	0.8383	54.15%
V 292.402†	1209.3	0.0114	mg/L	0.00038	5.610	mg/kg	0.1858	3.31%
Zn 213.857†	-248.5	0.0015	mg/L	0.00056	0.7393	mg/kg	0.27347	36.99%
Ti 334.940†	17380.2	0.0253	mg/L	0.00097	12.38	mg/kg	0.477	3.86%
B 249.772†	22.5	0.0120	mg/L	0.00334	5.862	mg/kg	1.6362	27.91%
Na 589.592†	1286.2	0.2387	mg/L	0.00418	117.0	mg/kg	2.05	1.75%
K 766.490†	921.5	0.9049	mg/L	0.03283	443.6	mg/kg	16.09	3.63%
Li 670.784†	457.8	0.01320	mg/L	0.001823	6.470	mg/kg	0.8938	13.81%
Sr 407.771†	1111295.9	2.362	mg/L	0.0064	1158	mg/kg	3.13	0.27%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 125 **Autosampler Location: 18**
Sample ID: ICSA **Date Collected: 11/3/2014 8:42:07 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2756836.3	100.8	mg/L	2.42				2.40%
Y 360.073 R	63054.6	9.645	mg/L	0.1717				1.78%
Ag 328.068†	-642.6	-0.00325	mg/L	0.000927	-0.00325	mg/L	0.000927	28.51%
Al 308.215†	192651.6	489.3	mg/L	6.85	489.3	mg/L	6.85	1.40%
As 188.979†	43.2	-0.0090	mg/L	0.00399	-0.0090	mg/L	0.00399	44.33%
Ba 233.527†	297.9	-0.0007	mg/L	0.00012	-0.0007	mg/L	0.00012	16.41%
Be 313.107†	-674.8	-0.00066	mg/L	0.000057	-0.00066	mg/L	0.000057	8.68%
Ca 315.887†	31278202.0	467.9	mg/L	6.87	467.9	mg/L	6.87	1.47%
Cd 214.440†	190.9	-0.0029	mg/L	0.00025	-0.0029	mg/L	0.00025	8.74%
Co 228.616†	-13.8	0.0000	mg/L	0.00046	0.0000	mg/L	0.00046	>999.9%
Cr 205.560†	144.3	-0.0020	mg/L	0.00056	-0.0020	mg/L	0.00056	27.84%
Cu 324.752†	-1921.8	-0.0153	mg/L	0.00006	-0.0153	mg/L	0.00006	0.42%
Fe 238.863†	3319733.0	186.7	mg/L	1.22	186.7	mg/L	1.22	0.66%
Mg 279.077†	3605922.9	537.0	mg/L	3.67	537.0	mg/L	3.67	0.68%
Mn 257.610†	2462.8	-0.0190	mg/L	0.00013	-0.0190	mg/L	0.00013	0.67%
Mo 202.031†	-51.5	0.00075	mg/L	0.001003	0.00075	mg/L	0.001003	134.35%
Ni 232.003†	-211.0	0.0022	mg/L	0.00230	0.0022	mg/L	0.00230	103.55%
Pb 220.353†	-186.9	-0.01732	mg/L	0.003525	-0.01732	mg/L	0.003525	20.36%
Sb 206.836†	4.4	-0.0032	mg/L	0.00533	-0.0032	mg/L	0.00533	163.96%
Se 196.026†	-67.4	0.0255	mg/L	0.00436	0.0255	mg/L	0.00436	17.09%
Si 251.611†	6.9	-0.0470	mg/L	0.00346	-0.0470	mg/L	0.00346	7.37%
Sn 189.927†	-28.5	0.0151	mg/L	0.00173	0.0151	mg/L	0.00173	11.44%
Tl 190.801†	14.3	0.0024	mg/L	0.00568	0.0024	mg/L	0.00568	233.64%
V 292.402†	1187.0	-0.0046	mg/L	0.00037	-0.0046	mg/L	0.00037	7.98%
Zn 213.857†	797.3	-0.0147	mg/L	0.00060	-0.0147	mg/L	0.00060	4.07%
Ti 334.940†	-3394.4	-0.0214	mg/L	0.00008	-0.0214	mg/L	0.00008	0.37%
B 249.772†	839.5	0.2726	mg/L	0.02155	0.2726	mg/L	0.02155	7.91%
Na 589.592†	359.4	-0.0637	mg/L	0.00566	-0.0637	mg/L	0.00566	8.88%
K 766.490†	42.3	0.0034	mg/L	0.03303	0.0034	mg/L	0.03303	963.63%
Li 670.784†	15.1	-0.00391	mg/L	0.000959	-0.00391	mg/L	0.000959	24.56%
Sr 407.771†	3890.6	0.00092	mg/L	0.000055	0.00092	mg/L	0.000055	5.97%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 126 **Autosampler Location: 19**
Sample ID: ICSAB **Date Collected: 11/3/2014 8:48:13 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2724425.5	99.63	mg/L	1.464				1.47%
Y 360.073 R	62342.0	9.536	mg/L	0.1161				1.22%
Ag 328.068†	174192.3	1.018	mg/L	0.0016	1.018	mg/L	0.0016	0.15%
Al 308.215†	197600.1	501.8	mg/L	8.68	501.8	mg/L	8.68	1.73%
As 188.979†	513.6	0.5015	mg/L	0.00842	0.5015	mg/L	0.00842	1.68%
Ba 233.527†	42866.3	0.5104	mg/L	0.00597	0.5104	mg/L	0.00597	1.17%
Be 313.107†	837665.1	0.4951	mg/L	0.00087	0.4951	mg/L	0.00087	0.18%
Ca 315.887†	31982075.4	478.4	mg/L	4.59	478.4	mg/L	4.59	0.96%
Cd 214.440†	64905.1	0.9408	mg/L	0.00655	0.9408	mg/L	0.00655	0.70%
Co 228.616†	14831.2	0.4802	mg/L	0.00603	0.4802	mg/L	0.00603	1.26%
Cr 205.560†	11732.3	0.4885	mg/L	0.00627	0.4885	mg/L	0.00627	1.28%
Cu 324.752†	77917.6	0.4689	mg/L	0.00149	0.4689	mg/L	0.00149	0.32%
Fe 238.863†	3386759.2	190.5	mg/L	0.56	190.5	mg/L	0.56	0.30%
Mg 279.077†	3672090.3	546.9	mg/L	1.29	546.9	mg/L	1.29	0.24%
Mn 257.610†	307831.5	0.4559	mg/L	0.00066	0.4559	mg/L	0.00066	0.14%
Mo 202.031†	5395.9	0.4845	mg/L	0.00487	0.4845	mg/L	0.00487	1.01%
Ni 232.003†	7561.0	1.033	mg/L	0.0126	1.033	mg/L	0.0126	1.22%
Pb 220.353†	3303.5	0.9521	mg/L	0.01202	0.9521	mg/L	0.01202	1.26%
Sb 206.836†	1021.5	0.5045	mg/L	0.00199	0.5045	mg/L	0.00199	0.39%
Se 196.026†	467.2	0.5288	mg/L	0.01408	0.5288	mg/L	0.01408	2.66%
Si 251.611†	557.3	0.9712	mg/L	0.00344	0.9712	mg/L	0.00344	0.35%
Sn 189.927†	2088.3	0.4841	mg/L	0.00443	0.4841	mg/L	0.00443	0.91%
Tl 190.801†	677.6	0.4677	mg/L	0.01103	0.4677	mg/L	0.01103	2.36%
V 292.402†	49639.6	0.4717	mg/L	0.00156	0.4717	mg/L	0.00156	0.33%
Zn 213.857†	59074.6	0.9357	mg/L	0.00551	0.9357	mg/L	0.00551	0.59%
Ti 334.940†	346757.7	0.4627	mg/L	0.00017	0.4627	mg/L	0.00017	0.04%
B 249.772†	1994.3	1.202	mg/L	0.0251	1.202	mg/L	0.0251	2.09%
Na 589.592†	286.8	-0.0819	mg/L	0.01814	-0.0819	mg/L	0.01814	22.16%
K 766.490†	69.4	0.0296	mg/L	0.02331	0.0296	mg/L	0.02331	78.62%
Li 670.784†	104.7	-0.00135	mg/L	0.001682	-0.00135	mg/L	0.001682	124.72%
Sr 407.771†	3722.0	0.00040	mg/L	0.000102	0.00040	mg/L	0.000102	25.45%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 127 **Autosampler Location: 0**
Sample ID: INSTBLK **Date Collected: 11/3/2014 8:54:19 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: INSTBLK

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: INSTBLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3051088.3	111.6	mg/L	0.54				0.48%
Y 360.073 R	66680.3	10.20	mg/L	0.125				1.23%
Ag 328.068†	371.2	0.00217	mg/L	0.000950	0.00217	mg/L	0.000950	43.84%
Al 308.215†	9.9	0.0252	mg/L	0.01895	0.0252	mg/L	0.01895	75.33%
As 188.979†	2.5	0.0027	mg/L	0.00594	0.0027	mg/L	0.00594	217.75%
Ba 233.527†	18.7	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	23.46%
Be 313.107†	29.4	0.00002	mg/L	0.000033	0.00002	mg/L	0.000033	192.10%
Ca 315.887†	2880.0	0.04308	mg/L	0.009196	0.04308	mg/L	0.009196	21.34%
Cd 214.440†	-83.6	-0.0012	mg/L	0.00004	-0.0012	mg/L	0.00004	3.47%
Co 228.616†	27.8	0.0009	mg/L	0.00026	0.0009	mg/L	0.00026	28.95%
Cr 205.560†	15.8	0.0007	mg/L	0.00038	0.0007	mg/L	0.00038	56.43%
Cu 324.752†	154.5	0.0009	mg/L	0.00033	0.0009	mg/L	0.00033	35.53%
Fe 238.863†	322.3	0.0181	mg/L	0.00203	0.0181	mg/L	0.00203	11.20%
Mg 279.077†	286.0	0.0426	mg/L	0.00716	0.0426	mg/L	0.00716	16.82%
Mn 257.610†	-42.3	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	70.61%
Mo 202.031†	-8.6	-0.00076	mg/L	0.000090	-0.00076	mg/L	0.000090	11.85%
Ni 232.003†	87.2	0.0116	mg/L	0.00167	0.0116	mg/L	0.00167	14.48%
Pb 220.353†	-5.7	-0.00157	mg/L	0.000516	-0.00157	mg/L	0.000516	32.84%
Sb 206.836†	-7.1	-0.0035	mg/L	0.00122	-0.0035	mg/L	0.00122	34.48%
Se 196.026†	-13.4	-0.0126	mg/L	0.00601	-0.0126	mg/L	0.00601	47.80%
Si 251.611†	-2.7	-0.0050	mg/L	0.00585	-0.0050	mg/L	0.00585	117.46%
Sn 189.927†	-3.5	-0.0008	mg/L	0.00146	-0.0008	mg/L	0.00146	188.26%
Tl 190.801†	6.0	0.0042	mg/L	0.00297	0.0042	mg/L	0.00297	70.86%
V 292.402†	-14.4	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	114.57%
Zn 213.857†	27.7	0.0004	mg/L	0.00025	0.0004	mg/L	0.00025	56.10%
Ti 334.940†	189.8	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	45.23%
B 249.772†	5.5	0.0044	mg/L	0.00272	0.0044	mg/L	0.00272	61.13%
Na 589.592†	34.6	0.0071	mg/L	0.01212	0.0071	mg/L	0.01212	169.45%
K 766.490†	-60.1	-0.0597	mg/L	0.06356	-0.0597	mg/L	0.06356	106.47%
Li 670.784†	100.0	0.00296	mg/L	0.001242	0.00296	mg/L	0.001242	42.00%
Sr 407.771†	-59.7	-0.00013	mg/L	0.000071	-0.00013	mg/L	0.000071	55.58%

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 128 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/3/2014 8:59:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2950236.7	107.9 mg/L	2.75			2.55%
Y 360.073 R	63342.1	9.689 mg/L	0.1549			1.60%
Ag 328.068†	161501.5	0.9443 mg/L	0.00320	0.9443 mg/L	0.00320	0.34%
QC value within limits for Ag 328.068 Recovery = 94.43%						
Al 308.215†	3687.2	9.341 mg/L	0.1962	9.341 mg/L	0.1962	2.10%
QC value within limits for Al 308.215 Recovery = 93.41%						
As 188.979†	1806.2	1.963 mg/L	0.0114	1.963 mg/L	0.0114	0.58%
QC value within limits for As 188.979 Recovery = 98.16%						
Ba 233.527†	40841.3	0.4900 mg/L	0.00097	0.4900 mg/L	0.00097	0.20%
QC value within limits for Ba 233.527 Recovery = 98.00%						
Be 313.107†	329983.0	0.1951 mg/L	0.00063	0.1951 mg/L	0.00063	0.33%
QC value within limits for Be 313.107 Recovery = 97.56%						
Ca 315.887†	3316987.5	49.62 mg/L	0.191	49.62 mg/L	0.191	0.38%
QC value within limits for Ca 315.887 Recovery = 99.24%						
Cd 214.440†	34493.0	0.5024 mg/L	0.00208	0.5024 mg/L	0.00208	0.41%
QC value within limits for Cd 214.440 Recovery = 100.47%						
Co 228.616†	32158.7	1.040 mg/L	0.0091	1.040 mg/L	0.0091	0.87%
QC value within limits for Co 228.616 Recovery = 104.00%						
Cr 205.560†	24268.3	1.027 mg/L	0.0088	1.027 mg/L	0.0088	0.86%
QC value within limits for Cr 205.560 Recovery = 102.71%						
Cu 324.752†	306263.0	1.858 mg/L	0.0072	1.858 mg/L	0.0072	0.39%
QC value within limits for Cu 324.752 Recovery = 92.89%						
Fe 238.863†	171695.8	9.658 mg/L	0.0113	9.658 mg/L	0.0113	0.12%
QC value within limits for Fe 238.863 Recovery = 96.58%						
Mg 279.077†	65975.9	9.820 mg/L	0.0319	9.820 mg/L	0.0319	0.32%
QC value within limits for Mg 279.077 Recovery = 98.20%						
Mn 257.610†	638188.8	0.9929 mg/L	0.00123	0.9929 mg/L	0.00123	0.12%
QC value within limits for Mn 257.610 Recovery = 99.29%						
Mo 202.031†	5518.2	0.4903 mg/L	0.00489	0.4903 mg/L	0.00489	1.00%
QC value within limits for Mo 202.031 Recovery = 98.05%						
Ni 232.003†	15291.4	2.028 mg/L	0.0170	2.028 mg/L	0.0170	0.84%
QC value within limits for Ni 232.003 Recovery = 101.38%						
Pb 220.353†	1798.5	0.4999 mg/L	0.00857	0.4999 mg/L	0.00857	1.71%
QC value within limits for Pb 220.353 Recovery = 99.97%						
Sb 206.836†	3875.8	1.933 mg/L	0.0139	1.933 mg/L	0.0139	0.72%
QC value within limits for Sb 206.836 Recovery = 96.64%						
Se 196.026†	2085.3	1.960 mg/L	0.0127	1.960 mg/L	0.0127	0.65%
QC value within limits for Se 196.026 Recovery = 97.98%						
Si 251.611†	1023.1	1.894 mg/L	0.0493	1.894 mg/L	0.0493	2.60%
QC value within limits for Si 251.611 Recovery = 94.71%						
Sn 189.927†	8931.6	1.978 mg/L	0.0133	1.978 mg/L	0.0133	0.67%
QC value within limits for Sn 189.927 Recovery = 98.92%						
Tl 190.801†	2818.2	1.980 mg/L	0.0140	1.980 mg/L	0.0140	0.71%
QC value within limits for Tl 190.801 Recovery = 98.99%						
V 292.402†	98215.9	0.9654 mg/L	0.00207	0.9654 mg/L	0.00207	0.21%
QC value within limits for V 292.402 Recovery = 96.54%						
Zn 213.857†	175795.5	2.868 mg/L	0.0014	2.868 mg/L	0.0014	0.05%
QC value within limits for Zn 213.857 Recovery = 95.61%						

Ti 334.940†	704679.4	0.9746 mg/L	0.00185	0.9746 mg/L	0.00185	0.19%
QC value within limits for Ti 334.940 Recovery = 97.46%						
B 249.772†	2182.3	1.751 mg/L	0.0435	1.751 mg/L	0.0435	2.49%
QC value less than the lower limit for B 249.772 Recovery = 87.55%						
Na 589.592†	262049.2	54.16 mg/L	0.240	54.16 mg/L	0.240	0.44%
QC value within limits for Na 589.592 Recovery = 108.32%						
K 766.490†	51217.0	50.86 mg/L	0.290	50.86 mg/L	0.290	0.57%
QC value within limits for K 766.490 Recovery = 101.72%						
Li 670.784†	53678.8	1.588 mg/L	0.0061	1.588 mg/L	0.0061	0.39%
QC value within limits for Li 670.784 Recovery = 105.90%						
Sr 407.771†	500957.7	1.066 mg/L	0.0029	1.066 mg/L	0.0029	0.27%
QC value within limits for Sr 407.771 Recovery = 106.56%						

QC Failed. Retry.

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Sequence No.: 129 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/3/2014 9:02:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	208.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2932236.0	107.2	mg/L	2.45				2.29%
Y 360.073 R	62470.7	9.556	mg/L	0.1670				1.75%
Ag 328.068†	160937.5	0.9410	mg/L	0.00178	0.9410	mg/L	0.00178	0.19%
QC value within limits for Ag 328.068 Recovery = 94.10%								
Al 308.215†	3641.7	9.225	mg/L	0.1862	9.225	mg/L	0.1862	2.02%
QC value within limits for Al 308.215 Recovery = 92.25%								
As 188.979†	1777.0	1.931	mg/L	0.0524	1.931	mg/L	0.0524	2.72%
QC value within limits for As 188.979 Recovery = 96.57%								
Ba 233.527†	42714.7	0.5125	mg/L	0.01346	0.5125	mg/L	0.01346	2.63%
QC value within limits for Ba 233.527 Recovery = 102.50%								
Be 313.107†	328436.4	0.1942	mg/L	0.00029	0.1942	mg/L	0.00029	0.15%
QC value within limits for Be 313.107 Recovery = 97.11%								
Ca 315.887†	3288091.3	49.19	mg/L	0.145	49.19	mg/L	0.145	0.29%
QC value within limits for Ca 315.887 Recovery = 98.38%								
Cd 214.440†	34024.4	0.4955	mg/L	0.00023	0.4955	mg/L	0.00023	0.05%
QC value within limits for Cd 214.440 Recovery = 99.10%								
Co 228.616†	31739.1	1.026	mg/L	0.0275	1.026	mg/L	0.0275	2.68%
QC value within limits for Co 228.616 Recovery = 102.64%								
Cr 205.560†	23967.5	1.014	mg/L	0.0265	1.014	mg/L	0.0265	2.62%
QC value within limits for Cr 205.560 Recovery = 101.44%								
Cu 324.752†	306607.4	1.860	mg/L	0.0045	1.860	mg/L	0.0045	0.24%
QC value within limits for Cu 324.752 Recovery = 93.00%								
Fe 238.863†	170429.7	9.587	mg/L	0.0293	9.587	mg/L	0.0293	0.31%
QC value within limits for Fe 238.863 Recovery = 95.87%								
Mg 279.077†	65321.5	9.723	mg/L	0.0281	9.723	mg/L	0.0281	0.29%
QC value within limits for Mg 279.077 Recovery = 97.23%								
Mn 257.610†	634581.9	0.9873	mg/L	0.00132	0.9873	mg/L	0.00132	0.13%
QC value within limits for Mn 257.610 Recovery = 98.73%								
Mo 202.031†	5441.4	0.4834	mg/L	0.01274	0.4834	mg/L	0.01274	2.64%
QC value within limits for Mo 202.031 Recovery = 96.69%								
Ni 232.003†	15113.0	2.004	mg/L	0.0479	2.004	mg/L	0.0479	2.39%
QC value within limits for Ni 232.003 Recovery = 100.20%								
Pb 220.353†	1766.7	0.4910	mg/L	0.01537	0.4910	mg/L	0.01537	3.13%
QC value within limits for Pb 220.353 Recovery = 98.20%								
Sb 206.836†	3837.3	1.914	mg/L	0.0535	1.914	mg/L	0.0535	2.80%
QC value within limits for Sb 206.836 Recovery = 95.68%								
Se 196.026†	2047.9	1.924	mg/L	0.0521	1.924	mg/L	0.0521	2.71%
QC value within limits for Se 196.026 Recovery = 96.22%								
Si 251.611†	1010.8	1.872	mg/L	0.0474	1.872	mg/L	0.0474	2.54%
QC value within limits for Si 251.611 Recovery = 93.58%								
Sn 189.927†	8797.2	1.949	mg/L	0.0511	1.949	mg/L	0.0511	2.62%

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   QC value within limits for Sn 189.927  Recovery = 97.43%
Tl 190.801†            2784.1       1.956 mg/L        0.0519       1.956 mg/L        0.0519   2.65%
   QC value within limits for Tl 190.801  Recovery = 97.79%
V 292.402†            97988.2      0.9631 mg/L       0.00196      0.9631 mg/L       0.00196   0.20%
   QC value within limits for V 292.402  Recovery = 96.31%
Zn 213.857†          174463.9       2.847 mg/L        0.0030       2.847 mg/L        0.0030   0.11%
   QC value within limits for Zn 213.857  Recovery = 94.89%
Ti 334.940†          702733.0      0.9719 mg/L       0.00122      0.9719 mg/L       0.00122   0.13%
   QC value within limits for Ti 334.940  Recovery = 97.19%
B 249.772†             2180.5       1.750 mg/L        0.0429       1.750 mg/L        0.0429   2.45%
   QC value less than the lower limit for B 249.772  Recovery = 87.48%
Na 589.592†          264363.1       54.64 mg/L         0.102       54.64 mg/L         0.102   0.19%
   QC value within limits for Na 589.592  Recovery = 109.28%
K 766.490†            52066.8       51.70 mg/L         0.252       51.70 mg/L         0.252   0.49%
   QC value within limits for K 766.490  Recovery = 103.41%
Li 670.784†           54168.3       1.603 mg/L        0.0074       1.603 mg/L        0.0074   0.46%
   QC value within limits for Li 670.784  Recovery = 106.86%
Sr 407.771†          501519.5       1.067 mg/L        0.0025       1.067 mg/L        0.0025   0.24%
   QC value within limits for Sr 407.771  Recovery = 106.69%
QC Failed.  Continue with analysis.
```

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 130 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/3/2014 9:07:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2980472.0	109.0	mg/L	2.06				1.89%
Y 360.073 R	66048.5	10.10	mg/L	0.348				3.44%
Ag 328.068†	404.9	0.00236	mg/L	0.000640	0.00236	mg/L	0.000640	27.11%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-7.1	-0.0180	mg/L	0.01486	-0.0180	mg/L	0.01486	82.62%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	7.5	0.0082	mg/L	0.00186	0.0082	mg/L	0.00186	22.79%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	17.6	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	7.63%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-21.2	-0.00001	mg/L	0.000011	-0.00001	mg/L	0.000011	84.24%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	605.1	0.00905	mg/L	0.005529	0.00905	mg/L	0.005529	61.10%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-54.0	-0.0008	mg/L	0.00009	-0.0008	mg/L	0.00009	11.39%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	19.8	0.0006	mg/L	0.00041	0.0006	mg/L	0.00041	64.22%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	11.8	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	11.54%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	450.8	0.0027	mg/L	0.00108	0.0027	mg/L	0.00108	39.43%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	11.0	0.0006	mg/L	0.00061	0.0006	mg/L	0.00061	97.87%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-17.1	-0.0026	mg/L	0.00040	-0.0026	mg/L	0.00040	15.85%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	45.5	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	79.56%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-10.6	-0.00095	mg/L	0.000475	-0.00095	mg/L	0.000475	50.24%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	56.6	0.0075	mg/L	0.00165	0.0075	mg/L	0.00165	21.95%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-6.1	-0.00169	mg/L	0.002418	-0.00169	mg/L	0.002418	142.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.8	0.0014	mg/L	0.00394	0.0014	mg/L	0.00394	280.39%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-3.4	-0.0032	mg/L	0.00984	-0.0032	mg/L	0.00984	306.90%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-7.7	-0.0142	mg/L	0.00634	-0.0142	mg/L	0.00634	44.62%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	6.3	0.0014	mg/L	0.00119	0.0014	mg/L	0.00119	86.01%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	3.0	0.0021	mg/L	0.00385	0.0021	mg/L	0.00385	181.94%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-26.7	-0.0003	mg/L	0.00019	-0.0003	mg/L	0.00019	73.03%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	62.3	0.0010	mg/L	0.00029	0.0010	mg/L	0.00029	28.68%
QC value within limits for Zn 213.857 Recovery = Not calculated								

```
Ti 334.940†              321.2      0.0004 mg/L       0.00009      0.0004 mg/L       0.00009  19.47%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                25.9      0.0211 mg/L       0.00328      0.0211 mg/L       0.00328  15.59%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†              394.5      0.0815 mg/L       0.01979      0.0815 mg/L       0.01979  24.27%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†               174.0      0.1728 mg/L       0.03803      0.1728 mg/L       0.03803  22.01%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†              124.4     0.00368 mg/L      0.000913     0.00368 mg/L      0.000913  24.81%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†               -0.2    -0.00000 mg/L      0.000068    -0.00000 mg/L      0.000068 >999.9%
   QC value within limits for Sr 407.771  Recovery = Not calculated
All analyte(s) passed QC.
```

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Method Loaded
Method Name: IT11K03N **Method Last Saved: 11/3/2014 6:32:57 PM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 131 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/3/2014 9:12:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCVLL 14J27641

Analyte	Back Pressure	Flow
All	207.0 kPa	0.55 L/min

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2983275.0	109.1	mg/L	1.38				1.26%
Y 360.073 R	65402.0	10.00	mg/L	0.245				2.45%
Ag 328.068†	2068.9	0.01209	mg/L	0.000202	0.01209	mg/L	0.000202	1.67%
QC value within limits for Ag 328.068 Recovery = 120.93%								
Al 308.215†	30.0	0.0759	mg/L	0.02115	0.0759	mg/L	0.02115	27.86%
QC value within limits for Al 308.215 Recovery = 75.89%								
As 188.979†	19.5	0.0212	mg/L	0.00372	0.0212	mg/L	0.00372	17.54%
QC value within limits for As 188.979 Recovery = 106.13%								
Ba 233.527†	442.9	0.0053	mg/L	0.00013	0.0053	mg/L	0.00013	2.35%
QC value within limits for Ba 233.527 Recovery = 106.28%								
Be 313.107†	3108.6	0.00184	mg/L	0.000010	0.00184	mg/L	0.000010	0.55%
QC value within limits for Be 313.107 Recovery = 91.91%								
Ca 315.887†	32330.9	0.4837	mg/L	0.00518	0.4837	mg/L	0.00518	1.07%
QC value within limits for Ca 315.887 Recovery = 96.73%								
Cd 214.440†	279.7	0.0041	mg/L	0.00018	0.0041	mg/L	0.00018	4.54%
QC value within limits for Cd 214.440 Recovery = 81.41%								
Co 228.616†	344.3	0.0111	mg/L	0.00021	0.0111	mg/L	0.00021	1.84%
QC value within limits for Co 228.616 Recovery = 111.33%								
Cr 205.560†	253.8	0.0107	mg/L	0.00003	0.0107	mg/L	0.00003	0.24%
QC value within limits for Cr 205.560 Recovery = 107.40%								
Cu 324.752†	3142.8	0.0191	mg/L	0.00043	0.0191	mg/L	0.00043	2.27%
QC value within limits for Cu 324.752 Recovery = 95.33%								
Fe 238.863†	1844.8	0.1038	mg/L	0.00084	0.1038	mg/L	0.00084	0.80%
QC value within limits for Fe 238.863 Recovery = 103.77%								
Mg 279.077†	689.5	0.1026	mg/L	0.00198	0.1026	mg/L	0.00198	1.93%
QC value within limits for Mg 279.077 Recovery = 102.63%								
Mn 257.610†	6207.8	0.0097	mg/L	0.00004	0.0097	mg/L	0.00004	0.37%
QC value within limits for Mn 257.610 Recovery = 96.58%								
Mo 202.031†	47.5	0.00422	mg/L	0.000419	0.00422	mg/L	0.000419	9.93%
QC value within limits for Mo 202.031 Recovery = 84.43%								
Ni 232.003†	202.5	0.0268	mg/L	0.00240	0.0268	mg/L	0.00240	8.94%
QC value within limits for Ni 232.003 Recovery = 134.24%								
Pb 220.353†	1.3	0.00035	mg/L	0.002595	0.00035	mg/L	0.002595	734.23%
QC value less than the lower limit for Pb 220.353 Recovery = 7.07%								
Sb 206.836†	35.6	0.0177	mg/L	0.00131	0.0177	mg/L	0.00131	7.39%
QC value within limits for Sb 206.836 Recovery = 88.73%								
Se 196.026†	16.5	0.0155	mg/L	0.01431	0.0155	mg/L	0.01431	92.21%
QC value within limits for Se 196.026 Recovery = 77.62%								
Si 251.611†	90.8	0.1683	mg/L	0.00839	0.1683	mg/L	0.00839	4.99%
QC value within limits for Si 251.611 Recovery = 84.14%								
Sn 189.927†	88.3	0.0196	mg/L	0.00156	0.0196	mg/L	0.00156	7.98%
QC value within limits for Sn 189.927 Recovery = 97.85%								
Tl 190.801†	34.1	0.0240	mg/L	0.00073	0.0240	mg/L	0.00073	3.05%
QC value within limits for Tl 190.801 Recovery = 119.97%								
V 292.402†	1001.8	0.0098	mg/L	0.00035	0.0098	mg/L	0.00035	3.52%
QC value within limits for V 292.402 Recovery = 98.46%								
Zn 213.857†	1790.4	0.0292	mg/L	0.00063	0.0292	mg/L	0.00063	2.16%
QC value within limits for Zn 213.857 Recovery = 97.37%								

```
Ti 334.940†            7313.1      0.0101 mg/L       0.00015      0.0101 mg/L       0.00015   1.49%
   QC value within limits for Ti 334.940  Recovery = 101.14%
B 249.772†              220.6      0.1789 mg/L       0.00470      0.1789 mg/L       0.00470   2.63%
   QC value within limits for B 249.772  Recovery = 89.45%
Na 589.592†            2724.5      0.5631 mg/L       0.01602      0.5631 mg/L       0.01602   2.84%
   QC value within limits for Na 589.592  Recovery = 112.62%
K 766.490†              555.7      0.5519 mg/L       0.08065      0.5519 mg/L       0.08065  14.61%
   QC value within limits for K 766.490  Recovery = 110.37%
Li 670.784†             523.5     0.01549 mg/L      0.001659     0.01549 mg/L      0.001659  10.71%
   QC value within limits for Li 670.784  Recovery = 103.27%
Sr 407.771†            4788.5     0.01019 mg/L      0.000078     0.01019 mg/L      0.000078   0.77%
   QC value within limits for Sr 407.771  Recovery = 101.86%
QC Failed.  Retry.
```

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Sequence No.: 132 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/3/2014 9:16:04 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCVLL 14J27641

Analyte	Back Pressure	Flow
All	208.0 kPa	0.55 L/min

Mean Data: CCVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3017613.7	110.3	mg/L	2.49				2.26%
Y 360.073 R	64790.3	9.911	mg/L	0.1591				1.61%
Ag 328.068†	1892.8	0.01106	mg/L	0.000381	0.01106	mg/L	0.000381	3.44%
QC value within limits for Ag 328.068 Recovery = 110.63%								
Al 308.215†	20.5	0.0519	mg/L	0.02382	0.0519	mg/L	0.02382	45.93%
QC value within limits for Al 308.215 Recovery = 51.87%								
As 188.979†	19.6	0.0213	mg/L	0.00286	0.0213	mg/L	0.00286	13.46%
QC value within limits for As 188.979 Recovery = 106.31%								
Ba 233.527†	436.4	0.0052	mg/L	0.00014	0.0052	mg/L	0.00014	2.64%
QC value within limits for Ba 233.527 Recovery = 104.73%								
Be 313.107†	3094.6	0.00183	mg/L	0.000053	0.00183	mg/L	0.000053	2.90%
QC value within limits for Be 313.107 Recovery = 91.50%								
Ca 315.887†	32325.5	0.4836	mg/L	0.00677	0.4836	mg/L	0.00677	1.40%
QC value within limits for Ca 315.887 Recovery = 96.72%								
Cd 214.440†	266.1	0.0039	mg/L	0.00023	0.0039	mg/L	0.00023	6.06%
QC value within limits for Cd 214.440 Recovery = 77.45%								
Co 228.616†	339.9	0.0110	mg/L	0.00022	0.0110	mg/L	0.00022	2.03%
QC value within limits for Co 228.616 Recovery = 109.92%								
Cr 205.560†	246.4	0.0104	mg/L	0.00010	0.0104	mg/L	0.00010	0.98%
QC value within limits for Cr 205.560 Recovery = 104.31%								
Cu 324.752†	3023.6	0.0183	mg/L	0.00080	0.0183	mg/L	0.00080	4.34%
QC value within limits for Cu 324.752 Recovery = 91.71%								
Fe 238.863†	1778.1	0.1000	mg/L	0.00257	0.1000	mg/L	0.00257	2.56%
QC value within limits for Fe 238.863 Recovery = 100.02%								
Mg 279.077†	646.2	0.0962	mg/L	0.00354	0.0962	mg/L	0.00354	3.68%
QC value within limits for Mg 279.077 Recovery = 96.18%								
Mn 257.610†	6230.4	0.0097	mg/L	0.00040	0.0097	mg/L	0.00040	4.13%
QC value within limits for Mn 257.610 Recovery = 96.94%								
Mo 202.031†	47.8	0.00424	mg/L	0.000343	0.00424	mg/L	0.000343	8.08%
QC value within limits for Mo 202.031 Recovery = 84.88%								
Ni 232.003†	203.7	0.0270	mg/L	0.00055	0.0270	mg/L	0.00055	2.03%
QC value within limits for Ni 232.003 Recovery = 135.05%								
Pb 220.353†	6.7	0.00187	mg/L	0.001005	0.00187	mg/L	0.001005	53.75%
QC value less than the lower limit for Pb 220.353 Recovery = 37.41%								
Sb 206.836†	30.3	0.0151	mg/L	0.00201	0.0151	mg/L	0.00201	13.30%
QC value within limits for Sb 206.836 Recovery = 75.61%								
Se 196.026†	10.7	0.0101	mg/L	0.00143	0.0101	mg/L	0.00143	14.14%
QC value within limits for Se 196.026 Recovery = 50.49%								
Si 251.611†	85.9	0.1591	mg/L	0.00764	0.1591	mg/L	0.00764	4.80%
QC value within limits for Si 251.611 Recovery = 79.56%								
Sn 189.927†	84.4	0.0187	mg/L	0.00051	0.0187	mg/L	0.00051	2.74%

```
   QC value within limits for Sn 189.927  Recovery = 93.45%
Tl 190.801†              30.2      0.0212 mg/L       0.00112      0.0212 mg/L       0.00112   5.27%
   QC value within limits for Tl 190.801  Recovery = 106.22%
V 292.402†              908.7      0.0089 mg/L       0.00016      0.0089 mg/L       0.00016   1.80%
   QC value within limits for V 292.402  Recovery = 89.31%
Zn 213.857†            1740.5      0.0284 mg/L       0.00064      0.0284 mg/L       0.00064   2.25%
   QC value within limits for Zn 213.857  Recovery = 94.66%
Ti 334.940†            7184.5      0.0099 mg/L       0.00036      0.0099 mg/L       0.00036   3.60%
   QC value within limits for Ti 334.940  Recovery = 99.36%
B 249.772†              215.5      0.1748 mg/L       0.00385      0.1748 mg/L       0.00385   2.20%
   QC value within limits for B 249.772  Recovery = 87.40%
Na 589.592†            2660.8      0.5499 mg/L       0.01872      0.5499 mg/L       0.01872   3.40%
   QC value within limits for Na 589.592  Recovery = 109.99%
K 766.490†              532.3      0.5286 mg/L       0.02803      0.5286 mg/L       0.02803   5.30%
   QC value within limits for K 766.490  Recovery = 105.72%
Li 670.784†             551.8     0.01633 mg/L      0.000912     0.01633 mg/L      0.000912   5.58%
   QC value within limits for Li 670.784  Recovery = 108.86%
Sr 407.771†            4752.5     0.01011 mg/L      0.000107     0.01011 mg/L      0.000107   1.06%
   QC value within limits for Sr 407.771  Recovery = 101.10%
QC Failed.  Continue with analysis.
```

Sample Information Detail Report
Document Name: 110414ICP11

File Description
Default Sample Information File

Parameters Common to All Samples

Analyst Name	388
YTTRIUM	14J27640
CAL STD	14J27638
ICV STD	14J27639
CCV STD	14J27642
ICSA/B	14J27643/644

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Vol.
1	18	ICSA	
2	19	ICSAB	
3	71	BLANK WG752284	
4	72	LCS WG752284	
5	73	LCSD WG752284	
6	74	L729547-01 WG752284	
7	75	SD L729547-01 WG752	
8	76	MS L729547-01 WG752	
9	77	MSD L729547-01 WG75	
10	78	L729547-02 WG752284	
11	79	L729547-03 WG752284	
12	80	L729547-04 WG752284	
13	81	L729547-05 WG752284	
14	82	L729547-06 WG752284	
15	83	L729547-07 WG752284	
16	84	L729547-08 WG752284	
17	85	L729547-09 WG752284	
18	86	L729547-10 WG752284	
19	87	L729547-11 WG752284	
20	88	L729547-12 WG752284	
21	89	L729547-13 WG752284	
22	90	L729547-14 WG752284	
23	91	L729547-15 WG752284	
24	92	L729547-17 WG752284	
25	93	L729547-03 WG752284	
26	94	L729547-04 WG752284	
27	95	L729547-06 WG752284	
28	96	L729547-15 WG752284	
29	97	L729547-17 WG752284	
30	131	BLANK WG752045	
31	132	LCS WG752045	
32	133	LCSD WG752045	
33	134	L729563-01 WG752045	
34	135	SD L729563-01 WG752	
35	136	MS L729563-01 WG752	
36	137	MSD L729563-01 WG75	
37	138	L729563-02 WG752045	
38	139	L729563-04 WG752045	
39	140	L729563-05 WG752045	
40	141	L729563-06 WG752045	
41	142	L729564-01 WG752045	
42	143	L729564-02 WG752045	
43	144	L729564-04 WG752045	
44	145	L729564-05 WG752045	
45	0	INSTBLK	
46	191	L729026-01 WG752044	
47	192	L729026-02 WG752044	
48	193	L729026-03 WG752044	
49	194	L729026-05 WG752044	

50	195	L729026-06 WG752044
51	196	L729030-01 WG752044
52	197	L729030-02 WG752044
53	198	L729030-04 WG752044
54	199	L729030-05 WG752044
60	71	BLANK WG751509
61	72	LCS WG751509
62	73	LCSD WG751509
63	74	L730289-81 WG751509
64	75	SD L730289-81 WG751
65	77	MS L730289-81 WG751
66	78	MSD L730289-81 WG75
67	79	L730289-82 WG751509
68	80	L730289-83 WG751509
69	81	L730289-84 WG751509
70	82	L730289-85 WG751509
71	83	L730289-86 WG751509
72	84	L730289-87 WG751509
73	85	L730289-88 WG751509
74	86	L730289-89 WG751509
75	87	L730289-90 WG751509
76	88	L730289-91 WG751509
77	89	L730303-01 WG751509
78	90	L730303-02 WG751509
79	91	L730303-03 WG751509
80	92	L730303-04 WG751509
81	93	L730303-05 WG751509
83	131	BLANK WG752060
84	132	LCS WG752060
85	133	LCSD WG752060
87	191	BLANK WG751989
88	192	LCS WG751989
89	193	LCSD WG751989
90	194	L730632-03 WG751989
91	195	SD L730632-03 WG751
92	196	PS L730632-03 WG751
93	197	MS L730632-03 WG751
94	198	MSD L730632-03 WG75
95	199	L730415-01 WG751989
96	200	L730415-02 WG751989
97	201	L730447-01 WG751989
98	202	L730622-03 WG751989
99	203	L730622-04 WG751989
100	204	L730622-05 WG751989
101	205	L730622-06 WG751989
102	206	L730622-07 WG751989
103	207	L730632-01 WG751989
104	208	L730632-02 WG751989
105	209	L730632-04 WG751989
106	210	L730632-05 WG751989
108	211	L730796-08 WG751989
109	212	L730796-09 WG751989
110	213	L730796-10 WG751989
111	214	L730796-11 WG751989
112	215	L730796-12 WG751989
113	216	L730796-13 WG751989
114	217	L730622-03 WG751989
115	218	L730622-04 WG751989
116	219	L730622-05 WG751989
117	220	L730622-06 WG751989
118	221	L730622-07 WG751989
121	71	L730796-08 WG751989
122	72	L730796-09 WG751989
123	73	L730796-10 WG751989

124	74	L730796-11 WG751989
125	75	L730796-12 WG751989
126	76	L730796-13 WG751989
127	77	L730622-03 WG751989
128	78	L730622-04 WG751989
129	79	L730622-05 WG751989
130	80	L730622-06 WG751989
131	81	L730622-07 WG751989
133	0	INSTBLK
134	18	ICSA
135	19	ICSAB
136	0	INSTBLK

Sample No	Initial Sample Wt.	Volume Units	Weight Units
1		mL	g
2		mL	g
3	0.5	mL	g
4	0.48	mL	g
5	0.49	mL	g
6	0.48	mL	g
7	0.48	mL	g
8	0.49	mL	g
9	0.53	mL	g
10	0.47	mL	g
11	0.48	mL	g
12	0.45	mL	g
13	0.53	mL	g
14	0.46	mL	g
15	0.53	mL	g
16	0.5	mL	g
17	0.55	mL	g
18	0.55	mL	g
19	0.48	mL	g
20	0.48	mL	g
21	0.52	mL	g
22	0.5	mL	g
23	0.55	mL	g
24	0.46	mL	g
25	0.48	mL	g
26	0.45	mL	g
27	0.46	mL	g
28	0.55	mL	g
29	0.46	mL	g
30	0.5	mL	g
31	0.5	mL	g
32	0.5	mL	g
33	0.51	mL	g
34	0.51	mL	g
35	0.51	mL	g
36	0.5	mL	g
37	0.51	mL	g
38	0.49	mL	g
39	0.5	mL	g
40	0.49	mL	g
41	0.49	mL	g
42	0.49	mL	g
43	0.51	mL	g
44	0.48	mL	g
45		mL	g
46	0.5	mL	g
47	0.52	mL	g
48	0.53	mL	g
49	0.52	mL	g
50	0.55	mL	g

51	0.55	mL	g
52	0.54	mL	g
53	0.51	mL	g
54	0.51	mL	g
60	0.54	mL	g
61	0.5	mL	g
62	0.5	mL	g
63	0.51	mL	g
64	0.51	mL	g
65	0.5	mL	g
66	0.53	mL	g
67	0.53	mL	g
68	0.52	mL	g
69	0.54	mL	g
70	0.51	mL	g
71	0.49	mL	g
72	0.51	mL	g
73	0.52	mL	g
74	0.5	mL	g
75	0.5	mL	g
76	0.54	mL	g
77	0.51	mL	g
78	0.55	mL	g
79	0.54	mL	g
80	0.5	mL	g
81	0.52	mL	g
83	0.5	mL	g
84	0.5	mL	g
85	0.5	mL	g
87	0.51	mL	g
88	0.5	mL	g
89	0.5	mL	g
90	0.48	mL	g
91	0.48	mL	g
92	0.48	mL	g
93	0.5	mL	g
94	0.49	mL	g
95	0.54	mL	g
96	0.53	mL	g
97	5	mL	g
98	0.52	mL	g
99	0.53	mL	g
100	0.5	mL	g
101	0.48	mL	g
102	0.5	mL	g
103	0.51	mL	g
104	0.47	mL	g
105	0.49	mL	g
106	0.51	mL	g
108	0.51	mL	g
109	0.5	mL	g
110	0.5	mL	g
111	0.51	mL	g
112	0.47	mL	g
113	0.53	mL	g
114	0.52	mL	g
115	0.53	mL	g
116	0.5	mL	g
117	0.48	mL	g
118	0.5	mL	g
121	0.51	mL	g
122	0.5	mL	g
123	0.5	mL	g
124	0.51	mL	g

125	0.47	mL	g
126	0.53	mL	g
127	0.52	mL	g
128	0.53	mL	g
129	0.5	mL	g
130	0.48	mL	g
131	0.5	mL	g
133		mL	g
134		mL	g
135		mL	g
136		mL	g

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
1			
2			
3	50		
4	50		
5	50		
6	50		
7	50	1	5
8	50		
9	50		
10	50		
11	50		
12	50		
13	50		
14	50		
15	50		
16	50		
17	50		
18	50		
19	50		
20	50		
21	50		
22	50		
23	50		
24	50		
25	50	1	100
26	50	1	100
27	50	1	100
28	50	1	100
29	50	1	100
30	50		
31	50		
32	50		
33	50	1	5
34	50	1	25
35	50	1	5
36	50	1	5
37	50	1	5
38	50	1	5
39	50	1	5
40	50	1	5
41	50	1	5
42	50	1	5
43	50	1	5
44	50	1	5
45			
46	50	1	5
47	50	1	5
48	50	1	5
49	50	1	5
50	50	1	5
51	50	1	5

52	50	1	5
53	50	1	5
54	50	1	5
60	50		
61	55		
62	55		
63	50		
64	50	1	5
65	50		
66	50		
67	50		
68	50		
69	50		
70	50		
71	50		
72	50		
73	50		
74	50		
75	50		
76	50		
77	50		
78	50		
79	50		
80	50		
81	50		
83	50		
84	50		
85	50		
87	50		
88	50		
89	50		
90	50		
91	50	1	5
92	50		
93	50		
94	50		
95	50		
96	50		
97	50		
98	50		
99	50		
100	50		
101	50		
102	50		
103	50		
104	50		
105	50		
106	50		
108	50		
109	50		
110	50		
111	50		
112	50		
113	50		
114	50	1	2
115	50	1	2
116	50	1	2
117	50	1	2
118	50	1	2
121	50		
122	50		
123	50		
124	50		
125	50		

126	50		
127	50	1	2
128	50	1	2
129	50	1	2
130	50	1	2
131	50	1	2
133			
134			
135			
136			

Sample No	Remarks	Sample Units *	Batch ID
1		mg/L	
2		mg/L	
3	SS	mg/kg	388/388
4	SS	mg/kg	388/388
5	SS	mg/kg	388/388
6	SS	mg/kg	388/388
7	SS	mg/kg	388/388
8	SS	mg/kg	388/388
9	SS	mg/kg	388/388
10	SS	mg/kg	388/388
11	SS	mg/kg	388/388
12	SS	mg/kg	388/388
13	SS	mg/kg	388/388
14	SS	mg/kg	388/388
15	SS	mg/kg	388/388
16	SS	mg/kg	388/388
17	SS	mg/kg	388/388
18	SS	mg/kg	388/388
19	SS	mg/kg	388/388
20	SS	mg/kg	388/388
21	SS	mg/kg	388/388
22	SS	mg/kg	388/388
23	SS	mg/kg	388/388
24	SS	mg/kg	388/388
25	SS	mg/kg	388/388
26	SS	mg/kg	388/388
27	SS	mg/kg	388/388
28	SS	mg/kg	388/388
29	SS	mg/kg	388/388
30	SS	mg/kg	388/388
31	SS	mg/kg	388/388
32	SS	mg/kg	388/388
33	SS	mg/kg	388/388
34	SS	mg/kg	388/388
35	SS	mg/kg	388/388
36	SS	mg/kg	388/388
37	SS	mg/kg	388/388
38	SS	mg/kg	388/388
39	SS	mg/kg	388/388
40	SS	mg/kg	388/388
41	SS	mg/kg	388/388
42	SS	mg/kg	388/388
43	SS	mg/kg	388/388
44	SS	mg/kg	388/388
45		mg/L	
46	SS	mg/kg	388/388
47	SS	mg/kg	388/388
48	SS	mg/kg	388/388
49	SS	mg/kg	388/388
50	SS	mg/kg	388/388
51	SS	mg/kg	388/388
52	SS	mg/kg	388/388

53	SS	mg/kg	388/388
54	SS	mg/kg	388/388
60	SS	mg/kg	388/388
61	SS	mg/kg	388/388
62	SS	mg/kg	388/388
63	SS	mg/kg	388/388
64	SS	mg/kg	388/388
65	SS	mg/kg	388/388
66	SS	mg/kg	388/388
67	SS	mg/kg	388/388
68	SS	mg/kg	388/388
69	SS	mg/kg	388/388
70	SS	mg/kg	388/136
71	SS	mg/kg	388/136
72	SS	mg/kg	388/136
73	SS	mg/kg	388/136
74	SS	mg/kg	388/136
75	SS	mg/kg	388/136
76	SS	mg/kg	388/136
77	SS	mg/kg	388/136
78	SS	mg/kg	388/136
79	SS	mg/kg	388/136
80	SS	mg/kg	388/136
81	SS	mg/kg	388/136
83	SS	mg/kg	136/136
84	SS	mg/kg	136/136
85	SS	mg/kg	136/136
87	SS	mg/kg	136/136
88	SS	mg/kg	136/136
89	SS	mg/kg	136/136
90	SS	mg/kg	136/136
91	SS	mg/kg	136/136
92	SS	mg/kg	136/136
93	SS	mg/kg	136/136
94	SS	mg/kg	136/136
95	SS	mg/kg	136/136
96	SS	mg/kg	136/136
97	SS	mg/kg	136/136
98	SS	mg/kg	136/136
99	SS	mg/kg	136/136
100	SS	mg/kg	136/136
101	SS	mg/kg	136/136
102	SS	mg/kg	136/136
103	SS	mg/kg	136/136
104	SS	mg/kg	136/136
105	SS	mg/kg	136/136
106	SS	mg/kg	136/136
108	SS	mg/kg	136/136
109	SS	mg/kg	136/136
110	SS	mg/kg	136/136
111	SS	mg/kg	136/136
112	SS	mg/kg	136/136
113	SS	mg/kg	136/136
114	SS	mg/kg	136/136
115	SS	mg/kg	136/136
116	SS	mg/kg	136/136
117	SS	mg/kg	136/136
118	SS	mg/kg	136/136
121	SS	mg/kg	136/136
122	SS	mg/kg	136/136
123	SS	mg/kg	136/136
124	SS	mg/kg	136/136
125	SS	mg/kg	136/136
126	SS	mg/kg	136/136

127	SS	mg/kg	136/136
128	SS	mg/kg	136/136
129	SS	mg/kg	136/136
130	SS	mg/kg	136/136
131	SS	mg/kg	136/136
133		mg/L	
134		mg/L	
135		mg/L	
136		mg/L	

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Analysis Begun

Start Time: 11/4/2014 7:34:11 AM
Logged In Analyst: ICP11
Spectrometer: Optima 8300 , S/N 078S1402113
Plasma On Time: 11/4/2014 6:06:41 AM
Technique: ICP Continuous
Autosampler: Cetac

Sample Information File: C:\pe\ICP11\Sample Information\110414ICP11.sif
Batch ID:
Results Data Set: 110414ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Method Loaded
Method Name: IT11K04N
IEC File: 091614ICP11_IEC.iec
Method Description:
Method Last Saved: 11/4/2014 7:34:05 AM
MSF File:

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Sequence No.: 1
Sample ID: CALBLK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 11
Date Collected: 11/4/2014 7:34:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CALBLK

Analyte	Back Pressure	Flow
All	194.0 kPa	0.55 L/min

Mean Data: CALBLK

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2579902.7	14526.02	0.56%	100.0	mg/L
Y 360.073 R	58637.0	617.37	1.05%	10.00	mg/L
Ag 328.068†	-2164.1	20.90	0.97%	[0.00]	mg/L
Al 308.215†	94.0	4.13	4.39%	[0.00]	mg/L
As 188.979†	-21.2	2.37	11.22%	[0.00]	mg/L
Ba 233.527†	-49.3	1.59	3.22%	[0.00]	mg/L
Be 313.107†	646.3	57.12	8.84%	[0.00]	mg/L
Ca 315.887†	-29310.1	86.31	0.29%	[0.00]	mg/L
Cd 214.440†	676.0	12.28	1.82%	[0.00]	mg/L
Co 228.616†	-241.2	6.10	2.53%	[0.00]	mg/L
Cr 205.560†	-73.5	9.56	13.00%	[0.00]	mg/L
Cu 324.752†	3119.5	37.02	1.19%	[0.00]	mg/L
Fe 238.863†	188.0	3.10	1.65%	[0.00]	mg/L
Mg 279.077†	-68.1	23.69	34.80%	[0.00]	mg/L
Mn 257.610†	1242.1	22.27	1.79%	[0.00]	mg/L
Mo 202.031†	60.8	3.58	5.88%	[0.00]	mg/L
Ni 232.003†	-944.8	14.65	1.55%	[0.00]	mg/L
Pb 220.353†	58.8	7.43	12.64%	[0.00]	mg/L
Sb 206.836†	82.1	4.46	5.43%	[0.00]	mg/L
Se 196.026†	85.8	5.35	6.23%	[0.00]	mg/L
Si 251.611†	71.5	2.94	4.12%	[0.00]	mg/L
Sn 189.927†	48.8	6.51	13.33%	[0.00]	mg/L
Tl 190.801†	-30.7	0.77	2.52%	[0.00]	mg/L
V 292.402†	45.8	80.08	175.02%	[0.00]	mg/L
Zn 213.857†	284.5	7.55	2.66%	[0.00]	mg/L
Ti 334.940†	217.9	99.55	45.68%	[0.00]	mg/L
B 249.772†	6.9	1.98	28.62%	[0.00]	mg/L
Na 589.592†	520.2	102.82	19.76%	[0.00]	mg/L
K 766.490†	562.5	80.13	14.24%	[0.00]	mg/L
Li 670.784†	377.3	30.44	8.07%	[0.00]	mg/L
Sr 407.771†	-182.3	13.92	7.63%	[0.00]	mg/L

Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 2 **Autosampler Location: 12**
Sample ID: STD1 14J27638 **Date Collected: 11/4/2014 7:39:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD1 14J27638

Analyte	Back Pressure	Flow
All	194.0 kPa	0.55 L/min

Mean Data: STD1 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2539675.0	21281.48	0.84%	98.44	mg/L
Y 360.073 R	58407.6	442.65	0.76%	9.961	mg/L
Ag 328.068†	1711.2	73.16	4.28%	[0.01]	mg/L
Al 308.215†	50.8	10.57	20.80%	[0.1]	mg/L
As 188.979†	16.5	5.78	35.08%	[0.02]	mg/L
Ba 233.527†	439.4	7.16	1.63%	[0.005]	mg/L
Be 313.107†	3277.0	69.58	2.12%	[0.002]	mg/L
Ca 315.887†	32261.5	436.25	1.35%	[0.5]	mg/L
Cd 214.440†	356.1	10.45	2.93%	[0.005]	mg/L
Co 228.616†	316.2	8.10	2.56%	[0.01]	mg/L
Cr 205.560†	253.4	8.21	3.24%	[0.01]	mg/L
Cu 324.752†	3170.1	162.41	5.12%	[0.02]	mg/L
Fe 238.863†	1929.5	17.86	0.93%	[0.1]	mg/L
Mg 279.077†	740.9	17.42	2.35%	[0.1]	mg/L
Mn 257.610†	6548.8	214.61	3.28%	[0.01]	mg/L
Mo 202.031†	60.1	3.81	6.35%	[0.005]	mg/L
Ni 232.003†	144.2	11.25	7.80%	[0.02]	mg/L
Pb 220.353†	16.9	5.04	29.85%	[0.005]	mg/L
Sb 206.836†	40.0	9.22	23.03%	[0.02]	mg/L
Se 196.026†	24.6	4.35	17.67%	[0.02]	mg/L
Si 251.611†	9.3	3.03	32.62%	[0.02]	mg/L
Sn 189.927†	92.1	1.71	1.85%	[0.02]	mg/L
Tl 190.801†	34.9	3.78	10.83%	[0.02]	mg/L
V 292.402†	1012.1	80.84	7.99%	[0.01]	mg/L
Zn 213.857†	1832.1	19.75	1.08%	[0.03]	mg/L
Ti 334.940†	7422.5	152.43	2.05%	[0.01]	mg/L
B 249.772†	18.5	3.03	16.39%	[0.02]	mg/L
Na 589.592†	2422.6	38.44	1.59%	[0.5]	mg/L
K 766.490†	458.1	25.68	5.61%	[0.5]	mg/L
Li 670.784†	436.0	13.96	3.20%	[0.015]	mg/L
Sr 407.771†	4663.8	45.80	0.98%	[0.01]	mg/L

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 3 **Autosampler Location: 13**
Sample ID: STD2 14J27638 **Date Collected: 11/4/2014 7:44:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD2 14J27638

Analyte	Back Pressure	Flow
All	194.0 kPa	0.55 L/min

Mean Data: STD2 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2580116.2	39021.95	1.51%	100.0	mg/L
Y 360.073 R	56276.7	716.42	1.27%	9.597	mg/L
Ag 328.068†	33869.8	186.73	0.55%	[0.2]	mg/L
Al 308.215†	778.6	4.49	0.58%	[2]	mg/L
As 188.979†	354.4	4.04	1.14%	[0.4]	mg/L
Ba 233.527†	8407.0	91.48	1.09%	[0.1]	mg/L
Be 313.107†	68321.9	460.08	0.67%	[0.04]	mg/L
Ca 315.887†	637087.7	1257.04	0.20%	[10]	mg/L
Cd 214.440†	6871.7	43.79	0.64%	[0.1]	mg/L
Co 228.616†	6297.7	30.83	0.49%	[0.2]	mg/L
Cr 205.560†	5031.8	70.88	1.41%	[0.2]	mg/L
Cu 324.752†	64101.9	268.19	0.42%	[0.4]	mg/L
Fe 238.863†	35632.9	246.72	0.69%	[2]	mg/L
Mg 279.077†	13518.6	129.18	0.96%	[2]	mg/L
Mn 257.610†	135855.8	1028.29	0.76%	[0.2]	mg/L
Mo 202.031†	1131.3	18.84	1.67%	[0.1]	mg/L
Ni 232.003†	3110.8	47.64	1.53%	[0.4]	mg/L
Pb 220.353†	372.5	9.28	2.49%	[0.1]	mg/L
Sb 206.836†	787.2	2.83	0.36%	[0.4]	mg/L
Se 196.026†	418.1	20.72	4.95%	[0.4]	mg/L
Si 251.611†	213.1	3.30	1.55%	[0.4]	mg/L
Sn 189.927†	1803.2	32.40	1.80%	[0.4]	mg/L
Tl 190.801†	589.4	9.20	1.56%	[0.4]	mg/L
V 292.402†	20194.8	91.98	0.46%	[0.2]	mg/L
Zn 213.857†	35493.7	278.34	0.78%	[0.6]	mg/L
Ti 334.940†	144261.1	63.16	0.04%	[0.2]	mg/L
B 249.772†	456.7	10.09	2.21%	[0.4]	mg/L
Na 589.592†	50627.2	33.97	0.07%	[10]	mg/L
K 766.490†	9212.4	51.11	0.55%	[10]	mg/L
Li 670.784†	10049.7	34.37	0.34%	[0.3]	mg/L
Sr 407.771†	95246.7	177.42	0.19%	[0.2]	mg/L

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 4 **Autosampler Location: 14**
Sample ID: STD3 14J27638 **Date Collected: 11/4/2014 7:49:14 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD3 14J27638

Analyte	Back Pressure	Flow
All	194.0 kPa	0.55 L/min

Mean Data: STD3 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2545543.7	23044.83	0.91%	98.67	mg/L
Y 360.073 R	55847.1	1436.01	2.57%	9.524	mg/L
Ag 328.068†	163120.6	83.67	0.05%	[1]	mg/L
Al 308.215†	3793.0	42.50	1.12%	[10]	mg/L
As 188.979†	1773.2	15.31	0.86%	[2]	mg/L
Ba 233.527†	41154.1	130.12	0.32%	[0.5]	mg/L
Be 313.107†	333693.3	445.18	0.13%	[0.2]	mg/L
Ca 315.887†	3280226.6	2668.86	0.08%	[50]	mg/L
Cd 214.440†	34000.1	140.58	0.41%	[0.5]	mg/L
Co 228.616†	31948.2	449.30	1.41%	[1]	mg/L
Cr 205.560†	24367.9	334.64	1.37%	[1]	mg/L
Cu 324.752†	310070.7	366.43	0.12%	[2]	mg/L
Fe 238.863†	171973.2	237.07	0.14%	[10]	mg/L
Mg 279.077†	66048.7	95.79	0.15%	[10]	mg/L
Mn 257.610†	639508.7	555.89	0.09%	[1]	mg/L
Mo 202.031†	5485.7	81.82	1.49%	[0.5]	mg/L
Ni 232.003†	15221.5	181.21	1.19%	[2]	mg/L
Pb 220.353†	1785.6	21.69	1.21%	[0.5]	mg/L
Sb 206.836†	3900.6	46.96	1.20%	[2]	mg/L
Se 196.026†	2078.8	39.34	1.89%	[2]	mg/L
Si 251.611†	1051.2	11.84	1.13%	[2]	mg/L
Sn 189.927†	8825.6	125.00	1.42%	[2]	mg/L
Tl 190.801†	2859.1	40.92	1.43%	[2]	mg/L
V 292.402†	98257.9	268.44	0.27%	[1]	mg/L
Zn 213.857†	174463.4	471.87	0.27%	[3]	mg/L
Ti 334.940†	719274.6	851.91	0.12%	[1]	mg/L
B 249.772†	2292.9	10.36	0.45%	[2]	mg/L
Na 589.592†	251008.1	1190.38	0.47%	[50]	mg/L
K 766.490†	48700.1	178.75	0.37%	[50]	mg/L
Li 670.784†	51513.1	159.39	0.31%	[1.5]	mg/L
Sr 407.771†	477940.7	864.44	0.18%	[1]	mg/L

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 5 **Autosampler Location: 15**
Sample ID: STD4 14J27638 **Date Collected: 11/4/2014 7:54:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: STD4 14J27638

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: STD4 14J27638

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2437049.9	35876.19	1.47%	94.46	mg/L
Y 360.073 R	56443.4	605.73	1.07%	9.626	mg/L
Ag 328.068†	432790.2	6157.53	1.42%	[2.5]	mg/L
Al 308.215†	10066.9	184.78	1.84%	[25]	mg/L
As 188.979†	4667.7	95.56	2.05%	[5]	mg/L
Ba 233.527†	104282.9	1399.92	1.34%	[1.25]	mg/L
Be 313.107†	856829.8	460.07	0.05%	[0.5]	mg/L
Ca 315.887†	8442091.9	17679.13	0.21%	[125]	mg/L
Cd 214.440†	86237.3	1062.34	1.23%	[1.25]	mg/L
Co 228.616†	77293.0	1061.14	1.37%	[2.5]	mg/L
Cr 205.560†	58972.2	828.92	1.41%	[2.5]	mg/L
Cu 324.752†	827163.1	11648.86	1.41%	[5]	mg/L
Fe 238.863†	447216.6	5937.89	1.33%	[25]	mg/L
Mg 279.077†	169228.8	2452.99	1.45%	[25]	mg/L
Mn 257.610†	1614892.5	1235.65	0.08%	[2.5]	mg/L
Mo 202.031†	14200.8	290.51	2.05%	[1.25]	mg/L
Ni 232.003†	37671.7	434.12	1.15%	[5]	mg/L
Pb 220.353†	4554.8	94.82	2.08%	[1.25]	mg/L
Sb 206.836†	10232.4	208.85	2.04%	[5]	mg/L
Se 196.026†	5466.8	143.75	2.63%	[5]	mg/L
Si 251.611†	2735.7	49.05	1.79%	[5]	mg/L
Sn 189.927†	22962.1	481.57	2.10%	[5]	mg/L
Tl 190.801†	7209.8	149.74	2.08%	[5]	mg/L
V 292.402†	253852.9	3819.54	1.50%	[2.5]	mg/L
Zn 213.857†	463262.6	6004.07	1.30%	[7.5]	mg/L
Ti 334.940†	1826302.8	2436.66	0.13%	[2.5]	mg/L
B 249.772†	6124.2	95.35	1.56%	[5]	mg/L
Na 589.592†	623629.5	1240.43	0.20%	[125]	mg/L
K 766.490†	127453.5	562.78	0.44%	[125]	mg/L
Li 670.784†	131361.0	330.37	0.25%	[3.75]	mg/L
Sr 407.771†	1197875.5	1879.86	0.16%	[2.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	171700	0.00000	0.999799	
Al 308.215	4	Lin Thru 0	0.0	399.4	0.00000	0.999795	
As 188.979	4	Lin Thru 0	0.0	926.8	0.00000	0.999843	
Ba 233.527	4	Lin Thru 0	0.0	83280	0.00000	0.999989	
Be 313.107	4	Lin Thru 0	0.0	1707000	0.00000	0.999959	
Ca 315.887	4	Lin Thru 0	0.0	67250	0.00000	0.999944	
Cd 214.440	4	Lin Thru 0	0.0	68850	0.00000	0.999988	
Co 228.616	4	Lin Thru 0	0.0	31060	0.00000	0.999934	
Cr 205.560	4	Lin Thru 0	0.0	23700	0.00000	0.999926	
Cu 324.752	4	Lin Thru 0	0.0	164000	0.00000	0.999761	
Fe 238.863	4	Lin Thru 0	0.0	17790	0.00000	0.999911	
Mg 279.077	4	Lin Thru 0	0.0	6747	0.00000	0.999965	

Mn 257.610	4	Lin Thru 0	0.0	645300	0.00000	0.999986
Mo 202.031	4	Lin Thru 0	0.0	11310	0.00000	0.999930
Ni 232.003	4	Lin Thru 0	0.0	7546	0.00000	0.999991
Pb 220.353	4	Lin Thru 0	0.0	3634	0.00000	0.999975
Sb 206.836	4	Lin Thru 0	0.0	2033	0.00000	0.999865
Se 196.026	4	Lin Thru 0	0.0	1086	0.00000	0.999850
Si 251.611	4	Lin Thru 0	0.0	544.1	0.00000	0.999906
Sn 189.927	4	Lin Thru 0	0.0	4567	0.00000	0.999908
Tl 190.801	4	Lin Thru 0	0.0	1440	0.00000	0.999994
V 292.402	4	Lin Thru 0	0.0	101100	0.00000	0.999938
Zn 213.857	4	Lin Thru 0	0.0	61260	0.00000	0.999791
Ti 334.940	4	Lin Thru 0	0.0	728900	0.00000	0.999986
B 249.772	4	Lin Thru 0	0.0	1214	0.00000	0.999743
Na 589.592	4	Lin Thru 0	0.0	4994	0.00000	0.999997
K 766.490	4	Lin Thru 0	0.0	1013	0.00000	0.999857
Li 670.784	4	Lin Thru 0	0.0	34930	0.00000	0.999972
Sr 407.771	4	Lin Thru 0	0.0	479000	0.00000	1.000000

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 6 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/4/2014 8:00:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICV 14J27639

Analyte	Back Pressure	Flow
All	196.0 kPa	0.55 L/min

Mean Data: ICV 14J27639

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2582662.1	100.1	mg/L	1.43				1.43%
Y 360.073 R	57975.7	9.887	mg/L	0.1684				1.70%
Ag 328.068†	16502.1	0.09822	mg/L	0.001596	0.09822	mg/L	0.001596	1.63%
QC value within limits for Ag 328.068 Recovery = 98.22%								
Al 308.215†	3895.5	9.735	mg/L	0.1115	9.735	mg/L	0.1115	1.15%
QC value within limits for Al 308.215 Recovery = 97.35%								
As 188.979†	898.9	0.9680	mg/L	0.00728	0.9680	mg/L	0.00728	0.75%
QC value within limits for As 188.979 Recovery = 96.80%								
Ba 233.527†	84259.2	1.011	mg/L	0.0186	1.011	mg/L	0.0186	1.84%
QC value within limits for Ba 233.527 Recovery = 101.13%								
Be 313.107†	1700375.5	0.9959	mg/L	0.00175	0.9959	mg/L	0.00175	0.18%
QC value within limits for Be 313.107 Recovery = 99.59%								
Ca 315.887†	638845.5	9.505	mg/L	0.0171	9.505	mg/L	0.0171	0.18%
QC value within limits for Ca 315.887 Recovery = 95.05%								
Cd 214.440†	70072.5	1.017	mg/L	0.0192	1.017	mg/L	0.0192	1.89%
QC value within limits for Cd 214.440 Recovery = 101.71%								
Co 228.616†	31726.3	1.021	mg/L	0.0204	1.021	mg/L	0.0204	2.00%
QC value within limits for Co 228.616 Recovery = 102.14%								
Cr 205.560†	23836.3	1.005	mg/L	0.0169	1.005	mg/L	0.0169	1.68%
QC value within limits for Cr 205.560 Recovery = 100.53%								
Cu 324.752†	161627.6	0.9860	mg/L	0.01957	0.9860	mg/L	0.01957	1.98%
QC value within limits for Cu 324.752 Recovery = 98.60%								
Fe 238.863†	181090.1	10.18	mg/L	0.179	10.18	mg/L	0.179	1.76%
QC value within limits for Fe 238.863 Recovery = 101.77%								
Mg 279.077†	68762.8	10.19	mg/L	0.173	10.19	mg/L	0.173	1.70%
QC value within limits for Mg 279.077 Recovery = 101.86%								
Mn 257.610†	647319.1	1.003	mg/L	0.0008	1.003	mg/L	0.0008	0.08%
QC value within limits for Mn 257.610 Recovery = 100.28%								
Mo 202.031†	11772.6	1.042	mg/L	0.0052	1.042	mg/L	0.0052	0.50%
QC value within limits for Mo 202.031 Recovery = 104.18%								
Ni 232.003†	8144.6	1.080	mg/L	0.0050	1.080	mg/L	0.0050	0.46%
QC value greater than the upper limit for Ni 232.003 Recovery = 108.03%								
Pb 220.353†	3781.8	1.040	mg/L	0.0071	1.040	mg/L	0.0071	0.68%
QC value within limits for Pb 220.353 Recovery = 104.05%								
Sb 206.836†	2005.4	0.9895	mg/L	0.00887	0.9895	mg/L	0.00887	0.90%
QC value within limits for Sb 206.836 Recovery = 98.95%								
Se 196.026†	1043.2	0.9650	mg/L	0.01384	0.9650	mg/L	0.01384	1.43%
QC value within limits for Se 196.026 Recovery = 96.50%								
Si 251.611†	544.8	1.002	mg/L	0.0149	1.002	mg/L	0.0149	1.49%
QC value within limits for Si 251.611 Recovery = 100.17%								
Sn 189.927†	4578.8	1.004	mg/L	0.0043	1.004	mg/L	0.0043	0.43%
QC value within limits for Sn 189.927 Recovery = 100.39%								
Tl 190.801†	1481.9	1.027	mg/L	0.0054	1.027	mg/L	0.0054	0.53%
QC value within limits for Tl 190.801 Recovery = 102.69%								
V 292.402†	101535.3	1.004	mg/L	0.0185	1.004	mg/L	0.0185	1.84%
QC value within limits for V 292.402 Recovery = 100.36%								
Zn 213.857†	59212.4	0.9650	mg/L	0.01688	0.9650	mg/L	0.01688	1.75%
QC value within limits for Zn 213.857 Recovery = 96.50%								

Ti 334.940†	728872.6	0.9996 mg/L	0.00113	0.9996 mg/L	0.00113	0.11%
QC value within limits for Ti 334.940 Recovery = 99.96%						
B 249.772†	1219.7	0.9830 mg/L	0.01336	0.9830 mg/L	0.01336	1.36%
QC value within limits for B 249.772 Recovery = 98.30%						
Na 589.592†	51254.0	10.26 mg/L	0.019	10.26 mg/L	0.019	0.18%
QC value within limits for Na 589.592 Recovery = 102.60%						
K 766.490†	9722.3	9.599 mg/L	0.0591	9.599 mg/L	0.0591	0.62%
QC value within limits for K 766.490 Recovery = 95.99%						
Li 670.784†	33870.5	0.9697 mg/L	0.00298	0.9697 mg/L	0.00298	0.31%
QC value within limits for Li 670.784 Recovery = 96.97%						
Sr 407.771†	195251.4	0.4075 mg/L	0.00124	0.4075 mg/L	0.00124	0.30%
QC value within limits for Sr 407.771 Recovery = 101.88%						

QC Failed. Stop the analysis.

Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:
Analysis canceled by a QC failure action: 'Stop'.

Analysis Begun

Start Time: 11/4/2014 8:07:41 AM **Plasma On Time: 11/4/2014 6:06:41 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110414ICP11.sif
Batch ID:
Results Data Set: 110414ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICVLL 14J27641 **Date Collected: 11/4/2014 8:07:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICVLL 14J27641

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: ICVLL 14J27641

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2531301.8	98.12	mg/L	1.830				1.87%
Y 360.073 R	58557.8	9.986	mg/L	0.3126				3.13%
Ag 328.068†	1843.2	0.01075	mg/L	0.000596	0.01075	mg/L	0.000596	5.54%
QC value within limits for Ag 328.068 Recovery = 107.52%								
Al 308.215†	43.6	0.1090	mg/L	0.01237	0.1090	mg/L	0.01237	11.35%
QC value within limits for Al 308.215 Recovery = 108.95%								
As 188.979†	11.4	0.0123	mg/L	0.00944	0.0123	mg/L	0.00944	77.06%
QC value within limits for As 188.979 Recovery = 61.27%								
Ba 233.527†	441.9	0.0053	mg/L	0.00014	0.0053	mg/L	0.00014	2.73%
QC value within limits for Ba 233.527 Recovery = 106.02%								
Be 313.107†	3273.5	0.00192	mg/L	0.000058	0.00192	mg/L	0.000058	3.03%
QC value within limits for Be 313.107 Recovery = 95.85%								
Ca 315.887†	31009.9	0.4612	mg/L	0.00148	0.4612	mg/L	0.00148	0.32%
QC value within limits for Ca 315.887 Recovery = 92.23%								
Cd 214.440†	363.9	0.0053	mg/L	0.00026	0.0053	mg/L	0.00026	4.85%
QC value within limits for Cd 214.440 Recovery = 105.57%								
Co 228.616†	309.2	0.0100	mg/L	0.00031	0.0100	mg/L	0.00031	3.10%
QC value within limits for Co 228.616 Recovery = 99.53%								
Cr 205.560†	254.5	0.0107	mg/L	0.00034	0.0107	mg/L	0.00034	3.14%
QC value within limits for Cr 205.560 Recovery = 107.30%								
Cu 324.752†	3748.8	0.0229	mg/L	0.00051	0.0229	mg/L	0.00051	2.23%
QC value within limits for Cu 324.752 Recovery = 114.30%								
Fe 238.863†	1913.6	0.1075	mg/L	0.00349	0.1075	mg/L	0.00349	3.25%
QC value within limits for Fe 238.863 Recovery = 107.53%								
Mg 279.077†	728.7	0.1079	mg/L	0.00245	0.1079	mg/L	0.00245	2.27%
QC value within limits for Mg 279.077 Recovery = 107.93%								
Mn 257.610†	6373.4	0.0099	mg/L	0.00019	0.0099	mg/L	0.00019	1.96%
QC value within limits for Mn 257.610 Recovery = 98.72%								
Mo 202.031†	63.8	0.00565	mg/L	0.000107	0.00565	mg/L	0.000107	1.90%
QC value within limits for Mo 202.031 Recovery = 113.00%								
Ni 232.003†	102.1	0.0135	mg/L	0.00243	0.0135	mg/L	0.00243	17.93%
QC value within limits for Ni 232.003 Recovery = 67.74%								
Pb 220.353†	6.6	0.00182	mg/L	0.001632	0.00182	mg/L	0.001632	89.74%
QC value less than the lower limit for Pb 220.353 Recovery = 36.37%								
Sb 206.836†	40.2	0.0198	mg/L	0.00031	0.0198	mg/L	0.00031	1.58%

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   QC value within limits for Sb 206.836  Recovery = 99.04%
Se 196.026†              28.7      0.0265 mg/L       0.01821      0.0265 mg/L       0.01821  68.67%
   QC value within limits for Se 196.026  Recovery = 132.58%
Si 251.611†             101.1      0.1858 mg/L       0.00408      0.1858 mg/L       0.00408   2.20%
   QC value within limits for Si 251.611  Recovery = 92.88%
Sn 189.927†              86.0      0.0189 mg/L       0.00219      0.0189 mg/L       0.00219  11.63%
   QC value within limits for Sn 189.927  Recovery = 94.25%
Tl 190.801†              27.0      0.0187 mg/L       0.00190      0.0187 mg/L       0.00190  10.15%
   QC value within limits for Tl 190.801  Recovery = 93.44%
V 292.402†              993.0      0.0098 mg/L       0.00040      0.0098 mg/L       0.00040   4.09%
   QC value within limits for V 292.402  Recovery = 98.14%
Zn 213.857†            1860.1      0.0304 mg/L       0.00042      0.0304 mg/L       0.00042   1.39%
   QC value within limits for Zn 213.857  Recovery = 101.19%
Ti 334.940†            7410.7      0.0102 mg/L       0.00009      0.0102 mg/L       0.00009   0.87%
   QC value within limits for Ti 334.940  Recovery = 101.65%
B 249.772†              240.7      0.1981 mg/L       0.00438      0.1981 mg/L       0.00438   2.21%
   QC value within limits for B 249.772  Recovery = 99.05%
Na 589.592†            2760.1      0.5526 mg/L       0.01733      0.5526 mg/L       0.01733   3.14%
   QC value within limits for Na 589.592  Recovery = 110.53%
K 766.490†              627.2      0.6192 mg/L       0.04677      0.6192 mg/L       0.04677   7.55%
   QC value within limits for K 766.490  Recovery = 123.85%
Li 670.784†             501.1     0.01435 mg/L      0.002157     0.01435 mg/L      0.002157  15.04%
   QC value within limits for Li 670.784  Recovery = 95.64%
Sr 407.771†            4618.6     0.00964 mg/L      0.000067     0.00964 mg/L      0.000067   0.69%
   QC value within limits for Sr 407.771  Recovery = 96.35%
QC Failed.  Retry.
```

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Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICVLL 14J27641 **Date Collected: 11/4/2014 8:11:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICVLL 14J27641

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: ICVLL 14J27641

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2540376.9	98.47	mg/L	0.322				0.33%
Y 360.073 R	57632.1	9.829	mg/L	0.1175				1.20%
Ag 328.068†	1805.8	0.01054	mg/L	0.001133	0.01054	mg/L	0.001133	10.75%
QC value within limits for Ag 328.068 Recovery = 105.35%								
Al 308.215†	40.0	0.0998	mg/L	0.00711	0.0998	mg/L	0.00711	7.12%
QC value within limits for Al 308.215 Recovery = 99.81%								
As 188.979†	12.3	0.0132	mg/L	0.00120	0.0132	mg/L	0.00120	9.10%
QC value within limits for As 188.979 Recovery = 66.09%								
Ba 233.527†	436.8	0.0052	mg/L	0.00013	0.0052	mg/L	0.00013	2.53%
QC value within limits for Ba 233.527 Recovery = 104.80%								
Be 313.107†	3152.3	0.00185	mg/L	0.000053	0.00185	mg/L	0.000053	2.86%
QC value within limits for Be 313.107 Recovery = 92.30%								
Ca 315.887†	30798.7	0.4580	mg/L	0.00919	0.4580	mg/L	0.00919	2.01%
QC value within limits for Ca 315.887 Recovery = 91.61%								
Cd 214.440†	357.5	0.0052	mg/L	0.00011	0.0052	mg/L	0.00011	2.06%
QC value within limits for Cd 214.440 Recovery = 103.71%								
Co 228.616†	301.4	0.0097	mg/L	0.00034	0.0097	mg/L	0.00034	3.52%
QC value within limits for Co 228.616 Recovery = 97.03%								
Cr 205.560†	249.0	0.0105	mg/L	0.00064	0.0105	mg/L	0.00064	6.11%
QC value within limits for Cr 205.560 Recovery = 104.98%								
Cu 324.752†	3507.2	0.0214	mg/L	0.00084	0.0214	mg/L	0.00084	3.94%
QC value within limits for Cu 324.752 Recovery = 106.94%								
Fe 238.863†	1864.3	0.1048	mg/L	0.00103	0.1048	mg/L	0.00103	0.98%
QC value within limits for Fe 238.863 Recovery = 104.77%								
Mg 279.077†	705.7	0.1045	mg/L	0.00144	0.1045	mg/L	0.00144	1.38%
QC value within limits for Mg 279.077 Recovery = 104.52%								
Mn 257.610†	6278.4	0.0097	mg/L	0.00029	0.0097	mg/L	0.00029	2.94%
QC value within limits for Mn 257.610 Recovery = 97.25%								

Mo 202.031†	58.4	0.00517 mg/L	0.000120	0.00517 mg/L	0.000120	2.33%
QC value within limits for Mo 202.031 Recovery = 103.44%						
Ni 232.003†	97.5	0.0129 mg/L	0.00215	0.0129 mg/L	0.00215	16.59%
QC value within limits for Ni 232.003 Recovery = 64.71%						
Pb 220.353†	11.5	0.00317 mg/L	0.003439	0.00317 mg/L	0.003439	108.32%
QC value within limits for Pb 220.353 Recovery = 63.49%						
Sb 206.836†	36.1	0.0178 mg/L	0.00238	0.0178 mg/L	0.00238	13.37%
QC value within limits for Sb 206.836 Recovery = 88.94%						
Se 196.026†	26.1	0.0241 mg/L	0.01189	0.0241 mg/L	0.01189	49.42%
QC value within limits for Se 196.026 Recovery = 120.33%						
Si 251.611†	97.5	0.1792 mg/L	0.00261	0.1792 mg/L	0.00261	1.45%
QC value within limits for Si 251.611 Recovery = 89.61%						
Sn 189.927†	90.8	0.0199 mg/L	0.00195	0.0199 mg/L	0.00195	9.80%
QC value within limits for Sn 189.927 Recovery = 99.53%						
Tl 190.801†	29.4	0.0204 mg/L	0.00282	0.0204 mg/L	0.00282	13.82%
QC value within limits for Tl 190.801 Recovery = 101.84%						
V 292.402†	1027.4	0.0102 mg/L	0.00015	0.0102 mg/L	0.00015	1.47%
QC value within limits for V 292.402 Recovery = 101.55%						
Zn 213.857†	1811.7	0.0296 mg/L	0.00029	0.0296 mg/L	0.00029	0.98%
QC value within limits for Zn 213.857 Recovery = 98.56%						
Ti 334.940†	7338.5	0.0101 mg/L	0.00035	0.0101 mg/L	0.00035	3.49%
QC value within limits for Ti 334.940 Recovery = 100.66%						
B 249.772†	234.7	0.1931 mg/L	0.00100	0.1931 mg/L	0.00100	0.52%
QC value within limits for B 249.772 Recovery = 96.56%						
Na 589.592†	2714.8	0.5436 mg/L	0.02013	0.5436 mg/L	0.02013	3.70%
QC value within limits for Na 589.592 Recovery = 108.71%						
K 766.490†	584.4	0.5770 mg/L	0.04177	0.5770 mg/L	0.04177	7.24%
QC value within limits for K 766.490 Recovery = 115.39%						
Li 670.784†	531.3	0.01521 mg/L	0.001013	0.01521 mg/L	0.001013	6.66%
QC value within limits for Li 670.784 Recovery = 101.40%						
Sr 407.771†	4632.9	0.00967 mg/L	0.000061	0.00967 mg/L	0.000061	0.63%
QC value within limits for Sr 407.771 Recovery = 96.65%						

All analyte(s) passed QC.

Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 9 **Autosampler Location: 2**
Sample ID: ICB **Date Collected: 11/4/2014 8:16:08 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2586511.4	100.3	mg/L	1.09				1.09%
Y 360.073 R	59439.8	10.14	mg/L	0.095				0.94%
Ag 328.068†	184.4	0.00107	mg/L	0.000227	0.00107	mg/L	0.000227	21.11%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-2.1	-0.0052	mg/L	0.01023	-0.0052	mg/L	0.01023	194.91%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-3.7	-0.0039	mg/L	0.00301	-0.0039	mg/L	0.00301	76.32%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	14.6	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	26.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-46.5	-0.00003	mg/L	0.000043	-0.00003	mg/L	0.000043	158.84%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-1001.1	-0.01489	mg/L	0.003901	-0.01489	mg/L	0.003901	26.21%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-0.7	-0.0000	mg/L	0.00016	-0.0000	mg/L	0.00016	>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-3.8	-0.0001	mg/L	0.00020	-0.0001	mg/L	0.00020	161.81%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	10.2	0.0004	mg/L	0.00011	0.0004	mg/L	0.00011	25.68%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	435.1	0.0027	mg/L	0.00016	0.0027	mg/L	0.00016	5.90%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	11.3	0.0006	mg/L	0.00056	0.0006	mg/L	0.00056	88.33%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	9.8	0.0014	mg/L	0.00098	0.0014	mg/L	0.00098	67.40%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	54.9	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	49.64%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	5.7	0.00050	mg/L	0.000424	0.00050	mg/L	0.000424	84.80%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	-16.4	-0.0022	mg/L	0.00181	-0.0022	mg/L	0.00181	83.51%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-3.5	-0.00097	mg/L	0.003060	-0.00097	mg/L	0.003060	314.45%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.1	-0.0025	mg/L	0.00137	-0.0025	mg/L	0.00137	55.07%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.6	0.0033	mg/L	0.00433	0.0033	mg/L	0.00433	129.24%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	13.6	0.0250	mg/L	0.01081	0.0250	mg/L	0.01081	43.28%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-1.5	-0.0003	mg/L	0.00146	-0.0003	mg/L	0.00146	431.68%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	-0.2	-0.0002	mg/L	0.00192	-0.0002	mg/L	0.00192	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-1.2	-0.0000	mg/L	0.00046	-0.0000	mg/L	0.00046	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	83.8	0.0014	mg/L	0.00028	0.0014	mg/L	0.00028	20.65%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	116.1	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	18.82%
QC value within limits for Ti 334.940 Recovery = Not calculated						
B 249.772†	8.8	0.0073 mg/L	0.00403	0.0073 mg/L	0.00403	55.26%
QC value within limits for B 249.772 Recovery = Not calculated						
Na 589.592†	216.3	0.0433 mg/L	0.01003	0.0433 mg/L	0.01003	23.16%
QC value within limits for Na 589.592 Recovery = Not calculated						
K 766.490†	107.7	0.1063 mg/L	0.05692	0.1063 mg/L	0.05692	53.52%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	41.1	0.00118 mg/L	0.000264	0.00118 mg/L	0.000264	22.42%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 407.771†	29.7	0.00006 mg/L	0.000041	0.00006 mg/L	0.000041	66.26%
QC value within limits for Sr 407.771 Recovery = Not calculated						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 10 **Autosampler Location: 18**
Sample ID: ICSA **Date Collected: 11/4/2014 8:21:08 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2357160.8	91.37	mg/L	1.772				1.94%
Y 360.073 R	55478.3	9.461	mg/L	0.2109				2.23%
Ag 328.068†	-1260.1	-0.00682	mg/L	0.000857	-0.00682	mg/L	0.000857	12.58%
Al 308.215†	202678.7	507.3	mg/L	17.55	507.3	mg/L	17.55	3.46%
As 188.979†	41.5	-0.0124	mg/L	0.01156	-0.0124	mg/L	0.01156	93.11%
Ba 233.527†	292.6	-0.0008	mg/L	0.00018	-0.0008	mg/L	0.00018	22.22%
Be 313.107†	-608.9	-0.00062	mg/L	0.000020	-0.00062	mg/L	0.000020	3.30%
Ca 315.887†	31296834.8	465.4	mg/L	10.32	465.4	mg/L	10.32	2.22%
Cd 214.440†	268.3	-0.0016	mg/L	0.00070	-0.0016	mg/L	0.00070	44.79%
Co 228.616†	-32.3	-0.0005	mg/L	0.00025	-0.0005	mg/L	0.00025	52.38%
Cr 205.560†	156.3	-0.0016	mg/L	0.00074	-0.0016	mg/L	0.00074	45.63%
Cu 324.752†	-1553.2	-0.0132	mg/L	0.00037	-0.0132	mg/L	0.00037	2.83%
Fe 238.863†	3356019.4	188.6	mg/L	0.68	188.6	mg/L	0.68	0.36%
Mg 279.077†	3621263.7	536.6	mg/L	3.11	536.6	mg/L	3.11	0.58%
Mn 257.610†	2601.3	-0.0189	mg/L	0.00011	-0.0189	mg/L	0.00011	0.60%
Mo 202.031†	-36.5	0.00216	mg/L	0.001698	0.00216	mg/L	0.001698	78.72%
Ni 232.003†	-193.9	0.0048	mg/L	0.00252	0.0048	mg/L	0.00252	52.27%
Pb 220.353†	-149.7	-0.00533	mg/L	0.000615	-0.00533	mg/L	0.000615	11.53%
Sb 206.836†	13.2	0.0007	mg/L	0.00435	0.0007	mg/L	0.00435	596.78%
Se 196.026†	-49.8	0.0446	mg/L	0.01385	0.0446	mg/L	0.01385	31.09%
Si 251.611†	29.2	-0.0066	mg/L	0.01223	-0.0066	mg/L	0.01223	186.13%
Sn 189.927†	-53.7	0.0098	mg/L	0.00288	0.0098	mg/L	0.00288	29.29%
Tl 190.801†	8.2	-0.0024	mg/L	0.00064	-0.0024	mg/L	0.00064	26.94%
V 292.402†	1494.3	-0.0016	mg/L	0.00081	-0.0016	mg/L	0.00081	49.73%
Zn 213.857†	696.3	-0.0170	mg/L	0.00083	-0.0170	mg/L	0.00083	4.87%
Ti 334.940†	-3266.4	-0.0211	mg/L	0.00024	-0.0211	mg/L	0.00024	1.13%
B 249.772†	799.4	0.2454	mg/L	0.01578	0.2454	mg/L	0.01578	6.43%
Na 589.592†	492.6	-0.0407	mg/L	0.00285	-0.0407	mg/L	0.00285	7.01%
K 766.490†	214.3	0.1724	mg/L	0.03972	0.1724	mg/L	0.03972	23.05%
Li 670.784†	49.6	-0.00296	mg/L	0.000857	-0.00296	mg/L	0.000857	28.96%
Sr 407.771†	3638.1	0.00028	mg/L	0.000207	0.00028	mg/L	0.000207	74.86%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 7:34:05 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 11 **Autosampler Location: 19**
Sample ID: ICSAB **Date Collected: 11/4/2014 8:27:13 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	195.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2340234.4	90.71	mg/L	0.286				0.32%
Y 360.073 R	54744.1	9.336	mg/L	0.0339				0.36%
Ag 328.068†	174914.0	1.020	mg/L	0.0016	1.020	mg/L	0.0016	0.16%
Al 308.215†	202859.3	507.8	mg/L	2.81	507.8	mg/L	2.81	0.55%
As 188.979†	500.6	0.4823	mg/L	0.00940	0.4823	mg/L	0.00940	1.95%
Ba 233.527†	43184.3	0.5140	mg/L	0.00491	0.5140	mg/L	0.00491	0.95%
Be 313.107†	842706.0	0.4933	mg/L	0.00074	0.4933	mg/L	0.00074	0.15%
Ca 315.887†	31786954.8	472.7	mg/L	6.65	472.7	mg/L	6.65	1.41%
Cd 214.440†	64205.6	0.9269	mg/L	0.00481	0.9269	mg/L	0.00481	0.52%
Co 228.616†	14843.4	0.4784	mg/L	0.00347	0.4784	mg/L	0.00347	0.72%
Cr 205.560†	11910.4	0.4941	mg/L	0.00486	0.4941	mg/L	0.00486	0.98%
Cu 324.752†	78765.8	0.4766	mg/L	0.00053	0.4766	mg/L	0.00053	0.11%
Fe 238.863†	3389199.9	190.4	mg/L	0.17	190.4	mg/L	0.17	0.09%
Mg 279.077†	3648716.4	540.7	mg/L	0.70	540.7	mg/L	0.70	0.13%
Mn 257.610†	308444.2	0.4550	mg/L	0.00048	0.4550	mg/L	0.00048	0.11%
Mo 202.031†	5403.8	0.4835	mg/L	0.00539	0.4835	mg/L	0.00539	1.11%
Ni 232.003†	7581.7	1.036	mg/L	0.0092	1.036	mg/L	0.0092	0.89%
Pb 220.353†	3325.1	0.9509	mg/L	0.01092	0.9509	mg/L	0.01092	1.15%
Sb 206.836†	1024.5	0.4996	mg/L	0.00391	0.4996	mg/L	0.00391	0.78%
Se 196.026†	469.0	0.5228	mg/L	0.01850	0.5228	mg/L	0.01850	3.54%
Si 251.611†	578.4	1.003	mg/L	0.0120	1.003	mg/L	0.0120	1.19%
Sn 189.927†	2069.1	0.4749	mg/L	0.00464	0.4749	mg/L	0.00464	0.98%
Tl 190.801†	684.0	0.4658	mg/L	0.00223	0.4658	mg/L	0.00223	0.48%
V 292.402†	49762.4	0.4757	mg/L	0.00103	0.4757	mg/L	0.00103	0.22%
Zn 213.857†	58594.9	0.9280	mg/L	0.00143	0.9280	mg/L	0.00143	0.15%
Ti 334.940†	352343.9	0.4666	mg/L	0.00097	0.4666	mg/L	0.00097	0.21%
B 249.772†	1989.3	1.222	mg/L	0.0120	1.222	mg/L	0.0120	0.98%
Na 589.592†	511.0	-0.0383	mg/L	0.00314	-0.0383	mg/L	0.00314	8.19%
K 766.490†	194.3	0.1525	mg/L	0.05450	0.1525	mg/L	0.05450	35.73%
Li 670.784†	11.3	-0.00410	mg/L	0.001685	-0.00410	mg/L	0.001685	41.13%
Sr 407.771†	3693.2	0.00028	mg/L	0.000079	0.00028	mg/L	0.000079	28.34%

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Analysis Begun

Start Time: 11/4/2014 9:49:09 AM **Plasma On Time: 11/4/2014 6:06:41 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110414ICP11.sif
Batch ID:
Results Data Set: 110414ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/4/2014 9:49:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 11/4/2014 9:49:23 AM **Plasma On Time: 11/4/2014 6:06:41 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110414ICP11.sif
Batch ID:
Results Data Set: 110414ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 50 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/4/2014 9:49:23 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	198.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2603455.1	100.9	mg/L	1.36				1.35%
Y 360.073 R	56579.5	9.649	mg/L	0.2451				2.54%
Ag 328.068†	164493.7	0.9597	mg/L	0.00124	0.9597	mg/L	0.00124	0.13%
QC value within limits for Ag 328.068 Recovery = 95.97%								
Al 308.215†	3826.0	9.554	mg/L	0.1772	9.554	mg/L	0.1772	1.86%
QC value within limits for Al 308.215 Recovery = 95.54%								
As 188.979†	1767.7	1.904	mg/L	0.0320	1.904	mg/L	0.0320	1.68%
QC value within limits for As 188.979 Recovery = 95.20%								
Ba 233.527†	43216.2	0.5184	mg/L	0.00838	0.5184	mg/L	0.00838	1.62%
QC value within limits for Ba 233.527 Recovery = 103.68%								
Be 313.107†	335206.2	0.1963	mg/L	0.00043	0.1963	mg/L	0.00043	0.22%
QC value within limits for Be 313.107 Recovery = 98.15%								
Ca 315.887†	3310079.6	49.23	mg/L	0.070	49.23	mg/L	0.070	0.14%
QC value within limits for Ca 315.887 Recovery = 98.45%								
Cd 214.440†	33977.1	0.4928	mg/L	0.00146	0.4928	mg/L	0.00146	0.30%
QC value within limits for Cd 214.440 Recovery = 98.56%								
Co 228.616†	31851.3	1.025	mg/L	0.0167	1.025	mg/L	0.0167	1.63%
QC value within limits for Co 228.616 Recovery = 102.52%								
Cr 205.560†	24113.0	1.017	mg/L	0.0172	1.017	mg/L	0.0172	1.69%
QC value within limits for Cr 205.560 Recovery = 101.67%								
Cu 324.752†	314150.9	1.916	mg/L	0.0030	1.916	mg/L	0.0030	0.16%

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   QC value within limits for Cu 324.752  Recovery = 95.78%
Fe 238.863†          173781.7       9.765 mg/L        0.0078       9.765 mg/L        0.0078   0.08%
   QC value within limits for Fe 238.863  Recovery = 97.65%
Mg 279.077†           66094.0       9.788 mg/L        0.0160       9.788 mg/L        0.0160   0.16%
   QC value within limits for Mg 279.077  Recovery = 97.88%
Mn 257.610†          657397.3       1.018 mg/L        0.0012       1.018 mg/L        0.0012   0.12%
   QC value within limits for Mn 257.610  Recovery = 101.84%
Mo 202.031†            5446.9      0.4821 mg/L       0.00737      0.4821 mg/L       0.00737   1.53%
   QC value within limits for Mo 202.031  Recovery = 96.43%
Ni 232.003†           15117.4       2.005 mg/L        0.0326       2.005 mg/L        0.0326   1.62%
   QC value within limits for Ni 232.003  Recovery = 100.24%
Pb 220.353†            1778.1      0.4901 mg/L       0.00962      0.4901 mg/L       0.00962   1.96%
   QC value within limits for Pb 220.353  Recovery = 98.03%
Sb 206.836†            3851.7       1.898 mg/L        0.0338       1.898 mg/L        0.0338   1.78%
   QC value within limits for Sb 206.836  Recovery = 94.88%
Se 196.026†            2055.2       1.896 mg/L        0.0393       1.896 mg/L        0.0393   2.07%
   QC value within limits for Se 196.026  Recovery = 94.80%
Si 251.611†            1063.4       1.953 mg/L        0.0338       1.953 mg/L        0.0338   1.73%
   QC value within limits for Si 251.611  Recovery = 97.67%
Sn 189.927†            8723.9       1.912 mg/L        0.0323       1.912 mg/L        0.0323   1.69%
   QC value within limits for Sn 189.927  Recovery = 95.59%
Tl 190.801†            2811.1       1.949 mg/L        0.0279       1.949 mg/L        0.0279   1.43%
   QC value within limits for Tl 190.801  Recovery = 97.45%
V 292.402†            99227.6      0.9808 mg/L       0.00149      0.9808 mg/L       0.00149   0.15%
   QC value within limits for V 292.402  Recovery = 98.08%
Zn 213.857†          174749.5       2.852 mg/L        0.0018       2.852 mg/L        0.0018   0.06%
   QC value within limits for Zn 213.857  Recovery = 95.07%
Ti 334.940†          721449.7      0.9897 mg/L       0.00013      0.9897 mg/L       0.00013   0.01%
   QC value within limits for Ti 334.940  Recovery = 98.97%
B 249.772†             2250.3       1.833 mg/L        0.0268       1.833 mg/L        0.0268   1.46%
   QC value within limits for B 249.772  Recovery = 91.65%
Na 589.592†          258253.6       51.71 mg/L         0.239       51.71 mg/L         0.239   0.46%
   QC value within limits for Na 589.592  Recovery = 103.42%
K 766.490†            49476.8       48.85 mg/L         0.252       48.85 mg/L         0.252   0.52%
   QC value within limits for K 766.490  Recovery = 97.70%
Li 670.784†           53418.2       1.529 mg/L        0.0108       1.529 mg/L        0.0108   0.70%
   QC value within limits for Li 670.784  Recovery = 101.95%
Sr 407.771†          500277.6       1.044 mg/L        0.0033       1.044 mg/L        0.0033   0.32%
   QC value within limits for Sr 407.771  Recovery = 104.37%
All analyte(s) passed QC.
```

Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

Sequence No.: 51 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/4/2014 9:54:20 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	198.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2653782.0	102.9	mg/L	1.45				1.41%
Y 360.073 R	59526.9	10.15	mg/L	0.206				2.03%
Ag 328.068†	428.4	0.00250	mg/L	0.000882	0.00250	mg/L	0.000882	35.34%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	11.7	0.0292	mg/L	0.01376	0.0292	mg/L	0.01376	47.16%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-1.9	-0.0021	mg/L	0.00595	-0.0021	mg/L	0.00595	285.33%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	30.8	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	10.06%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	14.4	0.00001	mg/L	0.000067	0.00001	mg/L	0.000067	794.26%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-264.5	-0.00393	mg/L	0.006044	-0.00393	mg/L	0.006044	153.96%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-14.3	-0.0002	mg/L	0.00018	-0.0002	mg/L	0.00018	83.86%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	12.1	0.0004	mg/L	0.00036	0.0004	mg/L	0.00036	91.50%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	22.5	0.0009	mg/L	0.00030	0.0009	mg/L	0.00030	31.10%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	943.2	0.0058	mg/L	0.00021	0.0058	mg/L	0.00021	3.60%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	528.4	0.0297	mg/L	0.00319	0.0297	mg/L	0.00319	10.74%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	13.3	0.0020	mg/L	0.00072	0.0020	mg/L	0.00072	36.82%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	4055.0	0.0063	mg/L	0.00025	0.0063	mg/L	0.00025	4.00%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.8	0.00007	mg/L	0.000154	0.00007	mg/L	0.000154	217.22%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	-1.6	-0.0002	mg/L	0.00129	-0.0002	mg/L	0.00129	633.01%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-10.6	-0.00293	mg/L	0.001886	-0.00293	mg/L	0.001886	64.33%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-10.5	-0.0052	mg/L	0.00277	-0.0052	mg/L	0.00277	53.71%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	6.2	0.0058	mg/L	0.00955	0.0058	mg/L	0.00955	165.63%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	7.4	0.0136	mg/L	0.00388	0.0136	mg/L	0.00388	28.64%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-1.0	-0.0002	mg/L	0.00101	-0.0002	mg/L	0.00101	457.21%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	-1.0	-0.0007	mg/L	0.00214	-0.0007	mg/L	0.00214	319.05%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	55.1	0.0005	mg/L	0.00065	0.0005	mg/L	0.00065	120.65%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	175.9	0.0029	mg/L	0.00008	0.0029	mg/L	0.00008	2.68%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	381.2	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007	12.76%
QC value within limits for Ti 334.940 Recovery = Not calculated							
B 249.772†	19.1	0.0157 mg/L	0.00128	0.0157 mg/L	0.00128	8.15%
QC value within limits for B 249.772 Recovery = Not calculated							
Na 589.592†	424.9	0.0851 mg/L	0.00998	0.0851 mg/L	0.00998	11.73%
QC value within limits for Na 589.592 Recovery = Not calculated							
K 766.490†	271.9	0.2685 mg/L	0.01502	0.2685 mg/L	0.01502	5.60%
QC value within limits for K 766.490 Recovery = Not calculated							
Li 670.784†	11.4	0.00033 mg/L	0.001364	0.00033 mg/L	0.001364	417.03%
QC value within limits for Li 670.784 Recovery = Not calculated							
Sr 407.771†	127.5	0.00027 mg/L	0.000058	0.00027 mg/L	0.000058	21.61%
QC value within limits for Sr 407.771 Recovery = Not calculated							

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 52 **Autosampler Location: 191**
Sample ID: L729026-01 WG752044 **Date Collected: 11/4/2014 9:59:20 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-01 WG752044

Analyte	Back Pressure	Flow
All	198.0 kPa	0.55 L/min

Mean Data: L729026-01 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2618178.3	101.5	mg/L	2.05				2.02%
Y 360.073 R	56634.3	9.658	mg/L	0.2478				2.57%
Ag 328.068†	448.8	0.00206	mg/L	0.000833	1.032	mg/kg	0.4164	40.35%
Al 308.215†	1631.3	4.058	mg/L	0.0839	2029	mg/kg	41.96	2.07%
As 188.979†	12.7	0.0089	mg/L	0.00133	4.446	mg/kg	0.6652	14.96%
Ba 233.527†	3654.8	0.0436	mg/L	0.00191	21.82	mg/kg	0.954	4.37%
Be 313.107†	390.0	0.00022	mg/L	0.000035	0.1091	mg/kg	0.01744	15.99%
Ca 315.887†	8821819.4	131.2	mg/L	2.88	65590	mg/kg	1437.97	2.19%
Cd 214.440†	-9.8	-0.0007	mg/L	0.00021	-0.3735	mg/kg	0.10704	28.66%
Co 228.616†	90.2	0.0024	mg/L	0.00015	1.190	mg/kg	0.0738	6.20%
Cr 205.560†	173.5	0.0065	mg/L	0.00043	3.258	mg/kg	0.2147	6.59%
Cu 324.752†	1330.8	0.0069	mg/L	0.00054	3.427	mg/kg	0.2717	7.93%
Fe 238.863†	88400.8	4.966	mg/L	0.0732	2483	mg/kg	36.59	1.47%
Mg 279.077†	28911.9	4.276	mg/L	0.0580	2138	mg/kg	28.99	1.36%
Mn 257.610†	61536.5	0.0950	mg/L	0.00128	47.51	mg/kg	0.641	1.35%
Mo 202.031†	25.8	0.00178	mg/L	0.000905	0.8915	mg/kg	0.45270	50.78%
Ni 232.003†	47.9	0.0085	mg/L	0.00244	4.252	mg/kg	1.2191	28.67%
Pb 220.353†	6.2	0.00448	mg/L	0.002888	2.241	mg/kg	1.4440	64.45%
Sb 206.836†	-7.3	-0.0036	mg/L	0.00560	-1.807	mg/kg	2.7980	154.80%
Se 196.026†	7.9	0.0065	mg/L	0.01511	3.260	mg/kg	7.5543	231.72%
Si 251.611†	335.7	0.6133	mg/L	0.01099	306.6	mg/kg	5.50	1.79%
Sn 189.927†	-18.9	-0.0025	mg/L	0.00072	-1.225	mg/kg	0.3624	29.57%
Tl 190.801†	3.4	0.0003	mg/L	0.00355	0.1518	mg/kg	1.77737	>999.9%
V 292.402†	1648.1	0.0158	mg/L	0.00083	7.893	mg/kg	0.4136	5.24%
Zn 213.857†	191.9	0.0056	mg/L	0.00053	2.794	mg/kg	0.2634	9.43%
Ti 334.940†	16521.7	0.0233	mg/L	0.00043	11.63	mg/kg	0.217	1.87%
B 249.772†	31.5	0.0149	mg/L	0.00018	7.445	mg/kg	0.0915	1.23%
Na 589.592†	2677.1	0.5207	mg/L	0.02151	260.3	mg/kg	10.76	4.13%
K 766.490†	1550.6	1.525	mg/L	0.1140	762.7	mg/kg	57.01	7.47%
Li 670.784†	789.5	0.02240	mg/L	0.001443	11.20	mg/kg	0.721	6.44%
Sr 407.771†	382639.9	0.7968	mg/L	0.00170	398.4	mg/kg	0.85	0.21%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 53 **Autosampler Location: 192**
Sample ID: L729026-02 WG752044 **Date Collected: 11/4/2014 10:04:31 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-02 WG752044

Analyte	Back Pressure	Flow
All	199.0 kPa	0.55 L/min

Mean Data: L729026-02 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2583023.6	100.1	mg/L	1.62				1.62%
Y 360.073 R	58673.8	10.01	mg/L	0.062				0.62%
Ag 328.068†	497.7	0.00166	mg/L	0.000499	0.7987	mg/kg	0.23978	30.02%
Al 308.215†	919.9	2.256	mg/L	0.0550	1084	mg/kg	26.43	2.44%
As 188.979†	14.2	0.0070	mg/L	0.00586	3.386	mg/kg	2.8165	83.18%
Ba 233.527†	2870.4	0.0341	mg/L	0.00192	16.41	mg/kg	0.924	5.63%
Be 313.107†	74.2	0.00002	mg/L	0.000004	0.01139	mg/kg	0.001823	16.01%
Ca 315.887†	16087615.5	239.2	mg/L	8.09	115000	mg/kg	3890.64	3.38%
Cd 214.440†	-8.9	-0.0009	mg/L	0.00019	-0.4135	mg/kg	0.08984	21.73%
Co 228.616†	66.7	0.0012	mg/L	0.00032	0.5660	mg/kg	0.15330	27.09%
Cr 205.560†	141.8	0.0046	mg/L	0.00044	2.227	mg/kg	0.2130	9.57%
Cu 324.752†	982.3	0.0034	mg/L	0.00013	1.645	mg/kg	0.0618	3.76%
Fe 238.863†	52169.3	2.927	mg/L	0.1228	1407	mg/kg	59.03	4.19%
Mg 279.077†	15381.1	2.267	mg/L	0.0958	1090	mg/kg	46.06	4.23%
Mn 257.610†	28259.7	0.0434	mg/L	0.00171	20.88	mg/kg	0.824	3.94%
Mo 202.031†	24.8	0.00102	mg/L	0.000948	0.4895	mg/kg	0.45577	93.11%
Ni 232.003†	32.9	0.0078	mg/L	0.00086	3.745	mg/kg	0.4132	11.03%
Pb 220.353†	-4.8	0.00413	mg/L	0.002957	1.985	mg/kg	1.4218	71.61%
Sb 206.836†	0.7	0.0001	mg/L	0.00255	0.0581	mg/kg	1.22533	>999.9%
Se 196.026†	23.0	0.0169	mg/L	0.00614	8.105	mg/kg	2.9527	36.43%
Si 251.611†	550.9	1.005	mg/L	0.0085	483.3	mg/kg	4.08	0.84%
Sn 189.927†	-17.2	-0.0015	mg/L	0.00197	-0.7075	mg/kg	0.94812	134.02%
Tl 190.801†	8.6	0.0020	mg/L	0.00339	0.9727	mg/kg	1.62758	167.32%
V 292.402†	1164.5	0.0111	mg/L	0.00062	5.316	mg/kg	0.3001	5.65%
Zn 213.857†	-279.0	0.0010	mg/L	0.00032	0.4574	mg/kg	0.15430	33.73%
Ti 334.940†	16689.2	0.0242	mg/L	0.00104	11.63	mg/kg	0.501	4.31%
B 249.772†	17.5	0.0075	mg/L	0.00076	3.612	mg/kg	0.3676	10.18%
Na 589.592†	2266.3	0.4270	mg/L	0.01575	205.3	mg/kg	7.57	3.69%
K 766.490†	790.7	0.7706	mg/L	0.03377	370.5	mg/kg	16.24	4.38%
Li 670.784†	387.2	0.01075	mg/L	0.000803	5.168	mg/kg	0.3858	7.47%
Sr 407.771†	613357.5	1.277	mg/L	0.0380	613.8	mg/kg	18.25	2.97%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 54 **Autosampler Location: 193**
Sample ID: L729026-03 WG752044 **Date Collected: 11/4/2014 10:09:49 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.53 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-03 WG752044

Analyte	Back Pressure	Flow
All	199.0 kPa	0.55 L/min

Mean Data: L729026-03 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2545160.6	98.65	mg/L	0.456				0.46%
Y 360.073 R	56781.9	9.684	mg/L	0.1082				1.12%
Ag 328.068†	455.2	0.00190	mg/L	0.000318	0.8970	mg/kg	0.14986	16.71%
Al 308.215†	1059.8	2.622	mg/L	0.0330	1237	mg/kg	15.58	1.26%
As 188.979†	10.7	0.0060	mg/L	0.01152	2.829	mg/kg	5.4348	192.11%
Ba 233.527†	3158.5	0.0377	mg/L	0.00036	17.77	mg/kg	0.169	0.95%
Be 313.107†	249.6	0.00013	mg/L	0.000018	0.06293	mg/kg	0.008456	13.44%
Ca 315.887†	10514570.4	156.3	mg/L	2.67	73750	mg/kg	1261.52	1.71%
Cd 214.440†	12.5	-0.0004	mg/L	0.00018	-0.1879	mg/kg	0.08564	45.58%
Co 228.616†	59.2	0.0013	mg/L	0.00019	0.6015	mg/kg	0.08928	14.84%
Cr 205.560†	143.7	0.0052	mg/L	0.00028	2.430	mg/kg	0.1329	5.47%
Cu 324.752†	898.5	0.0039	mg/L	0.00072	1.826	mg/kg	0.3379	18.51%
Fe 238.863†	62851.2	3.529	mg/L	0.0284	1665	mg/kg	13.37	0.80%
Mg 279.077†	21839.8	3.228	mg/L	0.0300	1522	mg/kg	14.15	0.93%
Mn 257.610†	46124.5	0.0712	mg/L	0.00051	33.57	mg/kg	0.239	0.71%
Mo 202.031†	27.7	0.00175	mg/L	0.000217	0.8251	mg/kg	0.10256	12.43%
Ni 232.003†	16.3	0.0045	mg/L	0.00230	2.140	mg/kg	1.0831	50.61%
Pb 220.353†	-4.0	0.00233	mg/L	0.003411	1.101	mg/kg	1.6089	146.12%
Sb 206.836†	-4.0	-0.0021	mg/L	0.00169	-0.9896	mg/kg	0.79483	80.32%
Se 196.026†	13.1	0.0100	mg/L	0.00413	4.730	mg/kg	1.9459	41.14%
Si 251.611†	441.2	0.8063	mg/L	0.00629	380.3	mg/kg	2.97	0.78%
Sn 189.927†	-16.7	-0.0019	mg/L	0.00096	-0.9186	mg/kg	0.45433	49.46%
Tl 190.801†	3.6	-0.0000	mg/L	0.00039	-0.0102	mg/kg	0.18203	>999.9%
V 292.402†	1110.1	0.0106	mg/L	0.00023	4.977	mg/kg	0.1095	2.20%
Zn 213.857†	-39.7	0.0027	mg/L	0.00031	1.265	mg/kg	0.1441	11.39%
Ti 334.940†	12343.2	0.0177	mg/L	0.00074	8.354	mg/kg	0.3472	4.16%
B 249.772†	18.8	0.0075	mg/L	0.00311	3.537	mg/kg	1.4648	41.41%
Na 589.592†	2072.7	0.3972	mg/L	0.00139	187.3	mg/kg	0.66	0.35%
K 766.490†	949.8	0.9312	mg/L	0.03139	439.2	mg/kg	14.81	3.37%
Li 670.784†	546.4	0.01541	mg/L	0.002407	7.270	mg/kg	1.1353	15.62%
Sr 407.771†	490951.1	1.023	mg/L	0.0181	482.3	mg/kg	8.55	1.77%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 55 **Autosampler Location: 194**
Sample ID: L729026-05 WG752044 **Date Collected: 11/4/2014 10:15:06 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.52 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-05 WG752044

Analyte	Back Pressure	Flow
All	200.0 kPa	0.55 L/min

Mean Data: L729026-05 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2502378.8	97.00	mg/L	1.980				2.04%
Y 360.073 R	57471.9	9.801	mg/L	0.2078				2.12%
Ag 328.068†	482.7	0.00119	mg/L	0.000727	0.5715	mg/kg	0.34932	61.12%
Al 308.215†	841.9	2.048	mg/L	0.1052	984.5	mg/kg	50.58	5.14%
As 188.979†	8.7	-0.0010	mg/L	0.00339	-0.4780	mg/kg	1.63081	341.19%
Ba 233.527†	4695.4	0.0560	mg/L	0.00259	26.91	mg/kg	1.247	4.63%
Be 313.107†	-54.1	-0.00006	mg/L	0.000032	-0.02930	mg/kg	0.015282	52.16%
Ca 315.887†	20182551.8	300.1	mg/L	11.68	144300	mg/kg	5613.97	3.89%
Cd 214.440†	9.6	-0.0007	mg/L	0.00015	-0.3292	mg/kg	0.07340	22.29%
Co 228.616†	59.3	0.0007	mg/L	0.00016	0.3332	mg/kg	0.07922	23.78%
Cr 205.560†	134.1	0.0040	mg/L	0.00011	1.910	mg/kg	0.0545	2.85%
Cu 324.752†	1321.4	0.0047	mg/L	0.00014	2.269	mg/kg	0.0677	2.98%
Fe 238.863†	41457.5	2.324	mg/L	0.0718	1117	mg/kg	34.52	3.09%
Mg 279.077†	52794.5	7.810	mg/L	0.2439	3755	mg/kg	117.26	3.12%
Mn 257.610†	31278.3	0.0479	mg/L	0.00132	23.01	mg/kg	0.634	2.75%
Mo 202.031†	11.4	-0.00051	mg/L	0.000079	-0.2447	mg/kg	0.03809	15.57%
Ni 232.003†	-5.7	0.0035	mg/L	0.00227	1.689	mg/kg	1.0893	64.48%
Pb 220.353†	-8.5	0.00468	mg/L	0.001473	2.251	mg/kg	0.7081	31.46%
Sb 206.836†	-4.1	-0.0023	mg/L	0.00214	-1.121	mg/kg	1.0307	91.96%
Se 196.026†	20.2	0.0125	mg/L	0.01334	6.020	mg/kg	6.4111	106.50%
Si 251.611†	512.9	0.9326	mg/L	0.04290	448.4	mg/kg	20.62	4.60%
Sn 189.927†	-13.5	-0.0003	mg/L	0.00129	-0.1514	mg/kg	0.61824	408.28%
Tl 190.801†	6.3	-0.0005	mg/L	0.00367	-0.2569	mg/kg	1.76470	686.82%
V 292.402†	1623.2	0.0156	mg/L	0.00070	7.481	mg/kg	0.3355	4.48%
Zn 213.857†	-355.1	0.0013	mg/L	0.00064	0.6176	mg/kg	0.30971	50.15%
Ti 334.940†	16789.6	0.0245	mg/L	0.00081	11.77	mg/kg	0.389	3.31%
B 249.772†	17.0	0.0083	mg/L	0.00209	3.973	mg/kg	1.0054	25.30%
Na 589.592†	4772.3	0.9219	mg/L	0.02820	443.2	mg/kg	13.56	3.06%
K 766.490†	867.8	0.8441	mg/L	0.03265	405.8	mg/kg	15.70	3.87%
Li 670.784†	320.6	0.00873	mg/L	0.000568	4.199	mg/kg	0.2731	6.50%
Sr 407.771†	1755606.0	3.661	mg/L	0.1179	1760	mg/kg	56.66	3.22%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 56 **Autosampler Location: 195**
Sample ID: L729026-06 WG752044 **Date Collected: 11/4/2014 10:20:24 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.55 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729026-06 WG752044

Analyte	Back Pressure	Flow
All	200.0 kPa	0.55 L/min

Mean Data: L729026-06 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2487473.7	96.42	mg/L	1.141				1.18%
Y 360.073 R	53760.7	9.168	mg/L	0.0901				0.98%
Ag 328.068†	499.9	0.00154	mg/L	0.000894	0.6996	mg/kg	0.40658	58.12%
Al 308.215†	1150.9	2.828	mg/L	0.0330	1285	mg/kg	14.98	1.17%
As 188.979†	12.7	0.0043	mg/L	0.00710	1.963	mg/kg	3.2263	164.34%
Ba 233.527†	4815.7	0.0574	mg/L	0.00044	26.11	mg/kg	0.201	0.77%
Be 313.107†	195.3	0.00009	mg/L	0.000032	0.04197	mg/kg	0.014412	34.34%
Ca 315.887†	18100845.5	269.2	mg/L	10.69	122300	mg/kg	4857.61	3.97%
Cd 214.440†	15.7	-0.0006	mg/L	0.00012	-0.2881	mg/kg	0.05542	19.24%
Co 228.616†	59.4	0.0008	mg/L	0.00019	0.3725	mg/kg	0.08454	22.70%
Cr 205.560†	159.4	0.0052	mg/L	0.00044	2.360	mg/kg	0.2004	8.49%
Cu 324.752†	873.2	0.0025	mg/L	0.00020	1.120	mg/kg	0.0896	8.00%
Fe 238.863†	69235.7	3.886	mg/L	0.1263	1766	mg/kg	57.39	3.25%
Mg 279.077†	20250.0	2.986	mg/L	0.0958	1357	mg/kg	43.56	3.21%
Mn 257.610†	45550.4	0.0702	mg/L	0.00214	31.89	mg/kg	0.973	3.05%
Mo 202.031†	23.5	0.00078	mg/L	0.000104	0.3560	mg/kg	0.04719	13.26%
Ni 232.003†	14.5	0.0058	mg/L	0.00158	2.648	mg/kg	0.7174	27.10%
Pb 220.353†	0.0	0.00608	mg/L	0.006487	2.763	mg/kg	2.9486	106.73%
Sb 206.836†	-0.2	-0.0004	mg/L	0.00423	-0.1614	mg/kg	1.92240	>999.9%
Se 196.026†	12.3	0.0067	mg/L	0.00360	3.064	mg/kg	1.6363	53.41%
Si 251.611†	1221.0	2.236	mg/L	0.0315	1016	mg/kg	14.34	1.41%
Sn 189.927†	-23.4	-0.0025	mg/L	0.00183	-1.121	mg/kg	0.8327	74.28%
Tl 190.801†	8.0	0.0012	mg/L	0.00273	0.5335	mg/kg	1.24157	232.72%
V 292.402†	1242.4	0.0117	mg/L	0.00016	5.329	mg/kg	0.0724	1.36%
Zn 213.857†	-142.5	0.0038	mg/L	0.00023	1.715	mg/kg	0.1043	6.08%
Ti 334.940†	24299.0	0.0348	mg/L	0.00111	15.80	mg/kg	0.502	3.18%
B 249.772†	17.1	0.0051	mg/L	0.00032	2.316	mg/kg	0.1465	6.33%
Na 589.592†	4000.2	0.7707	mg/L	0.02316	350.3	mg/kg	10.53	3.00%
K 766.490†	1148.7	1.123	mg/L	0.0152	510.4	mg/kg	6.93	1.36%
Li 670.784†	241.4	0.00653	mg/L	0.001755	2.968	mg/kg	0.7978	26.88%
Sr 407.771†	850725.0	1.772	mg/L	0.0225	805.4	mg/kg	10.21	1.27%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 57 **Autosampler Location: 196**
Sample ID: L729030-01 WG752044 **Date Collected: 11/4/2014 10:25:43 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.55 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729030-01 WG752044

Analyte	Back Pressure	Flow
All	200.0 kPa	0.55 L/min

Mean Data: L729030-01 WG752044

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2584239.8	100.2	mg/L	1.24				1.24%
Y 360.073 R	56728.2	9.674	mg/L	0.1723				1.78%
Ag 328.068†	431.9	0.00159	mg/L	0.000743	0.7233	mg/kg	0.33752	46.67%
Al 308.215†	1142.4	2.822	mg/L	0.0776	1283	mg/kg	35.29	2.75%
As 188.979†	15.2	0.0097	mg/L	0.00112	4.413	mg/kg	0.5100	11.56%
Ba 233.527†	3574.0	0.0426	mg/L	0.00097	19.37	mg/kg	0.440	2.27%
Be 313.107†	230.7	0.00012	mg/L	0.000034	0.05388	mg/kg	0.015642	29.03%
Ca 315.887†	12803232.2	190.4	mg/L	4.31	86540	mg/kg	1959.52	2.26%
Cd 214.440†	-6.2	-0.0008	mg/L	0.00016	-0.3481	mg/kg	0.07491	21.52%
Co 228.616†	58.2	0.0011	mg/L	0.00037	0.5018	mg/kg	0.16619	33.12%
Cr 205.560†	161.4	0.0057	mg/L	0.00016	2.592	mg/kg	0.0728	2.81%
Cu 324.752†	704.2	0.0023	mg/L	0.00005	1.047	mg/kg	0.0244	2.33%
Fe 238.863†	68032.0	3.820	mg/L	0.1657	1736	mg/kg	75.30	4.34%
Mg 279.077†	31870.0	4.713	mg/L	0.2163	2142	mg/kg	98.33	4.59%
Mn 257.610†	29732.3	0.0457	mg/L	0.00167	20.76	mg/kg	0.757	3.65%
Mo 202.031†	20.7	0.00096	mg/L	0.001052	0.4372	mg/kg	0.47827	109.40%
Ni 232.003†	34.1	0.0074	mg/L	0.00167	3.358	mg/kg	0.7603	22.64%
Pb 220.353†	-5.1	0.00283	mg/L	0.004654	1.287	mg/kg	2.1155	164.40%
Sb 206.836†	1.9	0.0008	mg/L	0.00114	0.3762	mg/kg	0.51738	137.52%
Se 196.026†	16.4	0.0123	mg/L	0.00940	5.606	mg/kg	4.2742	76.24%
Si 251.611†	417.0	0.7607	mg/L	0.02979	345.8	mg/kg	13.54	3.92%
Sn 189.927†	-17.9	-0.0019	mg/L	0.00073	-0.8740	mg/kg	0.32962	37.71%
Tl 190.801†	5.0	0.0004	mg/L	0.00103	0.1930	mg/kg	0.46791	242.44%
V 292.402†	1890.9	0.0182	mg/L	0.00036	8.280	mg/kg	0.1615	1.95%
Zn 213.857†	-31.3	0.0036	mg/L	0.00051	1.642	mg/kg	0.2315	14.10%
Ti 334.940†	15383.9	0.0220	mg/L	0.00090	10.01	mg/kg	0.409	4.09%
B 249.772†	18.7	0.0067	mg/L	0.00501	3.046	mg/kg	2.2756	74.72%
Na 589.592†	1121.7	0.2029	mg/L	0.00651	92.22	mg/kg	2.959	3.21%
K 766.490†	1124.7	1.102	mg/L	0.0709	501.1	mg/kg	32.24	6.43%
Li 670.784†	1129.0	0.03204	mg/L	0.004022	14.56	mg/kg	1.828	12.55%
Sr 407.771†	732464.6	1.526	mg/L	0.1065	693.7	mg/kg	48.42	6.98%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 58 **Autosampler Location: 197**
Sample ID: L729030-02 WG752044 **Date Collected: 11/4/2014 10:31:00 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.54 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729030-02 WG752044

Analyte	Back Pressure	Flow
All	201.0 kPa	0.55 L/min

Mean Data: L729030-02 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2510782.0	97.32	mg/L	1.826				1.88%
Y 360.073 R	55993.5	9.549	mg/L	0.1007				1.05%
Ag 328.068†	478.5	0.00151	mg/L	0.001035	0.7002	mg/kg	0.47896	68.40%
Al 308.215†	586.0	1.418	mg/L	0.0680	656.4	mg/kg	31.50	4.80%
As 188.979†	9.2	0.0014	mg/L	0.00491	0.6550	mg/kg	2.27135	346.79%
Ba 233.527†	2638.2	0.0313	mg/L	0.00061	14.51	mg/kg	0.280	1.93%
Be 313.107†	19.5	-0.00001	mg/L	0.000017	-0.00435	mg/kg	0.007878	181.01%
Ca 315.887†	16615965.7	247.1	mg/L	5.54	114400	mg/kg	2563.47	2.24%
Cd 214.440†	23.8	-0.0004	mg/L	0.00016	-0.1888	mg/kg	0.07488	39.67%
Co 228.616†	57.7	0.0008	mg/L	0.00045	0.3931	mg/kg	0.20723	52.71%
Cr 205.560†	138.8	0.0045	mg/L	0.00029	2.067	mg/kg	0.1330	6.44%
Cu 324.752†	874.2	0.0027	mg/L	0.00082	1.237	mg/kg	0.3779	30.56%
Fe 238.863†	49655.5	2.786	mg/L	0.0797	1290	mg/kg	36.90	2.86%
Mg 279.077†	17291.0	2.549	mg/L	0.0783	1180	mg/kg	36.26	3.07%
Mn 257.610†	30528.7	0.0469	mg/L	0.00156	21.73	mg/kg	0.724	3.33%
Mo 202.031†	57.5	0.00387	mg/L	0.000900	1.791	mg/kg	0.4167	23.26%
Ni 232.003†	-1.1	0.0034	mg/L	0.00054	1.562	mg/kg	0.2488	15.93%
Pb 220.353†	-11.8	0.00233	mg/L	0.004165	1.081	mg/kg	1.9283	178.44%
Sb 206.836†	1.3	0.0004	mg/L	0.00246	0.1979	mg/kg	1.13899	575.53%
Se 196.026†	9.5	0.0042	mg/L	0.00838	1.931	mg/kg	3.8781	200.78%
Si 251.611†	566.0	1.033	mg/L	0.0434	478.1	mg/kg	20.10	4.20%
Sn 189.927†	-21.3	-0.0023	mg/L	0.00186	-1.079	mg/kg	0.8600	79.70%
Tl 190.801†	9.1	0.0022	mg/L	0.00305	1.041	mg/kg	1.4129	135.74%
V 292.402†	1746.6	0.0168	mg/L	0.00040	7.786	mg/kg	0.1844	2.37%
Zn 213.857†	-289.8	0.0010	mg/L	0.00027	0.4648	mg/kg	0.12403	26.68%
Ti 334.940†	13728.1	0.0202	mg/L	0.00066	9.331	mg/kg	0.3078	3.30%
B 249.772†	12.2	0.0034	mg/L	0.00100	1.595	mg/kg	0.4643	29.11%
Na 589.592†	3729.1	0.7191	mg/L	0.01930	332.9	mg/kg	8.94	2.68%
K 766.490†	561.9	0.5444	mg/L	0.06274	252.0	mg/kg	29.05	11.53%
Li 670.784†	220.4	0.00596	mg/L	0.001672	2.761	mg/kg	0.7743	28.04%
Sr 407.771†	560650.2	1.167	mg/L	0.0236	540.1	mg/kg	10.93	2.02%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 59 **Autosampler Location: 198**
Sample ID: L729030-04 WG752044 **Date Collected: 11/4/2014 10:36:17 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.51 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729030-04 WG752044

Analyte	Back Pressure	Flow
All	201.0 kPa	0.55 L/min

Mean Data: L729030-04 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2519107.6	97.64	mg/L	1.403				1.44%
Y 360.073 R	53982.7	9.206	mg/L	0.0701				0.76%
Ag 328.068†	485.5	0.00173	mg/L	0.000595	0.8502	mg/kg	0.29186	34.33%
Al 308.215†	1319.5	3.258	mg/L	0.0475	1597	mg/kg	23.30	1.46%
As 188.979†	10.1	0.0029	mg/L	0.00296	1.401	mg/kg	1.4529	103.69%
Ba 233.527†	8383.0	0.1003	mg/L	0.00401	49.17	mg/kg	1.968	4.00%
Be 313.107†	297.5	0.00016	mg/L	0.000011	0.07687	mg/kg	0.005179	6.74%
Ca 315.887†	15295674.3	227.4	mg/L	7.61	111500	mg/kg	3729.64	3.35%
Cd 214.440†	19.6	-0.0005	mg/L	0.00016	-0.2637	mg/kg	0.07730	29.31%
Co 228.616†	82.4	0.0017	mg/L	0.00023	0.8493	mg/kg	0.11372	13.39%
Cr 205.560†	163.9	0.0056	mg/L	0.00053	2.743	mg/kg	0.2590	9.44%
Cu 324.752†	911.4	0.0032	mg/L	0.00034	1.578	mg/kg	0.1657	10.50%
Fe 238.863†	83960.2	4.714	mg/L	0.2026	2311	mg/kg	99.33	4.30%
Mg 279.077†	15755.0	2.322	mg/L	0.0985	1138	mg/kg	48.29	4.24%
Mn 257.610†	73309.6	0.1132	mg/L	0.00508	55.51	mg/kg	2.488	4.48%
Mo 202.031†	34.9	0.00205	mg/L	0.000445	1.007	mg/kg	0.2181	21.65%
Ni 232.003†	45.4	0.0094	mg/L	0.00091	4.614	mg/kg	0.4457	9.66%
Pb 220.353†	-5.8	0.00340	mg/L	0.000200	1.668	mg/kg	0.0982	5.89%
Sb 206.836†	-3.3	-0.0018	mg/L	0.00701	-0.8828	mg/kg	3.43778	389.41%
Se 196.026†	13.7	0.0094	mg/L	0.01544	4.619	mg/kg	7.5700	163.87%
Si 251.611†	1036.3	1.898	mg/L	0.0321	930.4	mg/kg	15.74	1.69%
Sn 189.927†	-18.0	-0.0015	mg/L	0.00126	-0.7325	mg/kg	0.61537	84.01%
Tl 190.801†	4.2	-0.0008	mg/L	0.00300	-0.3829	mg/kg	1.46924	383.74%
V 292.402†	1690.3	0.0161	mg/L	0.00035	7.909	mg/kg	0.1728	2.19%
Zn 213.857†	84.0	0.0063	mg/L	0.00030	3.090	mg/kg	0.1474	4.77%
Ti 334.940†	27533.3	0.0390	mg/L	0.00165	19.11	mg/kg	0.810	4.24%
B 249.772†	21.0	0.0065	mg/L	0.00257	3.209	mg/kg	1.2587	39.23%
Na 589.592†	1953.9	0.3655	mg/L	0.01569	179.1	mg/kg	7.69	4.29%
K 766.490†	1304.9	1.279	mg/L	0.0454	626.8	mg/kg	22.25	3.55%
Li 670.784†	321.8	0.00889	mg/L	0.001076	4.358	mg/kg	0.5277	12.11%
Sr 407.771†	391799.2	0.8144	mg/L	0.00183	399.2	mg/kg	0.89	0.22%

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 60 **Autosampler Location: 199**
Sample ID: L729030-05 WG752044 **Date Collected: 11/4/2014 10:41:28 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.51 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729030-05 WG752044

Analyte	Back Pressure	Flow
All	201.0 kPa	0.55 L/min

Mean Data: L729030-05 WG752044

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2514501.4	97.46	mg/L	1.259				1.29%
Y 360.073 R	53931.8	9.198	mg/L	0.1882				2.05%
Ag 328.068†	477.0	0.00145	mg/L	0.000360	0.7110	mg/kg	0.17637	24.80%
Al 308.215†	1150.3	2.827	mg/L	0.1464	1386	mg/kg	71.79	5.18%
As 188.979†	18.0	0.0101	mg/L	0.00321	4.951	mg/kg	1.5714	31.74%
Ba 233.527†	5512.5	0.0658	mg/L	0.00277	32.25	mg/kg	1.357	4.21%
Be 313.107†	337.4	0.00018	mg/L	0.000045	0.08635	mg/kg	0.021816	25.27%
Ca 315.887†	17924605.5	266.5	mg/L	14.19	130700	mg/kg	6955.88	5.32%
Cd 214.440†	13.1	-0.0007	mg/L	0.00005	-0.3548	mg/kg	0.02311	6.51%
Co 228.616†	66.9	0.0011	mg/L	0.00008	0.5247	mg/kg	0.03789	7.22%
Cr 205.560†	197.7	0.0068	mg/L	0.00029	3.340	mg/kg	0.1406	4.21%
Cu 324.752†	795.5	0.0021	mg/L	0.00047	1.010	mg/kg	0.2315	22.92%
Fe 238.863†	82603.6	4.637	mg/L	0.3067	2273	mg/kg	150.34	6.61%
Mg 279.077†	23397.1	3.453	mg/L	0.2232	1692	mg/kg	109.42	6.47%
Mn 257.610†	53423.4	0.0823	mg/L	0.00528	40.36	mg/kg	2.588	6.41%
Mo 202.031†	25.3	0.00099	mg/L	0.000252	0.4853	mg/kg	0.12347	25.44%
Ni 232.003†	19.1	0.0065	mg/L	0.00040	3.163	mg/kg	0.1951	6.17%
Pb 220.353†	-2.8	0.00514	mg/L	0.002032	2.519	mg/kg	0.9959	39.53%
Sb 206.836†	-7.1	-0.0037	mg/L	0.00491	-1.824	mg/kg	2.4067	131.91%
Se 196.026†	13.1	0.0078	mg/L	0.01223	3.838	mg/kg	5.9942	156.17%
Si 251.611†	556.9	1.016	mg/L	0.0558	497.9	mg/kg	27.35	5.49%
Sn 189.927†	-21.9	-0.0021	mg/L	0.00226	-1.006	mg/kg	1.1062	109.98%
Tl 190.801†	7.1	0.0007	mg/L	0.00053	0.3190	mg/kg	0.25857	81.06%
V 292.402†	1334.9	0.0126	mg/L	0.00094	6.168	mg/kg	0.4612	7.48%
Zn 213.857†	-6.4	0.0058	mg/L	0.00086	2.851	mg/kg	0.4234	14.85%
Ti 334.940†	14637.5	0.0215	mg/L	0.00140	10.53	mg/kg	0.687	6.53%
B 249.772†	21.3	0.0069	mg/L	0.00178	3.377	mg/kg	0.8732	25.86%
Na 589.592†	3718.1	0.7144	mg/L	0.02389	350.2	mg/kg	11.71	3.34%
K 766.490†	946.4	0.9232	mg/L	0.03867	452.6	mg/kg	18.95	4.19%
Li 670.784†	308.6	0.00845	mg/L	0.000764	4.144	mg/kg	0.3747	9.04%
Sr 407.771†	512404.1	1.066	mg/L	0.0592	522.3	mg/kg	29.00	5.55%

==========

Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 62 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/4/2014 10:52:02 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	199.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2701574.3	104.7 mg/L	0.93			0.89%
Y 360.073 R	56971.3	9.716 mg/L	0.0104			0.11%
Ag 328.068†	163022.8	0.9512 mg/L	0.00132	0.9512 mg/L	0.00132	0.14%
QC value within limits for Ag 328.068 Recovery = 95.12%						
Al 308.215†	3812.5	9.520 mg/L	0.1231	9.520 mg/L	0.1231	1.29%
QC value within limits for Al 308.215 Recovery = 95.20%						
As 188.979†	1769.6	1.906 mg/L	0.0261	1.906 mg/L	0.0261	1.37%
QC value within limits for As 188.979 Recovery = 95.31%						
Ba 233.527†	43209.3	0.5183 mg/L	0.00663	0.5183 mg/L	0.00663	1.28%
QC value within limits for Ba 233.527 Recovery = 103.66%						
Be 313.107†	331536.5	0.1942 mg/L	0.00019	0.1942 mg/L	0.00019	0.10%
QC value within limits for Be 313.107 Recovery = 97.08%						
Ca 315.887†	3301105.9	49.09 mg/L	0.102	49.09 mg/L	0.102	0.21%
QC value within limits for Ca 315.887 Recovery = 98.18%						
Cd 214.440†	33863.2	0.4912 mg/L	0.00157	0.4912 mg/L	0.00157	0.32%
QC value within limits for Cd 214.440 Recovery = 98.23%						
Co 228.616†	31875.2	1.026 mg/L	0.0127	1.026 mg/L	0.0127	1.24%
QC value within limits for Co 228.616 Recovery = 102.60%						
Cr 205.560†	24123.7	1.017 mg/L	0.0151	1.017 mg/L	0.0151	1.48%
QC value within limits for Cr 205.560 Recovery = 101.72%						
Cu 324.752†	311039.1	1.897 mg/L	0.0016	1.897 mg/L	0.0016	0.09%
QC value within limits for Cu 324.752 Recovery = 94.83%						
Fe 238.863†	173957.2	9.775 mg/L	0.0106	9.775 mg/L	0.0106	0.11%
QC value within limits for Fe 238.863 Recovery = 97.75%						
Mg 279.077†	65588.7	9.713 mg/L	0.0216	9.713 mg/L	0.0216	0.22%
QC value within limits for Mg 279.077 Recovery = 97.13%						
Mn 257.610†	659720.9	1.022 mg/L	0.0025	1.022 mg/L	0.0025	0.24%
QC value within limits for Mn 257.610 Recovery = 102.20%						
Mo 202.031†	5449.7	0.4824 mg/L	0.00588	0.4824 mg/L	0.00588	1.22%
QC value within limits for Mo 202.031 Recovery = 96.48%						
Ni 232.003†	15142.3	2.008 mg/L	0.0246	2.008 mg/L	0.0246	1.23%
QC value within limits for Ni 232.003 Recovery = 100.41%						
Pb 220.353†	1766.6	0.4870 mg/L	0.00425	0.4870 mg/L	0.00425	0.87%
QC value within limits for Pb 220.353 Recovery = 97.39%						
Sb 206.836†	3847.2	1.895 mg/L	0.0264	1.895 mg/L	0.0264	1.39%
QC value within limits for Sb 206.836 Recovery = 94.77%						
Se 196.026†	2052.7	1.894 mg/L	0.0259	1.894 mg/L	0.0259	1.37%
QC value within limits for Se 196.026 Recovery = 94.68%						
Si 251.611†	1058.3	1.944 mg/L	0.0249	1.944 mg/L	0.0249	1.28%
QC value within limits for Si 251.611 Recovery = 97.21%						
Sn 189.927†	8731.9	1.913 mg/L	0.0236	1.913 mg/L	0.0236	1.23%
QC value within limits for Sn 189.927 Recovery = 95.67%						
Tl 190.801†	2806.3	1.946 mg/L	0.0191	1.946 mg/L	0.0191	0.98%
QC value within limits for Tl 190.801 Recovery = 97.29%						
V 292.402†	98434.9	0.9729 mg/L	0.00054	0.9729 mg/L	0.00054	0.06%
QC value within limits for V 292.402 Recovery = 97.29%						
Zn 213.857†	174042.5	2.841 mg/L	0.0095	2.841 mg/L	0.0095	0.33%
QC value within limits for Zn 213.857 Recovery = 94.69%						

Ti 334.940†	715233.8	0.9811 mg/L	0.00089	0.9811 mg/L	0.00089	0.09%
QC value within limits for Ti 334.940 Recovery = 98.11%						
B 249.772†	2214.7	1.804 mg/L	0.0209	1.804 mg/L	0.0209	1.16%
QC value within limits for B 249.772 Recovery = 90.18%						
Na 589.592†	261616.8	52.38 mg/L	0.227	52.38 mg/L	0.227	0.43%
QC value within limits for Na 589.592 Recovery = 104.76%						
K 766.490†	49870.6	49.24 mg/L	0.333	49.24 mg/L	0.333	0.68%
QC value within limits for K 766.490 Recovery = 98.47%						
Li 670.784†	53570.4	1.534 mg/L	0.0063	1.534 mg/L	0.0063	0.41%
QC value within limits for Li 670.784 Recovery = 102.24%						
Sr 407.771†	499710.2	1.043 mg/L	0.0049	1.043 mg/L	0.0049	0.47%
QC value within limits for Sr 407.771 Recovery = 104.25%						

All analyte(s) passed QC.

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/4/2014 9:13:25 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 63 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/4/2014 10:56:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	199.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2772269.2	107.5	mg/L	0.91				0.84%
Y 360.073 R	59935.7	10.22	mg/L	0.156				1.52%
Ag 328.068†	528.1	0.00308	mg/L	0.000322	0.00308	mg/L	0.000322	10.47%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	16.0	0.0400	mg/L	0.00948	0.0400	mg/L	0.00948	23.69%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-0.8	-0.0008	mg/L	0.00241	-0.0008	mg/L	0.00241	283.44%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	34.9	0.0004	mg/L	0.00010	0.0004	mg/L	0.00010	24.78%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-52.3	-0.00003	mg/L	0.000044	-0.00003	mg/L	0.000044	142.64%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	638.2	0.00950	mg/L	0.001282	0.00950	mg/L	0.001282	13.50%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-27.0	-0.0004	mg/L	0.00003	-0.0004	mg/L	0.00003	8.37%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	13.9	0.0004	mg/L	0.00043	0.0004	mg/L	0.00043	96.45%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	27.1	0.0011	mg/L	0.00065	0.0011	mg/L	0.00065	56.91%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	524.2	0.0032	mg/L	0.00043	0.0032	mg/L	0.00043	13.38%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	784.6	0.0441	mg/L	0.00149	0.0441	mg/L	0.00149	3.38%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	11.3	0.0016	mg/L	0.00164	0.0016	mg/L	0.00164	99.38%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	4944.8	0.0077	mg/L	0.00020	0.0077	mg/L	0.00020	2.61%
QC value greater than the upper limit for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.7	-0.00024	mg/L	0.000304	-0.00024	mg/L	0.000304	126.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	19.6	0.0026	mg/L	0.00160	0.0026	mg/L	0.00160	61.40%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-18.3	-0.00503	mg/L	0.001027	-0.00503	mg/L	0.001027	20.42%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.4	-0.0027	mg/L	0.00190	-0.0027	mg/L	0.00190	71.13%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.1	0.0001	mg/L	0.00382	0.0001	mg/L	0.00382	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	9.3	0.0171	mg/L	0.00371	0.0171	mg/L	0.00371	21.64%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	0.8	0.0002	mg/L	0.00077	0.0002	mg/L	0.00077	420.83%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	2.5	0.0018	mg/L	0.00292	0.0018	mg/L	0.00292	165.79%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	24.2	0.0002	mg/L	0.00063	0.0002	mg/L	0.00063	268.17%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	176.6	0.0029	mg/L	0.00027	0.0029	mg/L	0.00027	9.34%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	392.5	0.0005 mg/L	0.00014	0.0005 mg/L	0.00014	26.11%
QC value within limits for Ti 334.940 Recovery = Not calculated						
B 249.772†	15.8	0.0129 mg/L	0.00148	0.0129 mg/L	0.00148	11.47%
QC value within limits for B 249.772 Recovery = Not calculated						
Na 589.592†	445.6	0.0892 mg/L	0.01942	0.0892 mg/L	0.01942	21.77%
QC value within limits for Na 589.592 Recovery = Not calculated						
K 766.490†	234.3	0.2314 mg/L	0.07879	0.2314 mg/L	0.07879	34.05%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	23.6	0.00068 mg/L	0.001800	0.00068 mg/L	0.001800	265.98%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 407.771†	121.4	0.00025 mg/L	0.000089	0.00025 mg/L	0.000089	35.12%
QC value within limits for Sr 407.771 Recovery = Not calculated						

QC Failed. Retry.

==========

Sequence No.: 64 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/4/2014 11:00:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

User canceled analysis.

==========

Analysis Begun

Start Time: 11/4/2014 11:03:09 AM **Plasma On Time: 11/4/2014 6:06:41 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110414ICP11.sif
Batch ID:
Results Data Set: 110414ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

==========

Sequence No.: 96 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/4/2014 11:03:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: CCVLL 14J27641

Analyte	**Back Pressure**	**Flow**
All	200.0 kPa	0.55 L/min

Mean Data: CCVLL 14J27641

Analyte	**Mean Corrected Intensity**	**Conc.**	**Calib. Units**	**Std.Dev.**	**Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 360.073	2742815.4	106.3	mg/L	0.94				0.88%
Y 360.073 R	58685.1	10.01	mg/L	0.226				2.25%
Ag 328.068†	2150.2	0.01254	mg/L	0.000172	0.01254	mg/L	0.000172	1.37%
QC value within limits for Ag 328.068 Recovery = 125.40%								
Al 308.215†	41.4	0.1034	mg/L	0.01266	0.1034	mg/L	0.01266	12.25%
QC value within limits for Al 308.215 Recovery = 103.43%								
As 188.979†	15.9	0.0172	mg/L	0.00506	0.0172	mg/L	0.00506	29.48%
QC value within limits for As 188.979 Recovery = 85.79%								
Ba 233.527†	451.2	0.0054	mg/L	0.00008	0.0054	mg/L	0.00008	1.52%
QC value within limits for Ba 233.527 Recovery = 108.24%								
Be 313.107†	3109.9	0.00182	mg/L	0.000036	0.00182	mg/L	0.000036	2.00%
QC value within limits for Be 313.107 Recovery = 91.06%								
Ca 315.887†	32087.6	0.4772	mg/L	0.00173	0.4772	mg/L	0.00173	0.36%
QC value within limits for Ca 315.887 Recovery = 95.44%								
Cd 214.440†	313.7	0.0045	mg/L	0.00034	0.0045	mg/L	0.00034	7.57%
QC value within limits for Cd 214.440 Recovery = 90.93%								
Co 228.616†	323.7	0.0104	mg/L	0.00020	0.0104	mg/L	0.00020	1.96%
QC value within limits for Co 228.616 Recovery = 104.19%								
Cr 205.560†	259.0	0.0109	mg/L	0.00018	0.0109	mg/L	0.00018	1.62%
QC value within limits for Cr 205.560 Recovery = 109.22%								

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Cu 324.752†            3186.0      0.0194 mg/L       0.00027      0.0194 mg/L       0.00027   1.37%
   QC value within limits for Cu 324.752  Recovery = 97.15%
Fe 238.863†            2325.0      0.1307 mg/L       0.00045      0.1307 mg/L       0.00045   0.35%
   QC value within limits for Fe 238.863  Recovery = 130.66%
Mg 279.077†             706.3      0.1046 mg/L       0.00212      0.1046 mg/L       0.00212   2.03%
   QC value within limits for Mg 279.077  Recovery = 104.59%
Mn 257.610†            9354.3      0.0145 mg/L       0.00006      0.0145 mg/L       0.00006   0.42%
   QC value within limits for Mn 257.610  Recovery = 144.92%
Mo 202.031†              53.4     0.00473 mg/L      0.000333     0.00473 mg/L      0.000333   7.04%
   QC value within limits for Mo 202.031  Recovery = 94.60%
Ni 232.003†             146.4      0.0194 mg/L       0.00277      0.0194 mg/L       0.00277  14.25%
   QC value within limits for Ni 232.003  Recovery = 97.06%
Pb 220.353†               4.0     0.00111 mg/L      0.000945     0.00111 mg/L      0.000945  85.12%
   QC value less than the lower limit for Pb 220.353  Recovery = 22.21%
Sb 206.836†              33.2      0.0163 mg/L       0.00079      0.0163 mg/L       0.00079   4.83%
   QC value within limits for Sb 206.836  Recovery = 81.72%
Se 196.026†              20.4      0.0188 mg/L       0.00400      0.0188 mg/L       0.00400  21.26%
   QC value within limits for Se 196.026  Recovery = 94.03%
Si 251.611†              99.1      0.1821 mg/L       0.00219      0.1821 mg/L       0.00219   1.20%
   QC value within limits for Si 251.611  Recovery = 91.03%
Sn 189.927†              83.6      0.0183 mg/L       0.00163      0.0183 mg/L       0.00163   8.89%
   QC value within limits for Sn 189.927  Recovery = 91.68%
Tl 190.801†              31.2      0.0216 mg/L       0.00193      0.0216 mg/L       0.00193   8.93%
   QC value within limits for Tl 190.801  Recovery = 108.25%
V 292.402†              959.9      0.0095 mg/L       0.00029      0.0095 mg/L       0.00029   3.09%
   QC value within limits for V 292.402  Recovery = 94.85%
Zn 213.857†            1868.9      0.0305 mg/L       0.00063      0.0305 mg/L       0.00063   2.07%
   QC value within limits for Zn 213.857  Recovery = 101.66%
Ti 334.940†            7536.9      0.0103 mg/L       0.00015      0.0103 mg/L       0.00015   1.45%
   QC value within limits for Ti 334.940  Recovery = 103.38%
B 249.772†              213.7      0.1758 mg/L       0.00407      0.1758 mg/L       0.00407   2.31%
   QC value within limits for B 249.772  Recovery = 87.91%
Na 589.592†            2675.6      0.5357 mg/L       0.00891      0.5357 mg/L       0.00891   1.66%
   QC value within limits for Na 589.592  Recovery = 107.14%
K 766.490†              585.3      0.5778 mg/L       0.05489      0.5778 mg/L       0.05489   9.50%
   QC value within limits for K 766.490  Recovery = 115.57%
Li 670.784†             444.3     0.01272 mg/L      0.000804     0.01272 mg/L      0.000804   6.32%
   QC value within limits for Li 670.784  Recovery = 84.80%
Sr 407.771†            4836.7     0.01009 mg/L      0.000033     0.01009 mg/L      0.000033   0.33%
   QC value within limits for Sr 407.771  Recovery = 100.91%
QC Failed.  Retry.
User canceled analysis.

==========================================================================================
```

Analysis Begun

Start Time: 11/4/2014 11:06:53 AM **Plasma On Time: 11/4/2014 6:06:41 AM**
Logged In Analyst: ICP11 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1402113 **Autosampler: Cetac**

Sample Information File: C:\pe\ICP11\Sample Information\110414ICP11.sif
Batch ID:
Results Data Set: 110414ICP11
Results Library: C:\pe\ICP11\Results\Results.mdb

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Sequence No.: 65 **Autosampler Location: 84**
Sample ID: L729547-08 WG752284 **Date Collected: 11/4/2014 11:06:54 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.5 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time:

Nebulizer Parameters: L729547-08 WG752284

Analyte	**Back Pressure**	**Flow**
All	199.0 kPa	0.55 L/min

Mean Data: L729547-08 WG752284

Analyte	**Mean Corrected Intensity**	**Conc.**	**Calib. Units**	**Std.Dev.**	**Conc.**	**Sample Units**	**Std.Dev.**	**RSD**

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Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/5/2014 12:00:30 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

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Sequence No.: 151 **Autosampler Location: 18**
Sample ID: ICSA **Date Collected: 11/5/2014 1:10:45 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2488122.7	96.44	mg/L	1.167				1.21%
Y 360.073 R	51497.1	8.782	mg/L	0.1703				1.94%
Ag 328.068†	-855.9	-0.00436	mg/L	0.000543	-0.00436	mg/L	0.000543	12.46%
Al 308.215†	190109.8	475.9	mg/L	7.84	475.9	mg/L	7.84	1.65%
As 188.979†	43.8	-0.0079	mg/L	0.00106	-0.0079	mg/L	0.00106	13.48%
Ba 233.527†	312.4	-0.0005	mg/L	0.00005	-0.0005	mg/L	0.00005	8.73%
Be 313.107†	-633.3	-0.00063	mg/L	0.000012	-0.00063	mg/L	0.000012	1.92%
Ca 315.887†	31398803.2	466.9	mg/L	4.85	466.9	mg/L	4.85	1.04%
Cd 214.440†	219.0	-0.0029	mg/L	0.00018	-0.0029	mg/L	0.00018	6.39%
Co 228.616†	-37.0	-0.0008	mg/L	0.00042	-0.0008	mg/L	0.00042	52.26%
Cr 205.560†	154.2	-0.0016	mg/L	0.00054	-0.0016	mg/L	0.00054	34.16%
Cu 324.752†	-1940.9	-0.0153	mg/L	0.00004	-0.0153	mg/L	0.00004	0.23%
Fe 238.863†	3348921.8	188.2	mg/L	1.03	188.2	mg/L	1.03	0.55%
Mg 279.077†	3620905.4	536.6	mg/L	2.92	536.6	mg/L	2.92	0.54%
Mn 257.610†	2653.4	-0.0186	mg/L	0.00021	-0.0186	mg/L	0.00021	1.12%
Mo 202.031†	-47.4	0.00120	mg/L	0.000609	0.00120	mg/L	0.000609	50.52%
Ni 232.003†	-191.1	0.0047	mg/L	0.00192	0.0047	mg/L	0.00192	40.50%
Pb 220.353†	-177.4	-0.01576	mg/L	0.003180	-0.01576	mg/L	0.003180	20.17%
Sb 206.836†	17.6	0.0036	mg/L	0.00299	0.0036	mg/L	0.00299	83.57%
Se 196.026†	-49.6	0.0431	mg/L	0.01453	0.0431	mg/L	0.01453	33.69%
Si 251.611†	19.8	-0.0223	mg/L	0.01064	-0.0223	mg/L	0.01064	47.61%
Sn 189.927†	-47.7	0.0112	mg/L	0.00058	0.0112	mg/L	0.00058	5.20%
Tl 190.801†	12.2	0.0013	mg/L	0.00533	0.0013	mg/L	0.00533	405.22%
V 292.402†	1373.8	-0.0028	mg/L	0.00045	-0.0028	mg/L	0.00045	16.11%
Zn 213.857†	789.6	-0.0148	mg/L	0.00117	-0.0148	mg/L	0.00117	7.89%
Ti 334.940†	-3235.5	-0.0211	mg/L	0.00012	-0.0211	mg/L	0.00012	0.56%
B 249.772†	778.7	0.2296	mg/L	0.00885	0.2296	mg/L	0.00885	3.86%
Na 589.592†	326.7	-0.0715	mg/L	0.00844	-0.0715	mg/L	0.00844	11.81%
K 766.490†	316.3	0.2743	mg/L	0.06396	0.2743	mg/L	0.06396	23.32%
Li 670.784†	67.8	-0.00238	mg/L	0.002460	-0.00238	mg/L	0.002460	103.28%
Sr 407.771†	3871.8	0.00074	mg/L	0.000112	0.00074	mg/L	0.000112	15.00%

==========

Method Loaded
Method Name: IT11K04N **Method Last Saved: 11/5/2014 12:00:30 AM**
IEC File: 091614ICP11_IEC.iec **MSF File:**
Method Description:

==========

Sequence No.: 152 **Autosampler Location: 19**
Sample ID: ICSAB **Date Collected: 11/5/2014 1:16:50 AM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 150 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	203.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2486910.5	96.40	mg/L	0.892				0.93%
Y 360.073 R	51761.2	8.827	mg/L	0.0365				0.41%
Ag 328.068†	173049.5	1.009	mg/L	0.0043	1.009	mg/L	0.0043	0.43%
Al 308.215†	193430.7	484.2	mg/L	4.96	484.2	mg/L	4.96	1.02%
As 188.979†	485.0	0.4674	mg/L	0.01432	0.4674	mg/L	0.01432	3.06%
Ba 233.527†	42419.1	0.5049	mg/L	0.00775	0.5049	mg/L	0.00775	1.53%
Be 313.107†	832579.6	0.4874	mg/L	0.00069	0.4874	mg/L	0.00069	0.14%
Ca 315.887†	31157265.8	463.3	mg/L	0.45	463.3	mg/L	0.45	0.10%
Cd 214.440†	63856.2	0.9215	mg/L	0.00286	0.9215	mg/L	0.00286	0.31%
Co 228.616†	14557.9	0.4691	mg/L	0.00707	0.4691	mg/L	0.00707	1.51%
Cr 205.560†	11674.5	0.4844	mg/L	0.00644	0.4844	mg/L	0.00644	1.33%
Cu 324.752†	77520.5	0.4693	mg/L	0.00119	0.4693	mg/L	0.00119	0.25%
Fe 238.863†	3360901.7	188.9	mg/L	0.56	188.9	mg/L	0.56	0.29%
Mg 279.077†	3631782.3	538.2	mg/L	1.54	538.2	mg/L	1.54	0.29%
Mn 257.610†	305472.5	0.4506	mg/L	0.00128	0.4506	mg/L	0.00128	0.28%
Mo 202.031†	5298.0	0.4741	mg/L	0.00746	0.4741	mg/L	0.00746	1.57%
Ni 232.003†	7451.8	1.018	mg/L	0.0123	1.018	mg/L	0.0123	1.21%
Pb 220.353†	3259.7	0.9307	mg/L	0.01300	0.9307	mg/L	0.01300	1.40%
Sb 206.836†	999.4	0.4877	mg/L	0.01120	0.4877	mg/L	0.01120	2.30%
Se 196.026†	460.0	0.5130	mg/L	0.00916	0.5130	mg/L	0.00916	1.79%
Si 251.611†	542.5	0.9380	mg/L	0.02482	0.9380	mg/L	0.02482	2.65%
Sn 189.927†	2025.7	0.4653	mg/L	0.00740	0.4653	mg/L	0.00740	1.59%
Tl 190.801†	665.7	0.4539	mg/L	0.01078	0.4539	mg/L	0.01078	2.37%
V 292.402†	49228.4	0.4706	mg/L	0.00067	0.4706	mg/L	0.00067	0.14%
Zn 213.857†	57960.4	0.9181	mg/L	0.00464	0.9181	mg/L	0.00464	0.51%
Ti 334.940†	347588.7	0.4601	mg/L	0.00105	0.4601	mg/L	0.00105	0.23%
B 249.772†	1860.6	1.119	mg/L	0.0202	1.119	mg/L	0.0202	1.80%
Na 589.592†	333.8	-0.0706	mg/L	0.01322	-0.0706	mg/L	0.01322	18.74%
K 766.490†	144.0	0.1042	mg/L	0.05182	0.1042	mg/L	0.05182	49.73%
Li 670.784†	30.7	-0.00347	mg/L	0.001790	-0.00347	mg/L	0.001790	51.58%
Sr 407.771†	3866.8	0.00079	mg/L	0.000003	0.00079	mg/L	0.000003	0.41%

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: L729026

Volatile TPH by Method 8015D/GRO
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750198**
Analysis Date:	10/23/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729026-04		

Workgroup: **WG750198**
Description: **TPH Low Fraction by Method 8015D/GRO (GW)**

Sample Name	Collect Date	Analysis Date
L729026-04 1x	10/21/2014	10/24/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750203**
Analysis Date:	10/24/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-01, -02, -03		

Workgroup: **WG750203**
Description: **TPH Low Fraction - GRO by Method 8015D/GRO (SS)**

Sample Name	Collect Date	Analysis Date
L729026-01 1.16x	10/20/2014	10/24/2014
L729026-02 1x	10/20/2014	10/24/2014
L729026-03 1x	10/20/2014	10/24/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750790**
Analysis Date:	10/28/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-06		

Workgroup: **WG750790**
Description: **TPH Low Fraction - GRO by Method 8015D/GRO (SS)**

Sample Name	Collect Date	Analysis Date
L729026-06 1x	10/20/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751264**
Analysis Date:	10/29/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-05		

Workgroup: **WG751264**
Description: **TPH Low Fraction - GRO by Method 8015D/GRO (SS)**

Sample Name	Collect Date	Analysis Date
L729026-05 1x	10/20/2014	10/29/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750198**
Analysis Date:	10/23/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729026-04		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC10	LCS WG750198	LCS WG750198	1023_04.D	10/23/2014	1:46 PM
VOCGC10	LCSD WG750198	LCSD WG750198	1023_05.D	10/23/2014	2:08 PM
VOCGC10	MS WG750198	MS WG750198	1023_06.D	10/23/2014	2:44 PM
VOCGC10	MSD WG750198	MSD WG750198	1023_07.D	10/23/2014	3:08 PM
VOCGC10	Blank WG750198	Blank WG750198	1023_09.D	10/23/2014	3:52 PM
VOCGC10	TU503-TRIPBLANK04-NT01	L729026-04	1023_30.D	10/24/2014	12:00 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750203**
Analysis Date:	10/24/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-01, -02, -03		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC12	LCS WG750203	LCS WG750203	1023_38.D	10/24/2014	1:37 AM
VOCGC12	LCSD WG750203	LCSD WG750203	1023_39.D	10/24/2014	1:58 AM
VOCGC12	MS WG750203	MS WG750203	1023_40.D	10/24/2014	2:28 AM
VOCGC12	MSD WG750203	MSD WG750203	1023_41.D	10/24/2014	2:49 AM
VOCGC12	Blank WG750203	Blank WG750203	1023_43.D	10/24/2014	3:31 AM
VOCGC12	TU503-SB01-DS01	L729026-01	1023_51.D	10/24/2014	6:28 AM
VOCGC12	TU503-SB01-NS01	L729026-02	1023_52.D	10/24/2014	6:49 AM
VOCGC12	TU503-SB01-NS02	L729026-03	1023_53.D	10/24/2014	7:10 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750790**
Analysis Date:	10/28/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC12	LCS WG750790	LCS WG750790	1027_37.D	10/28/2014	8:28 AM
VOCGC12	LCSD WG750790	LCSD WG750790	1027_38.D	10/28/2014	8:50 AM
VOCGC12	MS WG750790	MS WG750790	1027_39.D	10/28/2014	9:35 AM
VOCGC12	MSD WG750790	MSD WG750790	1027_40.D	10/28/2014	9:56 AM
VOCGC12	Blank WG750790	Blank WG750790	1027_42.D	10/28/2014	10:37 AM
VOCGC12	TU503-SB05-NS02	L729026-06	1027_47.D	10/28/2014	12:47 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751264**
Analysis Date:	10/29/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC12	LCS WG751264	LCS WG751264	1029_03.D	10/29/2014	10:26 AM
VOCGC12	LCSD WG751264	LCSD WG751264	1029_04.D	10/29/2014	10:47 AM
VOCGC12	MS WG751264	MS WG751264	1029_05.D	10/29/2014	11:37 AM
VOCGC12	MSD WG751264	MSD WG751264	1029_06.D	10/29/2014	11:58 AM
VOCGC12	Blank WG751264	Blank WG751264	1029_08.D	10/29/2014	12:39 PM
VOCGC12	TU503-SB05-NS01	L729026-05	1029_14.D	10/29/2014	3:06 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750198**
Analysis Date:	10/23/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729026-04		

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	4.7670	86.7	67 - 132	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.8105	87.5	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	4.7670	86.7	4.8105	87.5	67 - 132		0.91	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750203**
Analysis Date:	10/24/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-01, -02, -03		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
TPH (GC/FID) Low Fraction	8006-61-9	< 0.100	< 0.0217	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	5.0400	91.6	63.5 - 137	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.8398	88	63.5 - 137	

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	5.0400	91.6	4.8398	88	63.5 - 137		4.05	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750790**
Analysis Date:	10/28/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
TPH (GC/FID) Low Fraction	8006-61-9	< 0.100	< 0.0217	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	5.8049	106	63.5 - 137	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	5.5646	101	63.5 - 137	

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	5.8049	106	5.5646	101	63.5 - 137		4.23	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751264**
Analysis Date:	10/29/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
TPH (GC/FID) Low Fraction	8006-61-9	< 0.100	< 0.0217	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	5.4803	99.6	63.5 - 137	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	5.5116	100	63.5 - 137	

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	5.4803	99.6	5.5116	100	63.5 - 137		0.57	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750198**
Analysis Date:	10/23/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729026-04		

Matrix Spike / Matrix Spike Duplicate

L728690-05

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	1.2695	6.1393	88.5	5.9893	85.8	50 - 143		2.47	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750203**
Analysis Date:	10/24/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-01, -02, -03		

Matrix Spike / Matrix Spike Duplicate

L728909-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	5	5.5	<0.1085	17.041	62	15.369	55.9	28.5 - 138		10.3	23.6	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750790**
Analysis Date:	10/28/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-06		

Matrix Spike / Matrix Spike Duplicate

L729396-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	5	5.5	<0.1085	9.8888	36	8.6385	31.4	28.5 - 138		13.5	23.6	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751264**
Analysis Date:	10/29/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-05		

Matrix Spike / Matrix Spike Duplicate

L729965-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	5	5.5	<0.1085	28.350	103	25.831	93.9	28.5 - 138		9.3	23.6	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750198**
Analysis Date:	10/23/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729026-04		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec
L729026-04	VOCGC10	1023_30	0.189	94.7		
LCS WG750198	VOCGC10	1023_04	0.203	101	0.223	112
LCSD WG750198	VOCGC10	1023_05	0.204	102	0.223	112
MS WG750198	VOCGC10	1023_06	0.204	102	0.224	112
MSD WG750198	VOCGC10	1023_07	0.203	102	0.223	112
BLANK WG750198	VOCGC10	1023_09	0.190	94.8	0.204	102

--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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750203**
Analysis Date:	10/24/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-01, -02, -03		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec
L729026-01 1.16x	VOCGC12	1023_51	0.197	98.7		
L729026-02	VOCGC12	1023_52	0.197	98.5		
L729026-03	VOCGC12	1023_53	0.200	100		
LCS WG750203	VOCGC12	1023_38	0.195	97.5	0.207	104
LCSD WG750203	VOCGC12	1023_39	0.197	98.6	0.205	103
MS WG750203 5x	VOCGC12	1023_40	0.191	95.5	0.202	101
MSD WG750203 5x	VOCGC12	1023_41	0.194	97.0	0.201	101
BLANK WG750203	VOCGC12	1023_43	0.200	100	0.201	101

--A,A,A-TRIFLUOROTOLUENE(FID) True Value: 0.2 ppm Limits: 59 - 128

--A,A,A-TRIFLUOROTOLUENE(PID) True Value: 0.2 ppm Limits: 54 - 144

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750790**
Analysis Date:	10/28/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-06		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec
L729026-06	VOCGC12	1027_47	0.201	100		
LCS WG750790	VOCGC12	1027_37	0.200	99.9	0.211	105
LCSD WG750790	VOCGC12	1027_38	0.198	99.1	0.231	116
MS WG750790 5x	VOCGC12	1027_39	0.196	98.0	0.202	101
MSD WG750790 5x	VOCGC12	1027_40	0.196	98.2	0.215	107
BLANK WG750790	VOCGC12	1027_42	0.201	100	0.202	101

--A,A,A-TRIFLUOROTOLUENE(FID) True Value: 0.2 ppm Limits: 59 - 128

--A,A,A-TRIFLUOROTOLUENE(PID) True Value: 0.2 ppm Limits: 54 - 144

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751264**
Analysis Date:	10/29/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729026-05		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec
L729026-05	VOCGC12	1029_14	0.198	99.1		
LCS WG751264	VOCGC12	1029_03	0.201	100	0.230	115
LCSD WG751264	VOCGC12	1029_04	0.199	99.5	0.207	104
MS WG751264 5x	VOCGC12	1029_05	0.198	98.9	0.229	114
MSD WG751264 5x	VOCGC12	1029_06	0.199	99.7	0.225	113
BLANK WG751264	VOCGC12	1029_08	0.201	100	0.202	101

--A,A,A-TRIFLUOROTOLUENE(FID) True Value: 0.2 ppm Limits: 59 - 128

--A,A,A-TRIFLUOROTOLUENE(PID) True Value: 0.2 ppm Limits: 54 - 144

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCGC10

Continuing Calibration Verification Standard (CCV)

Filename: 1023_03.D
Date Analyzed: 10/23/2014
Time Analyzed: 12:39 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.49	99.9	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1023_22.D
Date Analyzed: 10/23/2014
Time Analyzed: 8:49 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.36	97.5	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCGC10

Continuing Calibration Verification Standard (CCV)

Filename: 1023_36.D
Date Analyzed: 10/24/2014
Time Analyzed: 2:15 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.28	96	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1023_55.D
Date Analyzed: 10/24/2014
Time Analyzed: 10:17 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.19	94.3	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCGC12

Continuing Calibration Verification Standard (CCV)

Filename: 1023_03.D
Date Analyzed: 10/23/2014
Time Analyzed: 11:42 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.31	96.5	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1023_23.D
Date Analyzed: 10/23/2014
Time Analyzed: 7:34 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.25	95.5	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCGC12

Continuing Calibration Verification Standard (CCV)

Filename: 1023_37.D
Date Analyzed: 10/24/2014
Time Analyzed: 12:50 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.12	93	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1023_56.D
Date Analyzed: 10/24/2014
Time Analyzed: 8:12 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.21	94.7	85 - 115

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCGC12

Continuing Calibration Verification Standard (CCV)

Filename: 1027_03.D
Date Analyzed: 10/27/2014
Time Analyzed: 9:47 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.67	103	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1027_22.D
Date Analyzed: 10/27/2014
Time Analyzed: 9:52 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.54	101	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCGC12

Continuing Calibration Verification Standard (CCV)

Filename: 1027_36.D
Date Analyzed: 10/28/2014
Time Analyzed: 3:33 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.67	103	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1027_55.D
Date Analyzed: 10/28/2014
Time Analyzed: 3:32 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.52	100	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCGC12

Continuing Calibration Verification Standard (CCV)

Filename: 1029_02.D
Date Analyzed: 10/29/2014
Time Analyzed: 9:39 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.52	100	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1029_21.D
Date Analyzed: 10/29/2014
Time Analyzed: 5:41 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.11	93	85 - 115

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC10
Computer Name : VOCCOMPAS

Released By : Ben Baker
Date Released : 10/24/2014 12:04:21 PM

Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1023_01	INSTBLK	BG10I24N						1	1	10/23/14 1155	"water ISURIS14F10114"
2	1023_02	RT	BG10I24N						1	1	10/23/14 1217	"water ISURIS14F10114"
3	1023_03	ICV GRO 5.5G PPM 14J20195	BG10I24N						1	1	10/23/14 1239	"water ISURIS14F10114"
4	1023_04	LCSGRO	BG10I24N	WG750198	GRO	WW			1	1	10/23/14 1346	"water ISURIS14F10114/SPK14J20194"
5	1023_05	LCSDGRO	BG10I24N	WG750198	GRO	WW			1	1	10/23/14 1408	"water ISURIS14F10114/SPK14J20194"
6	1023_06	MSGRO	BG10I24N	WG750198	GRO	WW			1	1	10/23/14 1444	"water ISURIS14F10114/SPK14J20194"
7	1023_07	MSDGRO	BG10I24N	WG750198	GRO	WW			1	1	10/23/14 1508	"water ISURIS14F10114/SPK14J20194"
8	1023_08	INSTBLK	BG10I24N						1	1	10/23/14 1530	"water ISURIS14F10114"
9	1023_09	BLANK	BG10I24N	WG750198	GRO	WW			1	1	10/23/14 1552	"water ISURIS14F10114"
10	1023_10	L728690-05	BG10I24N	WG750198	GROWY	GW	DELTAUT	WY	1	1	10/23/14 1614	"water ISURIS14F10114"
11	1023_11	L728690-04	BG10I24N	WG750198	GROWY	GW	DELTAUT	WY	1	1	10/23/14 1637	"water ISURIS14F10114"
12	1023_12	L728049-01	BG10I24N	WG750198	GRO	WW	GEOSTRBUT	UT	1	1	10/23/14 1707	"water ISURIS14F10114"
13	1023_13	L728471-01	BG10I24N	WG750198	NWTPHGX	GW	OREGONDEQ	OR	1	1	10/23/14 1729	"water ISURIS14F10114"
14	1023_14	L728481-01	BG10I24N	WG750198	GRO	GW	OTIEVCA	AZ	5	5	10/23/14 1751	"water ISURIS14F10114"
15	1023_15	L728493-05	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	1	1	10/23/14 1813	"water ISURIS14F10114"
16	1023_16	L728495-10	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	1	1	10/23/14 1835	"water ISURIS14F10114"
17	1023_17	L728897-01	BG10I24N	WG750198	GRO	GW	OXYGJCO	CO	1	1	10/23/14 1858	"water ISURIS14F10114"
18	1023_18	L728897-02	BG10I24N	WG750198	GRO	GW	OXYGJCO	CO	1	1	10/23/14 1920	"water ISURIS14F10114"
19	1023_19	L728942-01	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	50	50	10/23/14 1943	"water ISURIS14F10114"
20	1023_20	INSTBLK	BG10I24N						1	1	10/23/14 2005	"water ISURIS14F10114"
21	1023_21	RT	BG10I24N						1	1	10/23/14 2027	"water ISURIS14F10114"
22	1023_22	CCV GRO 5.5G PPM 14J20195	BG10I24N						1	1	10/23/14 2049	"water ISURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC10
Computer Name : VOCCOMPAS
Released By : Ben Baker
Date Released : 10/24/2014 12:04:21 PM
Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1023_23	INSTBLK	BG10I24N						1	1	10/23/14 2124	"water ISURIS14F10114"
24	1023_24	L728493-06	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	1	1	10/23/14 2146	"water ISURIS14F10114"
25	1023_25	L728495-11	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	1	1	10/23/14 2208	"water ISURIS14F10114"
26	1023_26	L728942-12	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	1	1	10/23/14 2231	"water ISURIS14F10114"
27	1023_27	L729012-03	BG10I24N	WG750198	GRO	GW	URSTAZ	NM	1	1	10/23/14 2253	"water ISURIS14F10114"
28	1023_28	L729021-03	BG10I24N	WG750198	GRO	GW	URSTAZ	NM	1	1	10/23/14 2316	"water ISURIS14F10114"
29	1023_29	L729024-03	BG10I24N	WG750198	GRO	GW	URSTAZ	NM	1	1	10/23/14 2338	"water ISURIS14F10114"
30	1023_30	L729026-04	BG10I24N	WG750198	GRO	GW	URSTAZ	NM	1	1	10/24/14 0000	"water ISURIS14F10114"
31	1023_31	L728942-02	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	1	1	10/24/14 0023	"water ISURIS14F10114"
32	1023_32	L728942-03	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	1	1	10/24/14 0045	"water ISURIS14F10114"
33	1023_33	L728942-08	BG10I24N	WG750198	GROCA	GW	ERMWCCA	CA	1	1	10/24/14 0107	"water ISURIS14F10114"
34	1023_34	INSTBLK	BG10I24N						1	1	10/24/14 0130	"soil ISURIS14F10114"
35	1023_35	RT	BG10I24N						1	1	10/24/14 0152	"soil ISURIS14F10114"
36	1023_36	ICV GRO 5.5G PPM 14J20195	BG10I24N						1	1	10/24/14 0215	"soil ISURIS14F10114"
37	1023_37	LCSGRO	BG10I24N	WG749615	GRO	SS			1	1	10/24/14 0254	"soil ISURIS14F10114/SPK14J20194"
38	1023_38	LCSDGRO	BG10I24N	WG749615	GRO	SS			1	1	10/24/14 0316	"soil ISURIS14F10114/SPK14J20194"
39	1023_39	MSGRO	BG10I24N	WG749615	GRO	SS			5	5	10/24/14 0409	"soil ISURIS14F10114/SPK14J20194"
40	1023_40	MSDGRO	BG10I24N	WG749615	GRO	SS			5	5	10/24/14 0431	"soil ISURIS14F10114/SPK14J20194"
41	1023_41	INSTBLK	BG10I24N						1	1	10/24/14 0454	"soil ISURIS14F10114"
42	1023_42	BLANK	BG10I24N	WG749615	GRO	SS			1	1	10/24/14 0516	"soil ISURIS14F10114"
43	1023_43	L728471-13	BG10I24N	WG749615	NWTPHGX	SS	OREGONDEQ	OR	5	5	10/24/14 0549	"soil ISURIS14F10114"
44	1023_44	L728493-01	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1.26	1.26	10/24/14 0611	"soil ISURIS14F10114"
45	1023_45	L728493-02	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1	0.93	10/24/14 0633	"soil ISURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC10
Computer Name : VOCCOMPAS
Released By : Ben Baker
Date Released : 10/24/2014 12:04:21 PM
Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
46	1023_46	L728493-03	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1.04	1.04	10/24/14 0655	"soil ISURIS14F10114"
47	1023_47	L728493-04	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1	0.92	10/24/14 0717	"soil ISURIS14F10114"
48	1023_48	L728495-01	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1	0.91	10/24/14 0740	"soil ISURIS14F10114"
49	1023_49	L728495-02	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1.02	1.02	10/24/14 0802	"soil ISURIS14F10114"
50	1023_50	L728495-03	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1	0.89	10/24/14 0825	"soil ISURIS14F10114"
51	1023_51	L728495-04	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1	0.8	10/24/14 0847	"soil ISURIS14F10114"
52	1023_52	L728495-05	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1	0.92	10/24/14 0910	"soil ISURIS14F10114"
53	1023_53	INSTBLK	BG10I24N						1	1	10/24/14 0932	"soil ISURIS14F10114"
54	1023_54	RT	BG10I24N						1	1	10/24/14 0955	"soil ISURIS14F10114"
55	1023_55	CCV GRO 5.5G PPM 14J20195	BG10I24N						1	1	10/24/14 1017	"soil ISURIS14F10114"
56	1023_56	INSTBLK	BG10I24N						1	1	10/24/14 1050	"soil ISURIS14F10114"
57	1023_57	L728495-06	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1	0.78	10/24/14 1112	"soil ISURIS14F10114"
58	1023_58	L728495-07	BG10I24N	WG749615	GROCA	SS	ERMWCCA	CA	1	0.92	10/24/14 1135	"soil ISURIS14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 03.D\FID2B.CH
Acq On : 23 Oct 2014 12:39 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC10
Misc : water ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

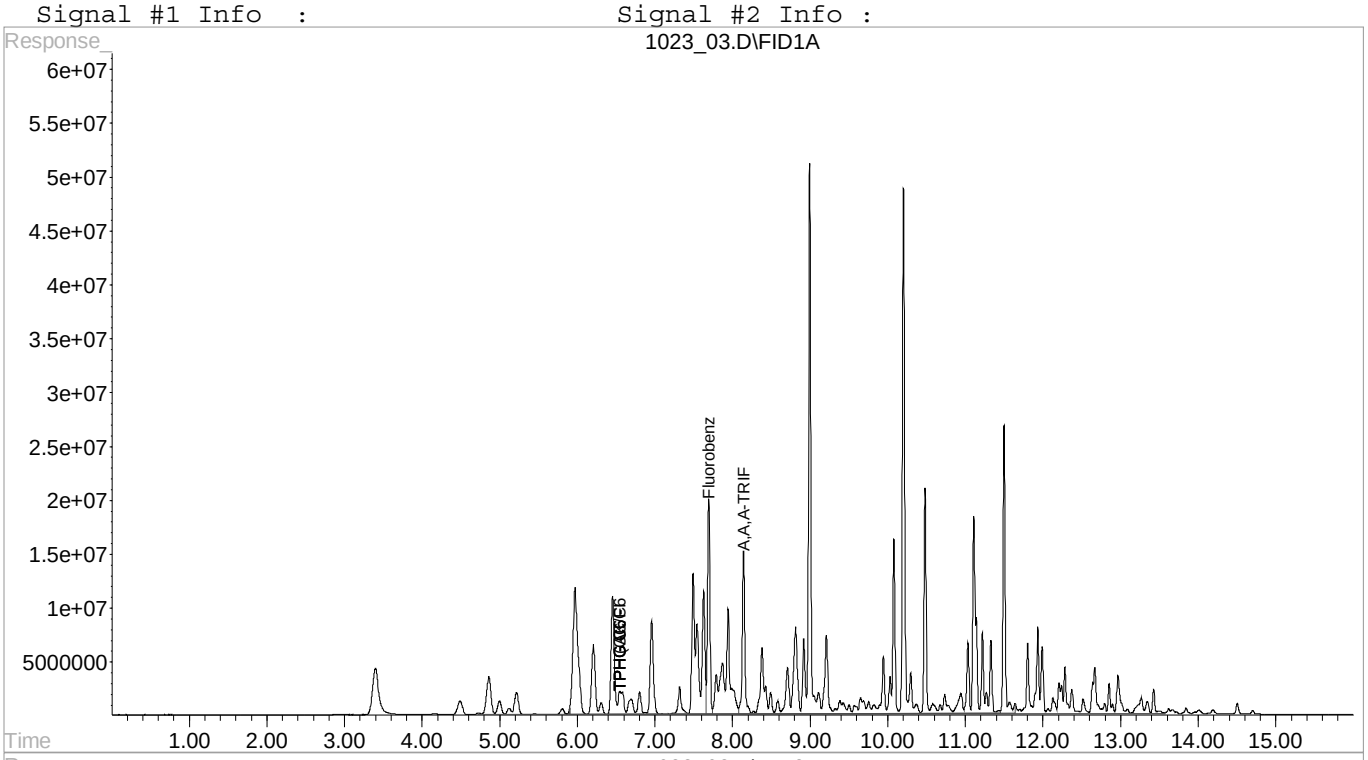
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	418927498	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1384960192	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	361191684	214.9626285 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 107.48%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	866812560	239.0140282 ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 119.51%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10832641668	5.5278331 ppm
3) H,M TPHG C6 - C12	6.53	10545395557	5.5404390 ppm
4) H,M TPHGAK C6 to C10	6.53	8456300010	5.4863241 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	8977375983	5.4926555 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	566387033	167.2378539 ppb
11) T,M benzene	7.54	815824925	62.9488220 ppb
12) T,M toluene	8.99	3384491323	268.7817365 ppb
13) T,M ethylbenzene	10.08	1063582045	95.7549630 ppb
14) T,M m&p-xylene	10.20	3481541460	286.0956699 ppb
15) T,M o-xylene	10.48	1304871885	118.6951741 ppb

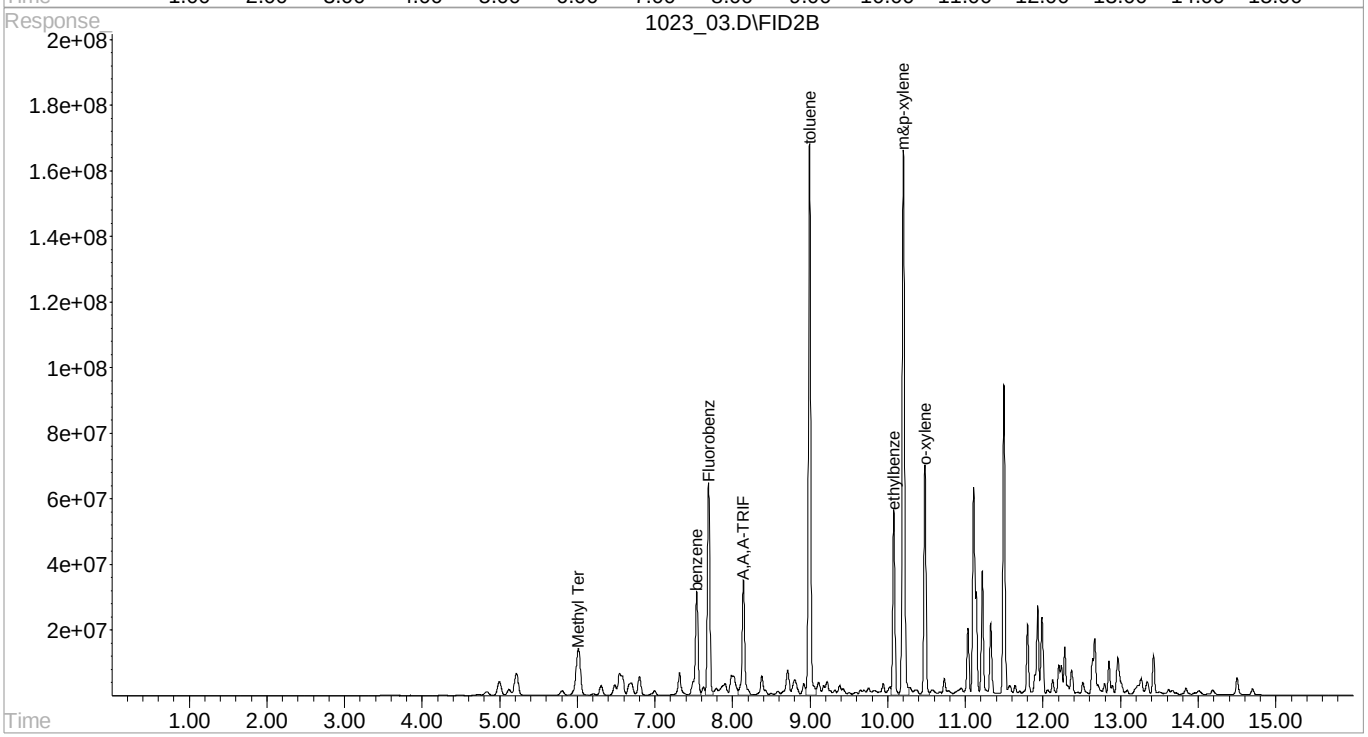
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 03.D\FID2B.CH
Acq On : 23 Oct 2014 12:39 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC10
Misc : water ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 04.D\FID2B.CH
Acq On : 23 Oct 2014 1:46 pm Operator: 621
Sample : LCSGRO 1x WG750198 Inst : VOCGC10
Misc : water ISURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

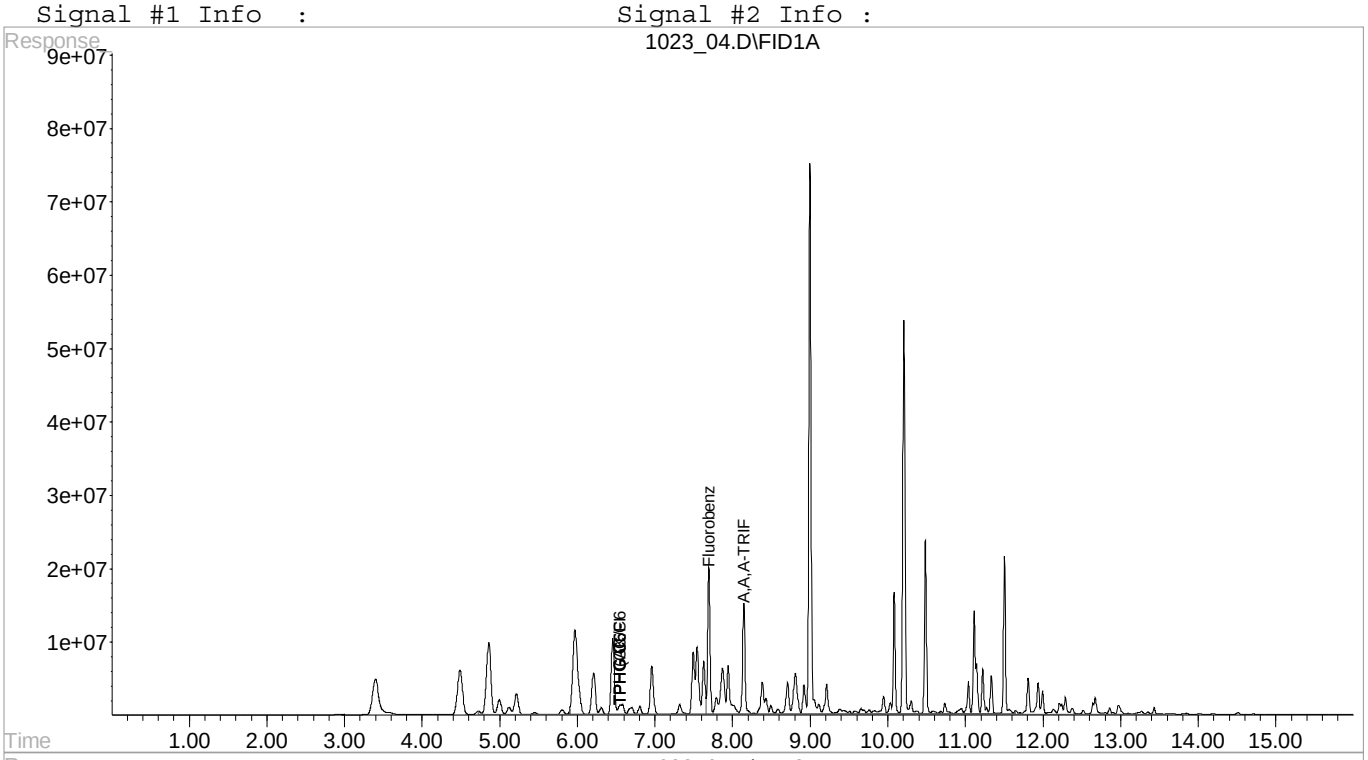
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	424752809	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1431221162	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	345406319	202.7487131 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 101.37%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	836440568	223.1843951 ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 111.59%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	9421307840	4.7243625 ppm
3) H,M TPHG C6 - C12	6.53	8765259037	4.5196612 ppm
4) H,M TPHGAK C6 to C10	6.53	7485359123	4.7739925 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	7927077311	4.7670442 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	502002165	143.4357524 ppb
11) T,M benzene	7.54	892476919	66.6374198 ppb
12) T,M toluene	8.99	4643586264	356.8538691 ppb
13) T,M ethylbenzene	10.08	1097204920	95.5891464 ppb
14) T,M m&p-xylene	10.20	3836154618	305.0467191 ppb
15) T,M o-xylene	10.48	1472729311	129.6339218 ppb

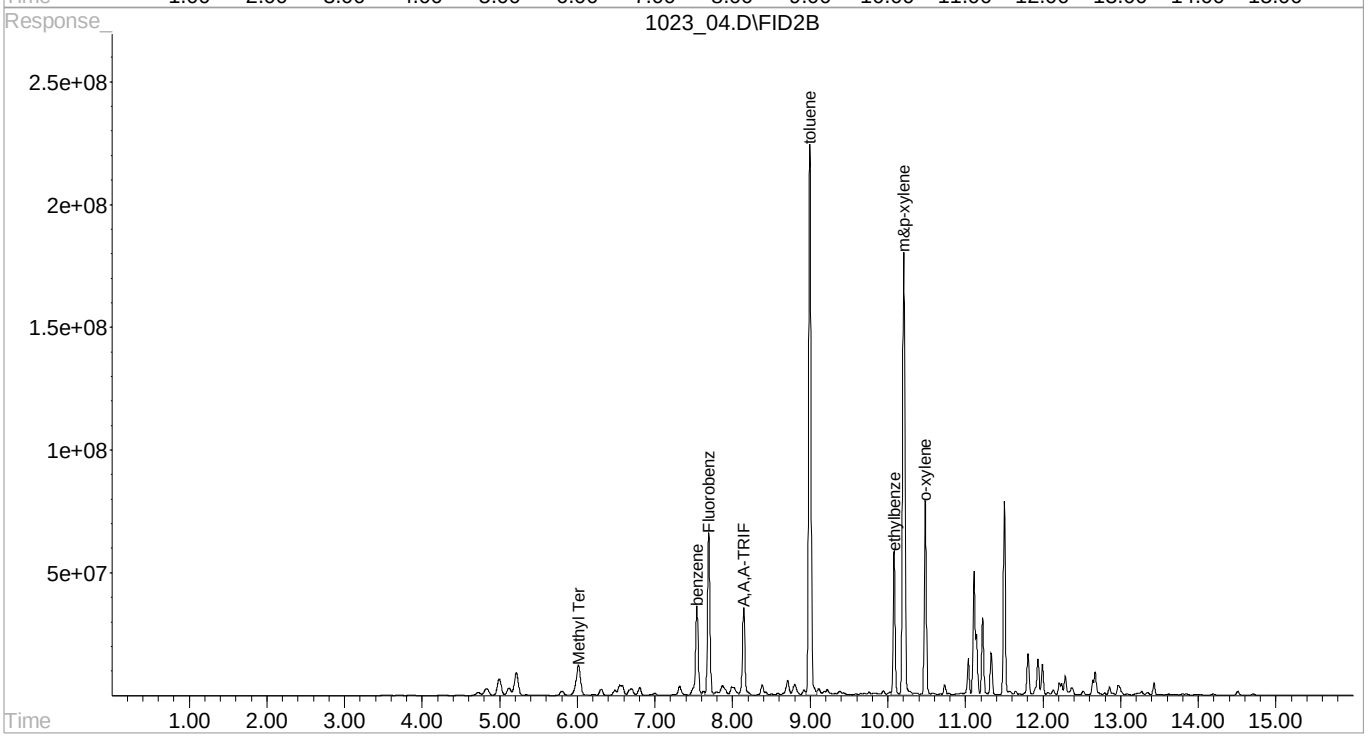
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 04.D\FID2B.CH
Acq On : 23 Oct 2014 1:46 pm Operator: 621
Sample : LCSGRO 1x WG750198 Inst : VOCGC10
Misc : water ISURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 05.D\FID2B.CH
Acq On : 23 Oct 2014 2:08 pm Operator: 621
Sample : LCSDGRO 1x WG750198 Inst : VOCGC10
Misc : water ISURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

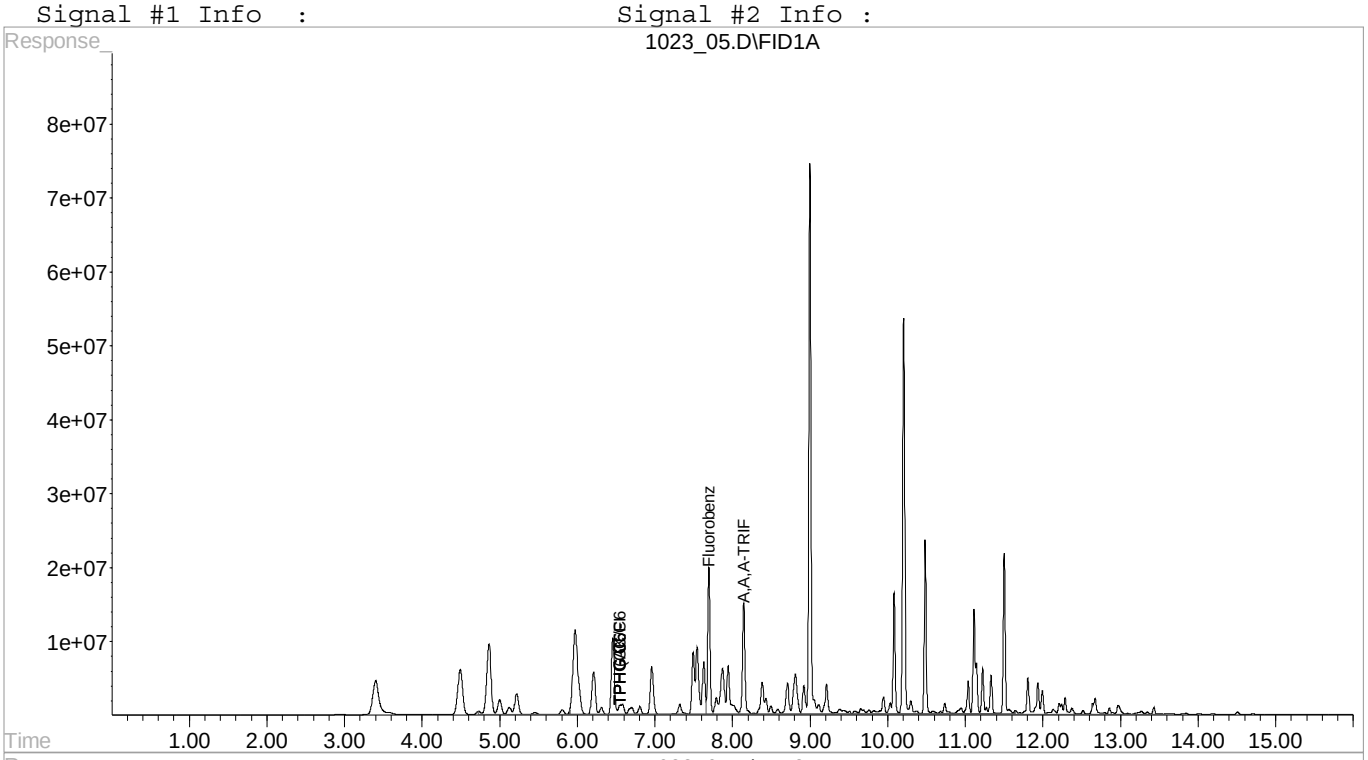
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	417438748	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1394233612	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	340878221	203.5966293 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 101.80%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	815044594	223.2447782 ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 111.62%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	9310885235	4.7514794 ppm
3) H,M TPHG C6 - C12	6.53	8680663063	4.5554220 ppm
4) H,M TPHGAK C6 to C10	6.53	7409893699	4.8095692 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	7859794506	4.8105333 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	503045838	147.5470688 ppb
11) T,M benzene	7.54	868291966	66.5515482 ppb
12) T,M toluene	8.99	4545843250	358.6101265 ppb
13) T,M ethylbenzene	10.08	1078200411	96.4254182 ppb
14) T,M m&p-xylene	10.20	3781102373	308.6454590 ppb
15) T,M o-xylene	10.48	1452842467	131.2760365 ppb

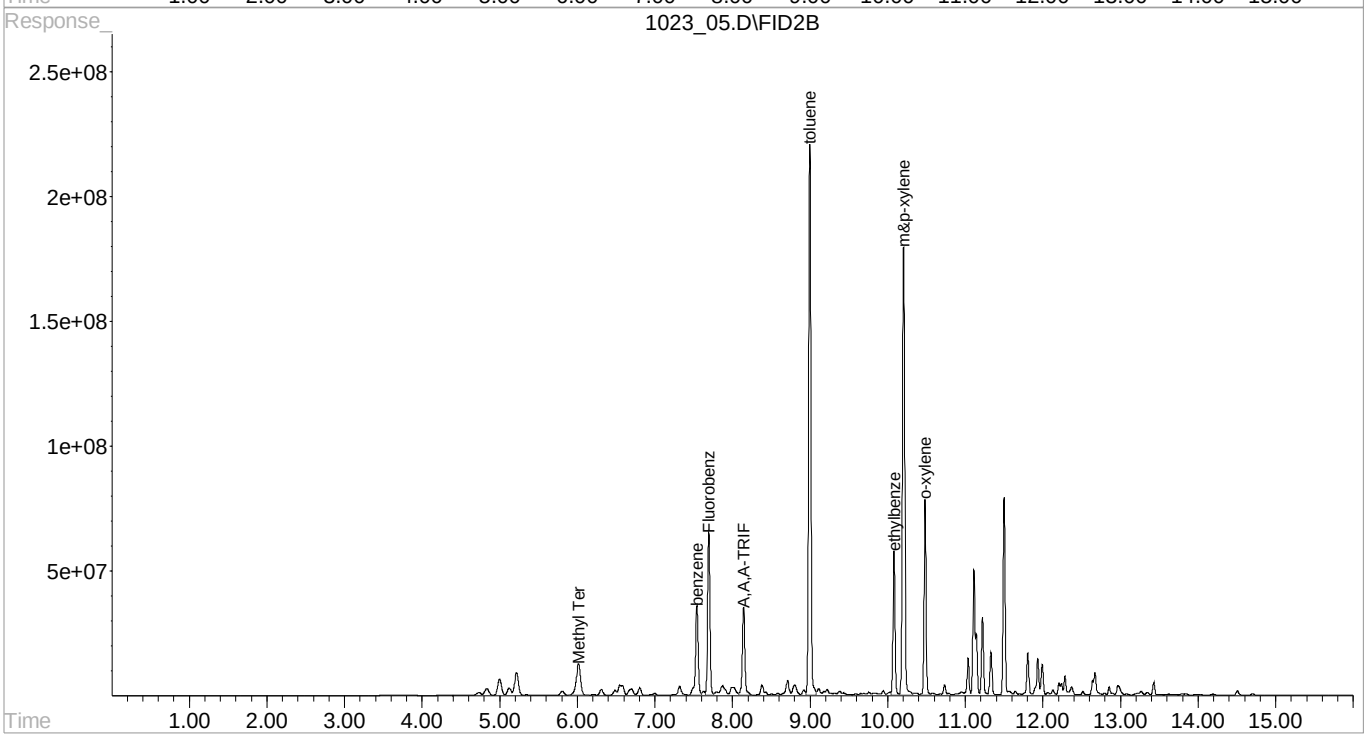
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 05.D\FID2B.CH
Acq On : 23 Oct 2014 2:08 pm Operator: 621
Sample : LCSDGRO 1x WG750198 Inst : VOCGC10
Misc : water ISURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 06.D\FID2B.CH
Acq On : 23 Oct 2014 2:44 pm Operator: 621
Sample : MSGRO 1x WG750198 L728690-05 Inst : VOCGC10
Misc : water ISURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

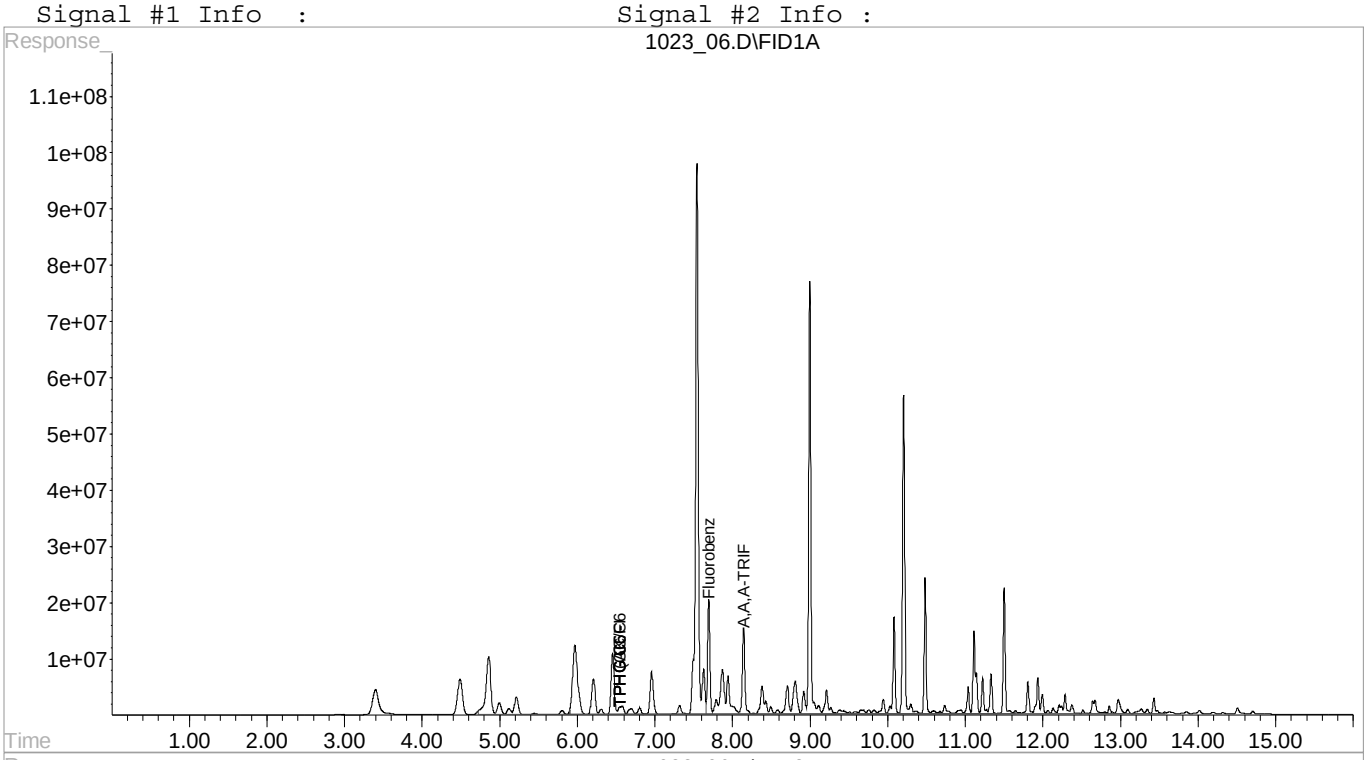
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	433366659	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1451456952	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	354239804	203.8008316 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 101.90%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	851794854	224.1126334 ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 112.06%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	12182824005	6.0203163 ppm
3) H,M TPHG C6 - C12	6.53	11490391267	5.8424007 ppm
4) H,M TPHGAK C6 to C10	6.53	9928047463	6.2433486 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	10355279575	6.1392989 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	502367999	141.5390844 ppb
11) T,M benzene	7.54	7073168049	520.7601518 ppb
12) T,M toluene	8.99	3957571580	299.8943335 ppb
13) T,M ethylbenzene	10.08	1131960735	97.2422029 ppb
14) T,M m&p-xylene	10.20	4000736153	313.6987260 ppb
15) T,M o-xylene	10.48	1514716711	131.4709300 ppb

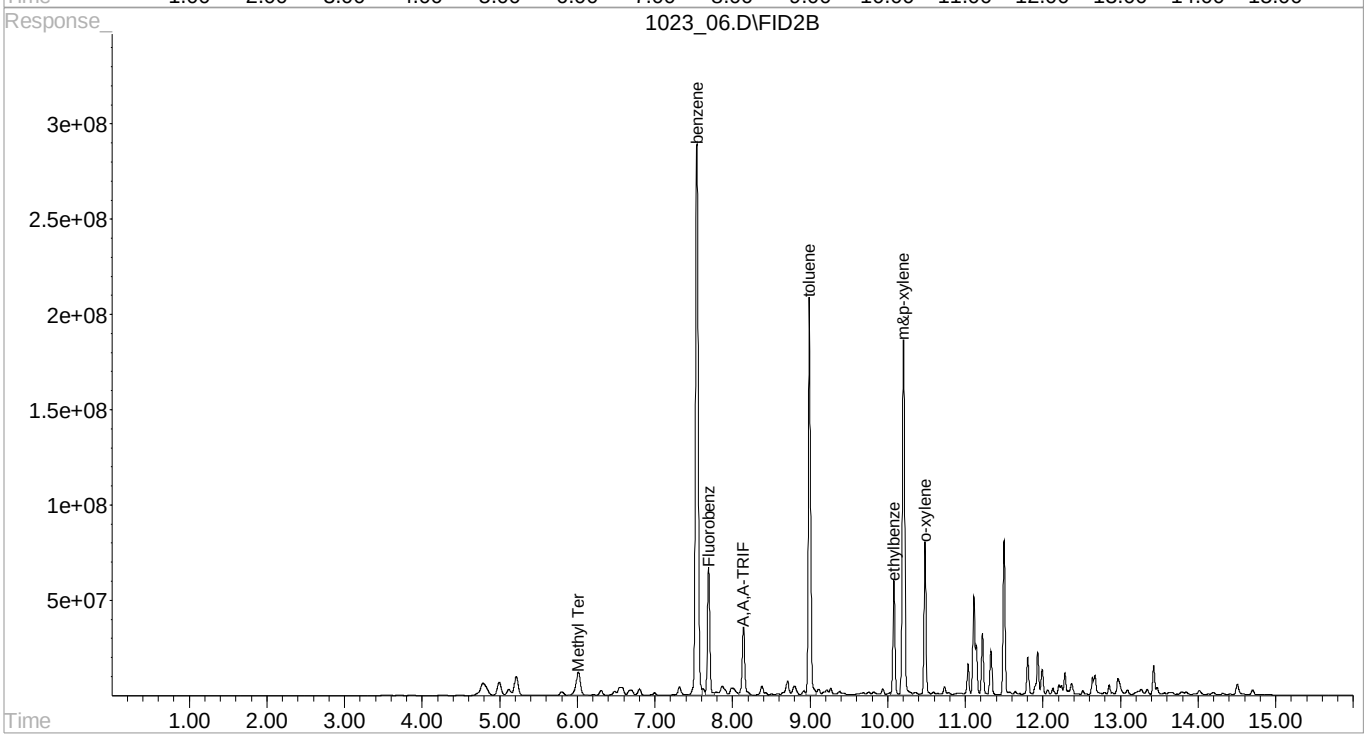
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 06.D\FID2B.CH
Acq On : 23 Oct 2014 2:44 pm Operator: 621
Sample : MSGRO 1x WG750198 L728690-05 Inst : VOCGC10
Misc : water ISURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 07.D\FID1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 07.D\FID2B.CH
Acq On : 23 Oct 2014 3:08 pm Operator: 621
Sample : MSDGRO 1x WG750198 L728690-05 Inst : VOCGC10
Misc : water ISURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

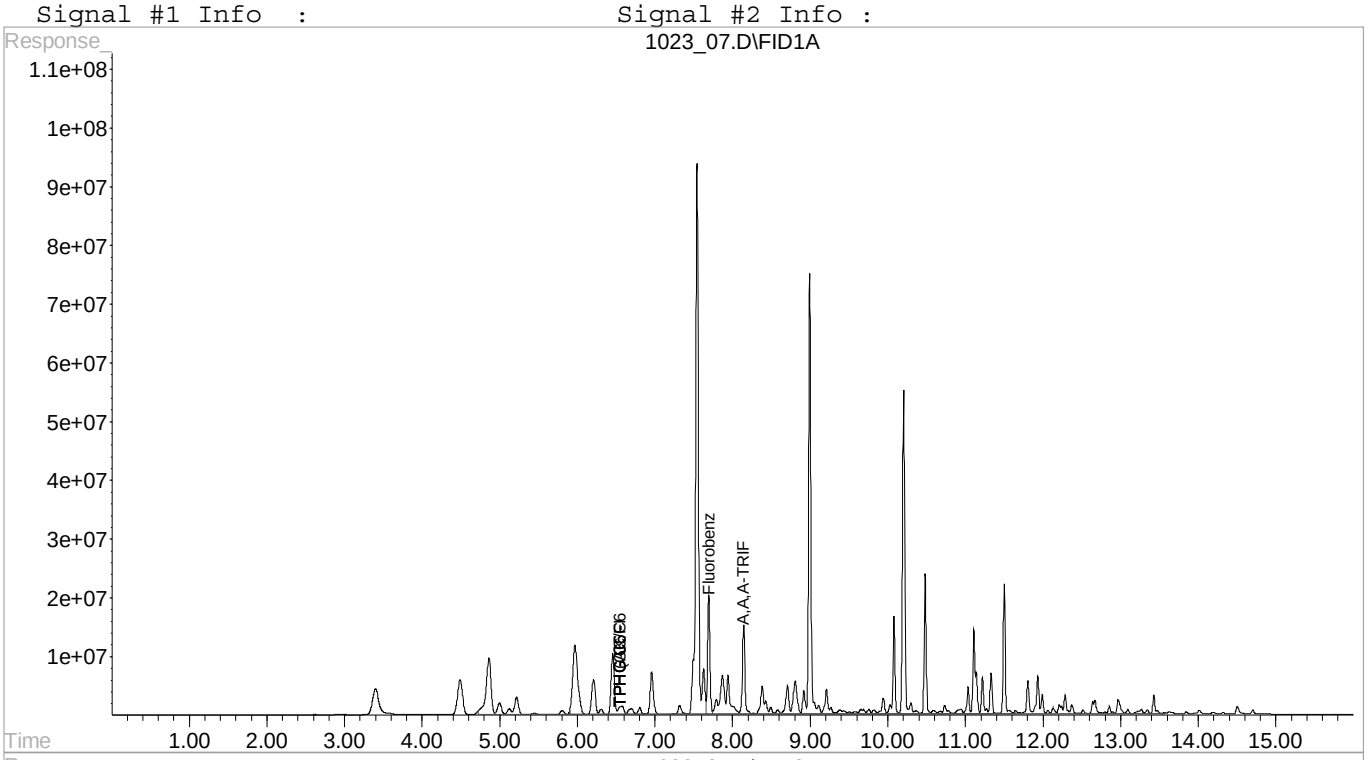
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	430036073	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1432148228	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	350587196	203.2615590 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 101.63%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	836368106	223.0205999 ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 111.51%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	11821470719	5.8842918 ppm
3) H,M TPHG C6 - C12	6.53	11153258479	5.7121963 ppm
4) H,M TPHGAK C6 to C10	6.53	9576744828	6.0655986 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	10029784241	5.9893211 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	496104235	141.6587935 ppb
11) T,M benzene	7.54	6805491975	507.8079369 ppb
12) T,M toluene	8.99	3768116182	289.3876252 ppb
13) T,M ethylbenzene	10.08	1124124484	97.8709994 ppb
14) T,M m&p-xylene	10.20	3899332738	309.8698558 ppb
15) T,M o-xylene	10.48	1481636049	130.3334959 ppb

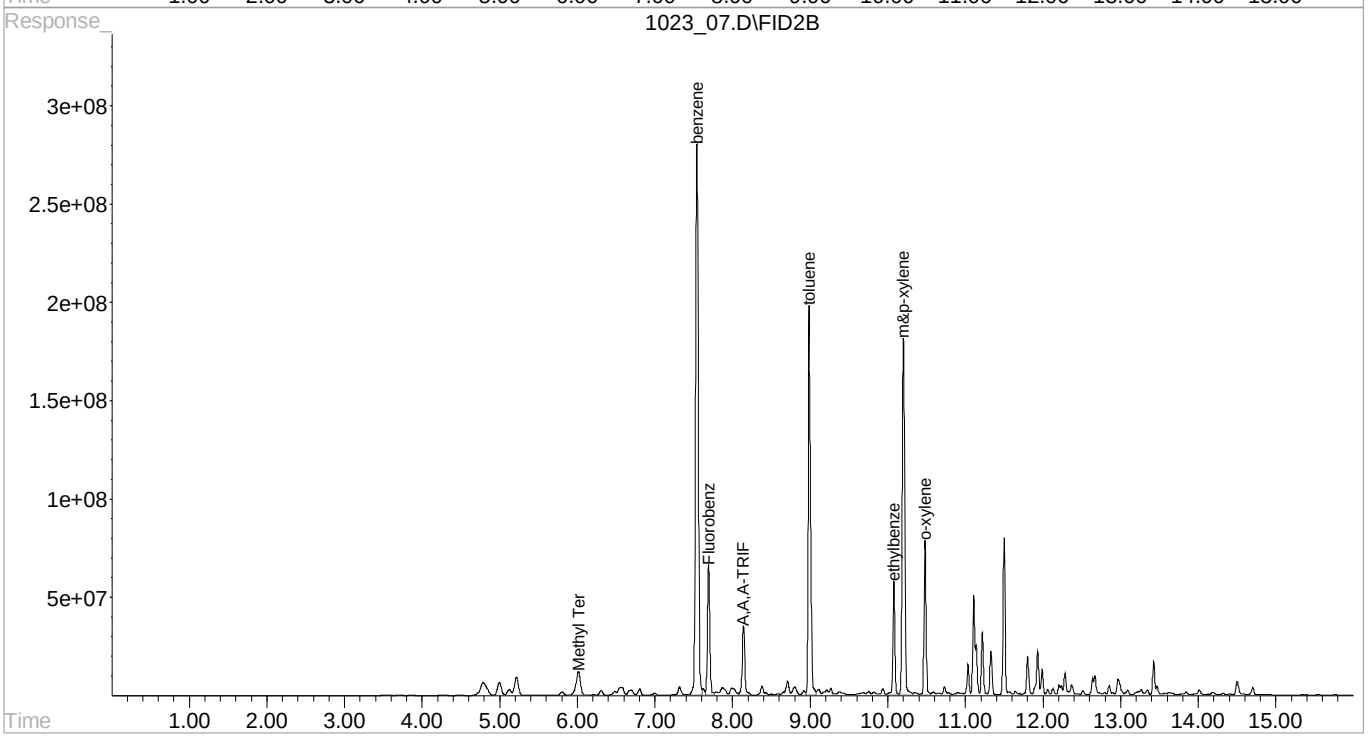
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 07.D\FID1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 07.D\FID2B.CH
Acq On : 23 Oct 2014 3:08 pm Operator: 621
Sample : MSDGRO 1x WG750198 L728690-05 Inst : VOCGC10
Misc : water ISURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 09.D\FID2B.CH
Acq On : 23 Oct 2014 3:52 pm Operator: 621
Sample : BLANK 1x WG750198 Inst : VOCGC10
Misc : water ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

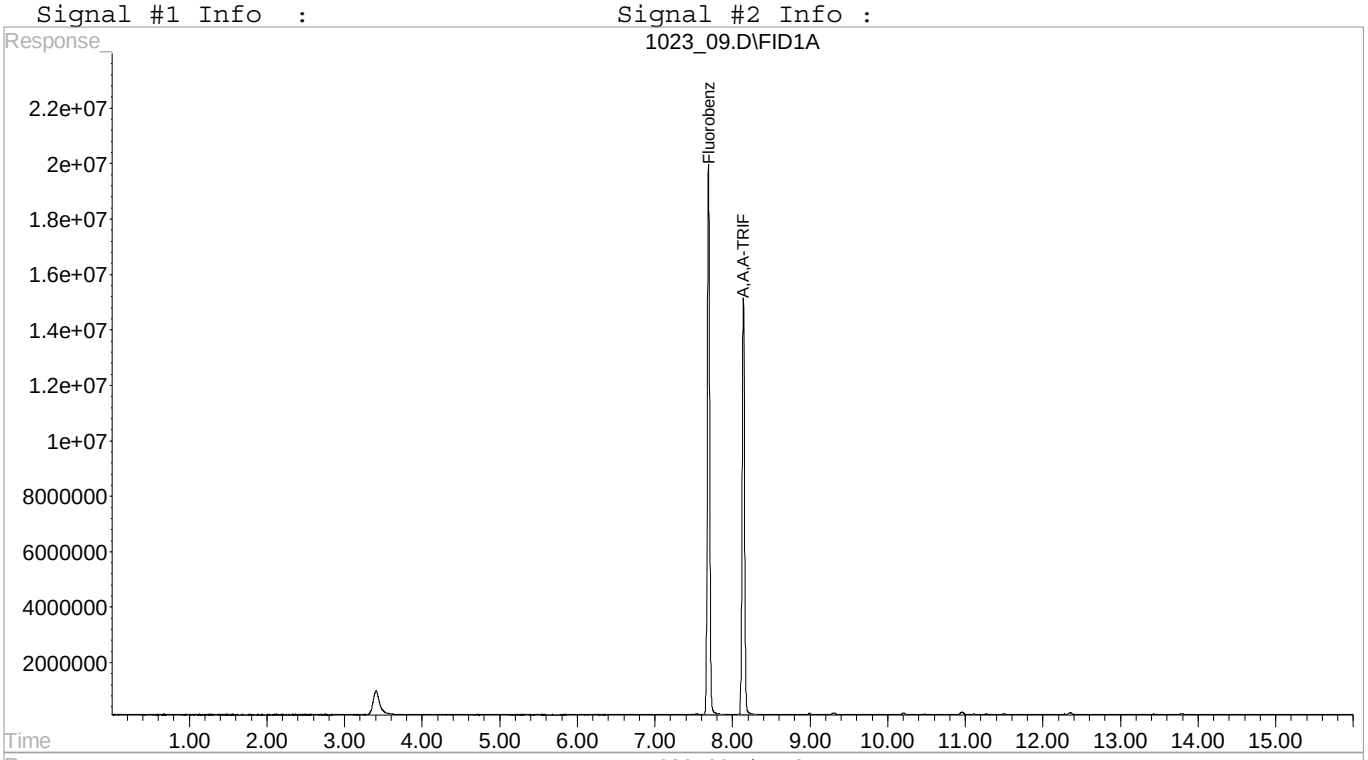
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	415877411	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1383110628	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	316266072	189.6056878	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 94.80%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	739716691	204.2414976	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 102.12%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	37492704	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	37151600	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	21242156	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	22578796	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.54	2156334	0.1666046	ppb
12) T,M toluene	8.99	3370704	0.2680448	ppb
13) T,M ethylbenzene	10.08	1056097	0.0952082	ppb
14) T,M m&p-xylene	10.20	4889281	0.4023139	ppb
15) T,M o-xylene	10.48	1662097	0.1513916	ppb

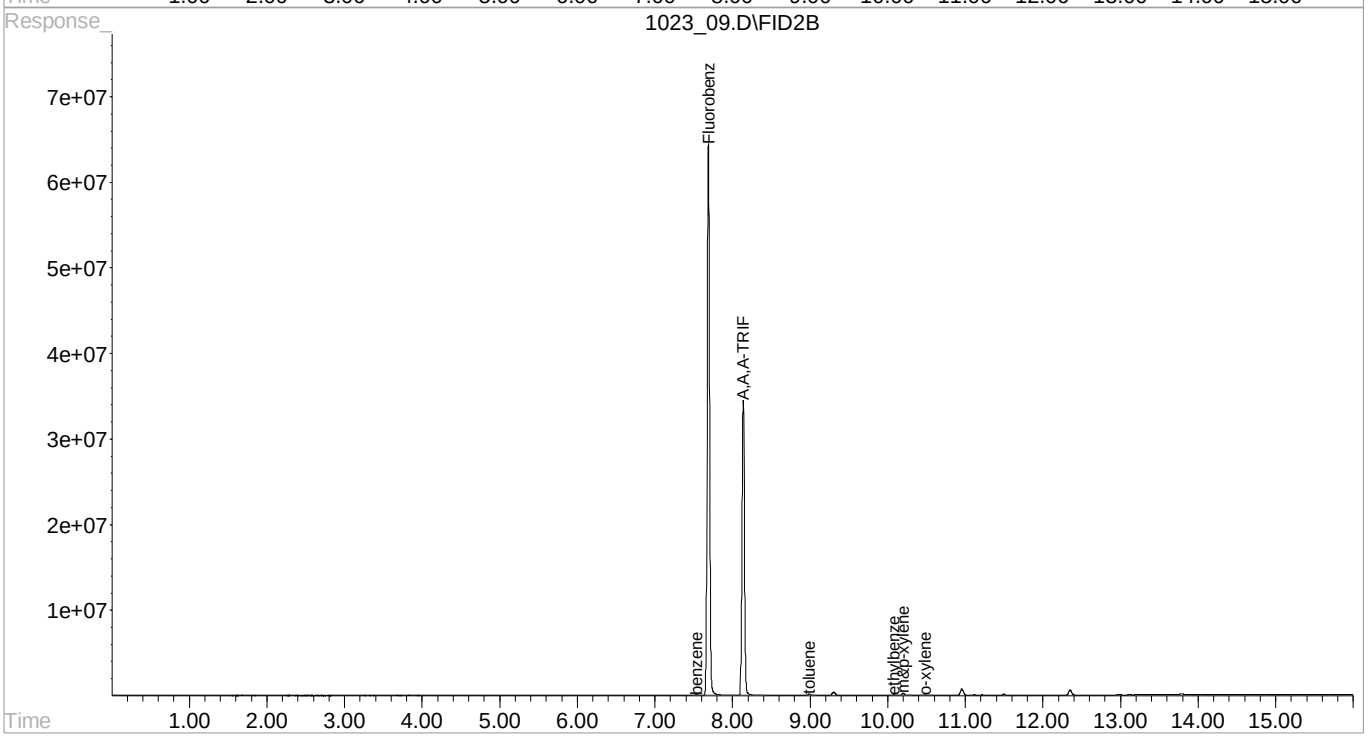
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 09.D\FID2B.CH
Acq On : 23 Oct 2014 3:52 pm Operator: 621
Sample : BLANK 1x WG750198 Inst : VOCGC10
Misc : water ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:34 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 22.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 22.D\FID2B.CH
Acq On : 23 Oct 2014 8:49 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J20195 Inst : VOCGC10
Misc : water ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 11:50 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

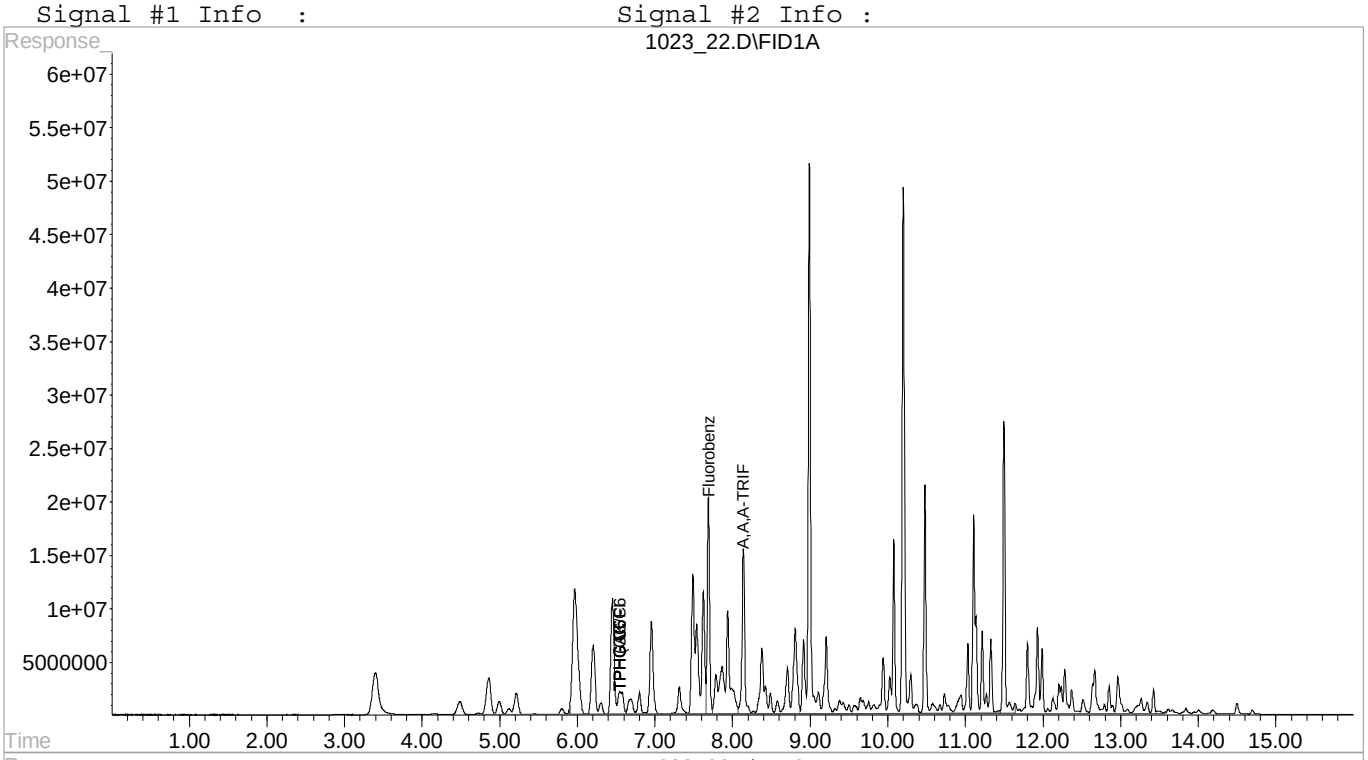
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	431779988	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1401125914	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	370580050	213.9851395 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 106.99%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	873440389	238.0628297 ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 119.03%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10874980674	5.3810851 ppm
3) H,M TPHG C6 - C12	6.53	10581428981	5.3906074 ppm
4) H,M TPHGAK C6 to C10	6.53	8510470505	5.3541853 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	9039817761	5.3632867 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	569742515	166.2876659 ppb
11) T,M benzene	7.53	816489158	62.2732003 ppb
12) T,M toluene	8.99	3371555394	264.6651598 ppb
13) T,M ethylbenzene	10.07	1059669778	94.3020142 ppb
14) T,M m&p-xylene	10.20	3516413626	285.6273515 ppb
15) T,M o-xylene	10.48	1313564943	118.1073328 ppb

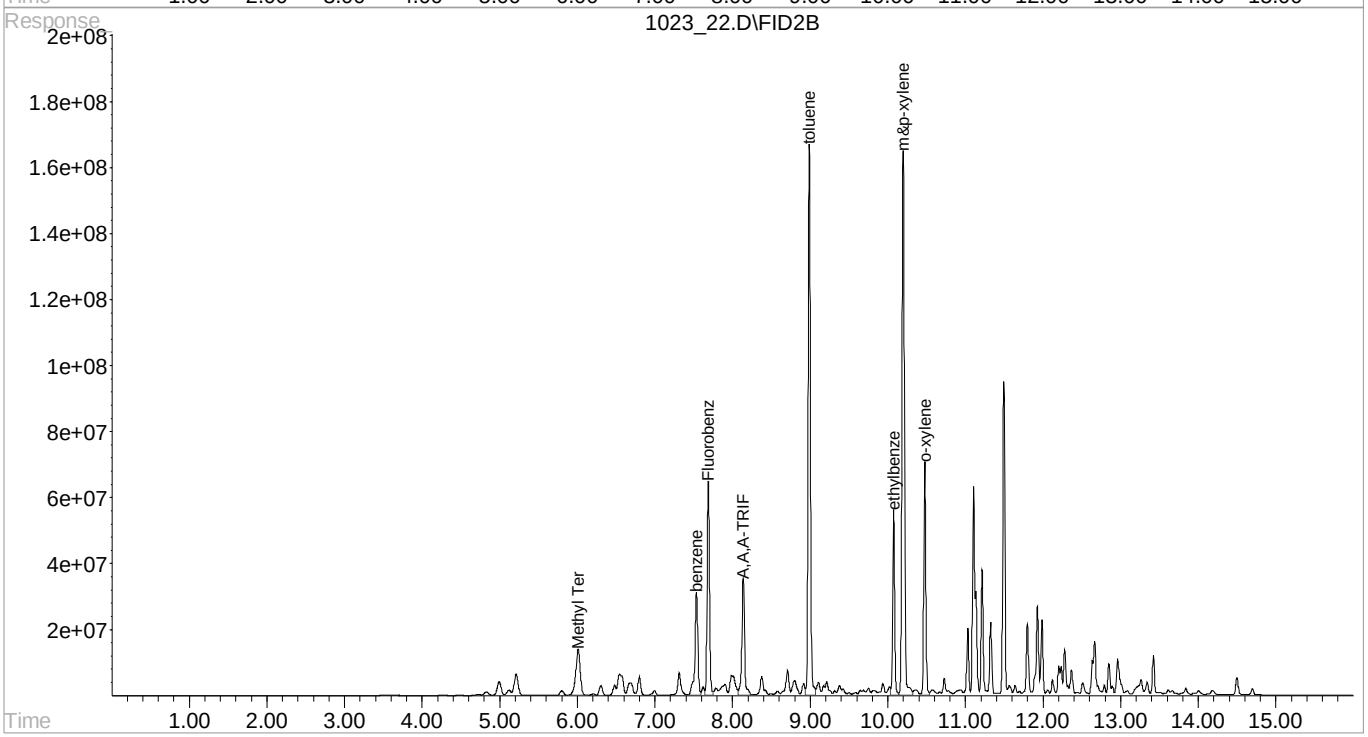
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 22.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 22.D\FID2B.CH
Acq On : 23 Oct 2014 8:49 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J20195 Inst : VOCGC10
Misc : water ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 11:50 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 30.D\FID1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 30.D\FID2B.CH
Acq On : 24 Oct 2014 12:00 am Operator: 621
Sample : L729026-04 1x WG750198 GRO tb Inst : VOCGC10
Misc : water ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 11:52 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

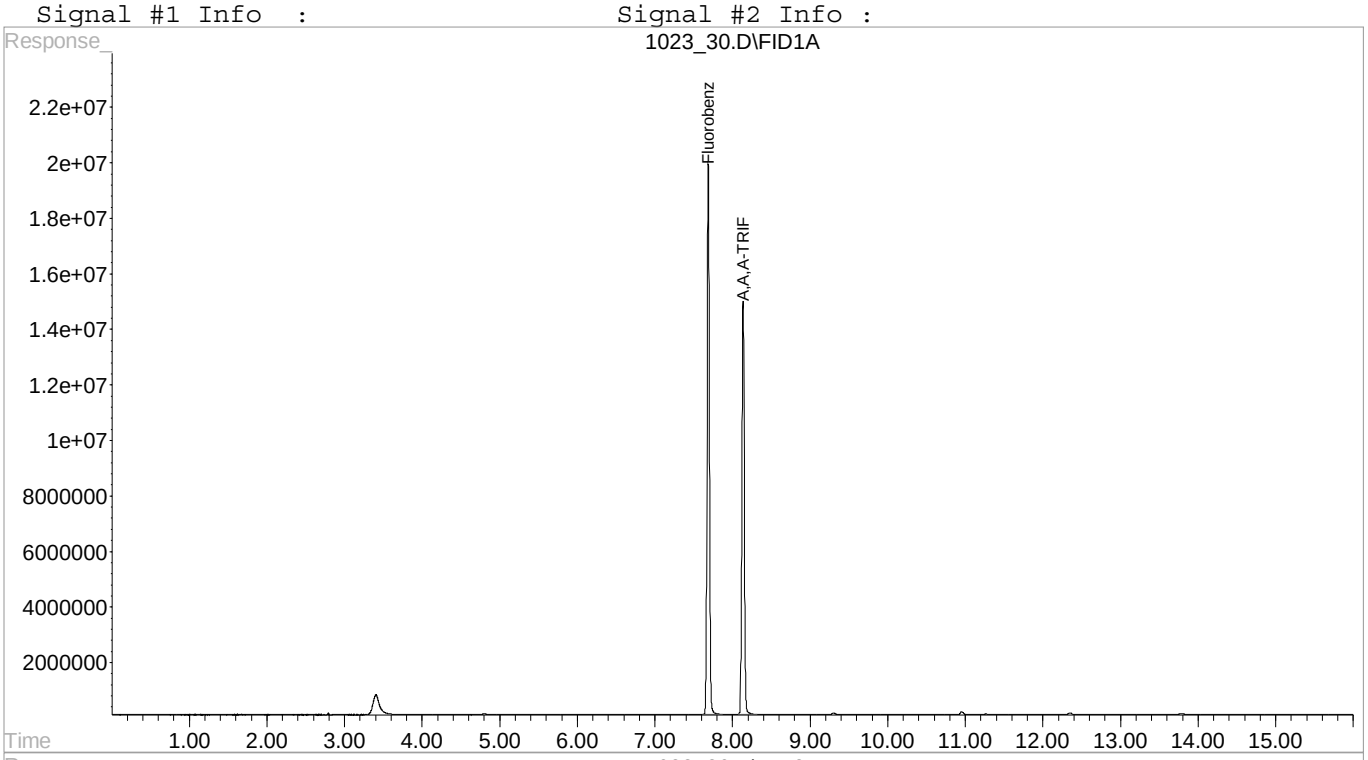
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	411341621	200.0000000	ppb
8) I Fluorobenzene #2	7.68	1342903613	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	312527951	189.4306715	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 94.72%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	719783348	204.6880269	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 102.34%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	33843375	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	31013214	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	17250048	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	18085186	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.53	656441	0.0522370	ppb
12) T,M toluene	8.99	1037663	0.0849875	ppb
13) T,M ethylbenzene	10.07	358552	0.0332916	ppb
14) T,M m&p-xylene	10.20	1470575	0.1246290	ppb
15) T,M o-xylene	10.47	383954	0.0360194	ppb

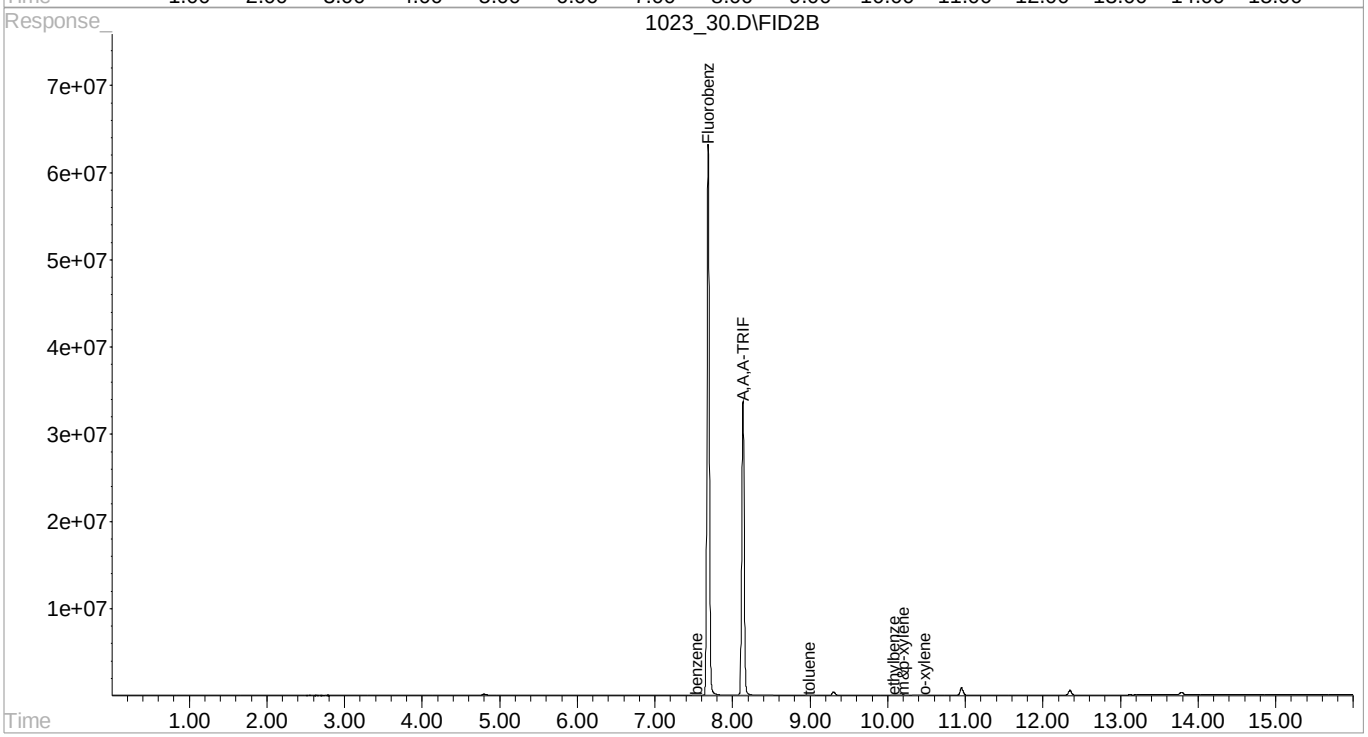
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 30.D\FID1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 30.D\FID2B.CH
Acq On : 24 Oct 2014 12:00 am Operator: 621
Sample : L729026-04 1x WG750198 GRO tb Inst : VOCGC10
Misc : water ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 11:52 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 36.D\FID1A.CH Vial: 35
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 36.D\FID2B.CH
Acq On : 24 Oct 2014 2:15 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 11:53 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

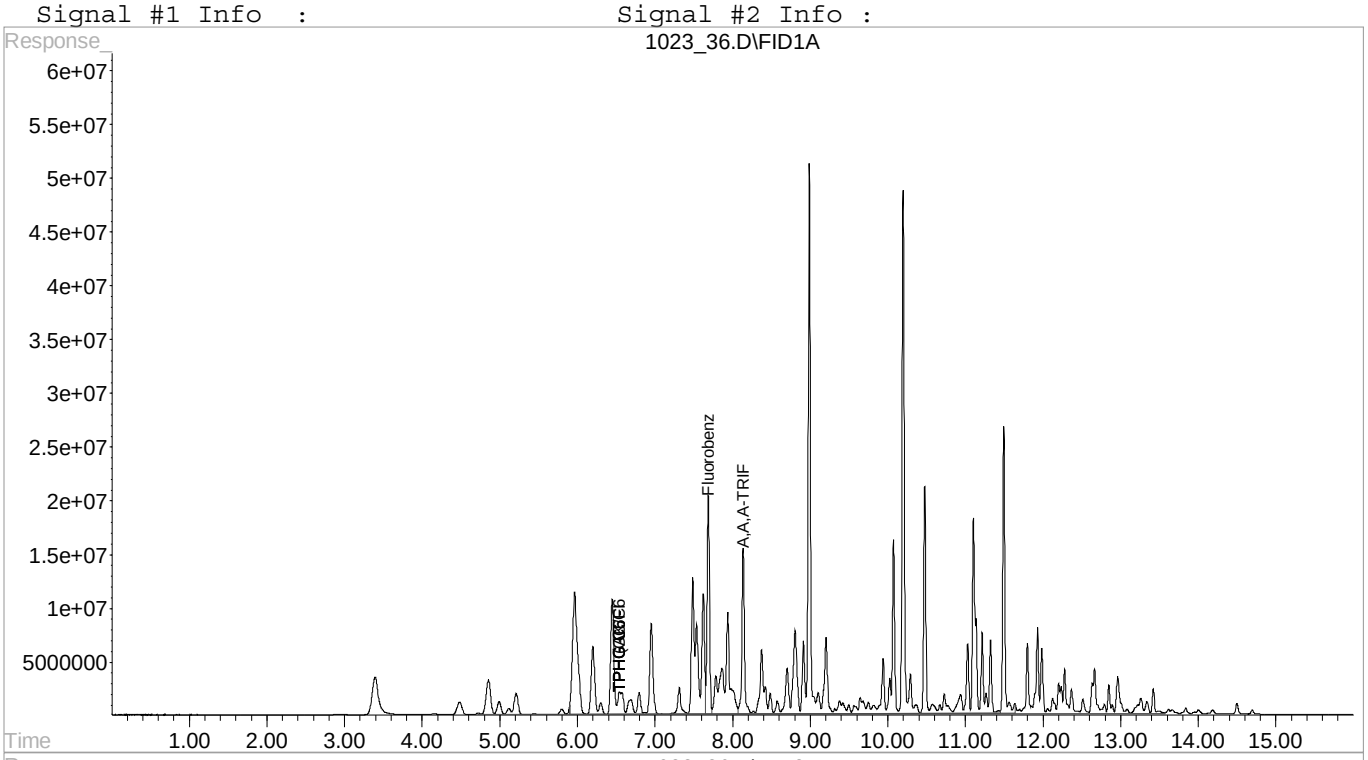
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	428925080	200.0000000 ppb
8) I Fluorobenzene #2	7.68	1380378474	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	368409775	214.1478863 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 107.07%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	860905363	238.1731069 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 119.09%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10657209047	5.3067815 ppm
3) H,M TPHG C6 - C12	6.53	10381178413	5.3222547 ppm
4) H,M TPHGAK C6 to C10	6.53	8322824424	5.2690497 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	8844016390	5.2801086 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	548418083	162.4696193 ppb
11) T,M benzene	7.53	795007532	61.5461645 ppb
12) T,M toluene	8.99	3325813588	264.9984699 ppb
13) T,M ethylbenzene	10.07	1040610419	93.9977760 ppb
14) T,M m&p-xylene	10.20	3456958783	285.0184852 ppb
15) T,M o-xylene	10.47	1287750900	117.5265973 ppb

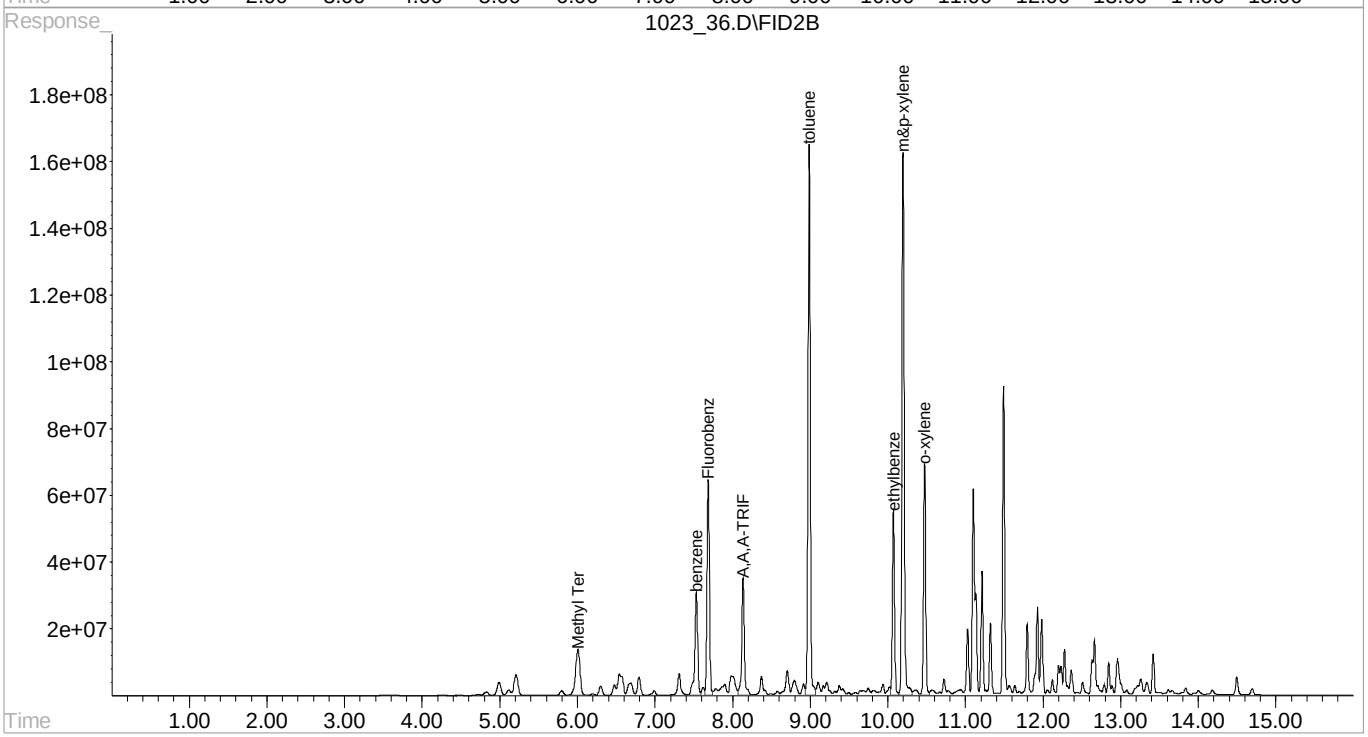
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 36.D\FID1A.CH Vial: 35
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 36.D\FID2B.CH
Acq On : 24 Oct 2014 2:15 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 11:53 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\102314\1023 55.D\FID1A.CH Vial: 54
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 55.D\FID2B.CH
Acq On : 24 Oct 2014 10:17 am Operator: 621
Sample : CCV GRO 5.5g ppm 14J20195 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 11:58 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

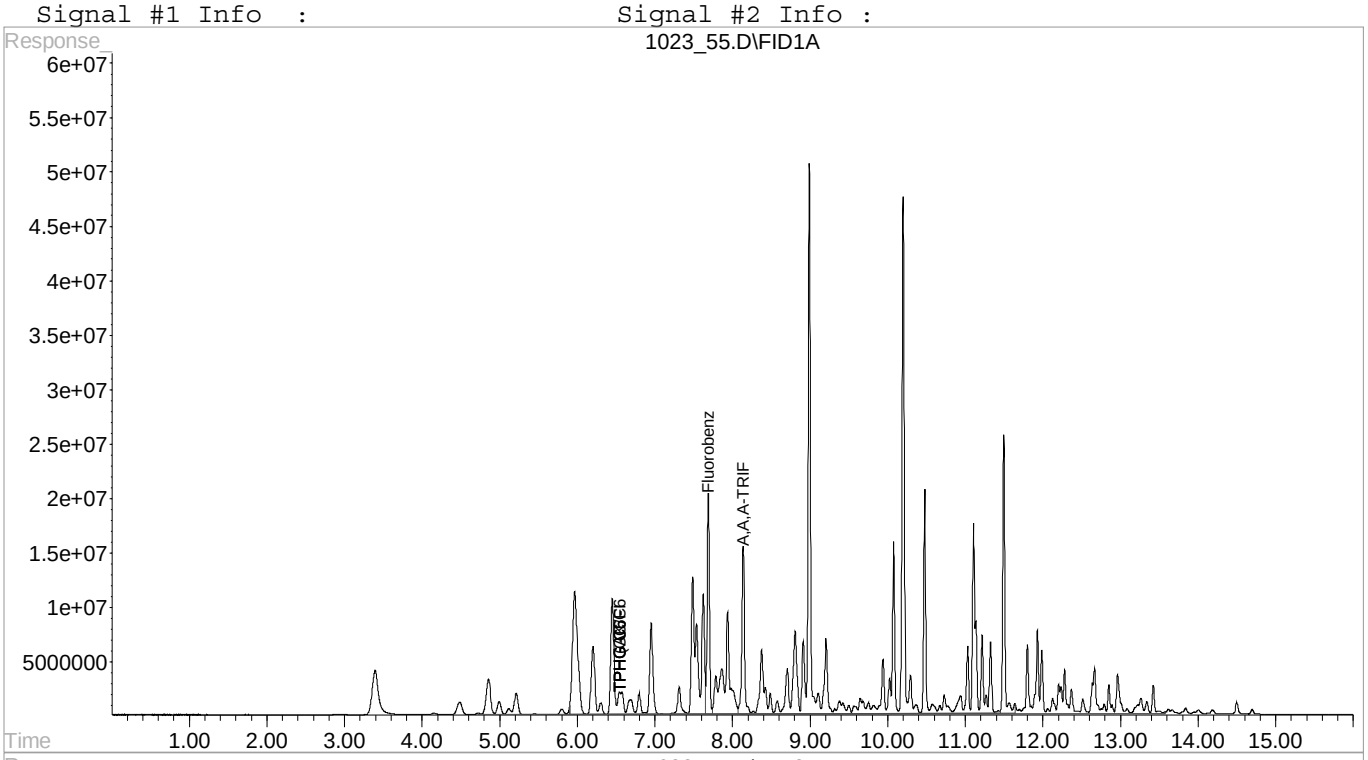
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	427728556	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1395099227	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	367069330	213.9655932 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 106.98%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	869273186	237.9505275 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 118.98%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10449737408	5.2159874 ppm
3) H,M TPHG C6 - C12	6.53	10177900172	5.2305454 ppm
4) H,M TPHGAK C6 to C10	6.53	8166232063	5.1823765 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	8664860699	5.1853824 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	576102500	168.8702850 ppb
11) T,M benzene	7.53	799524673	61.2427524 ppb
12) T,M toluene	8.99	3323832636	262.0460942 ppb
13) T,M ethylbenzene	10.07	1032151902	92.2499428 ppb
14) T,M m&p-xylene	10.20	3379386560	275.6828683 ppb
15) T,M o-xylene	10.47	1274256065	115.0678741 ppb

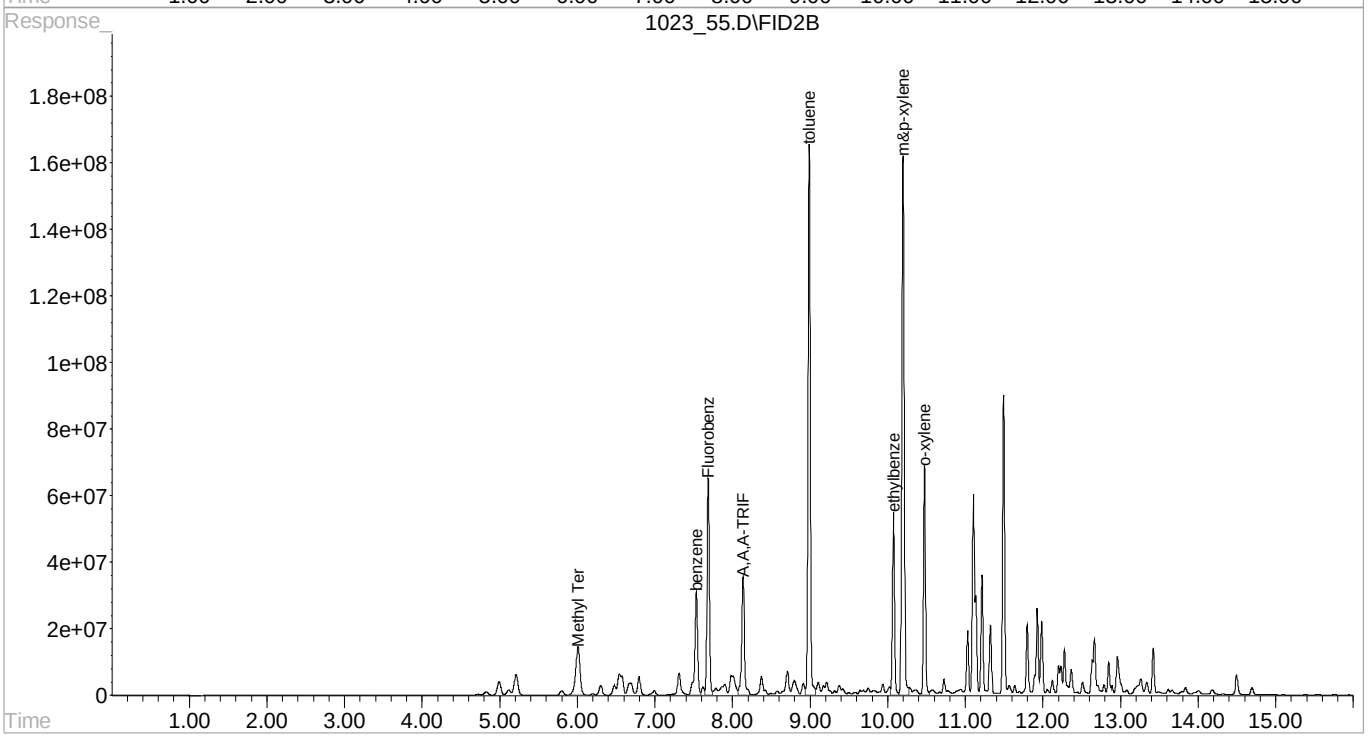
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102314\1023 55.D\FID1A.CH Vial: 54
Signal #2 : C:\HPCHEM\1\DATA\102314\1023 55.D\FID2B.CH
Acq On : 24 Oct 2014 10:17 am Operator: 621
Sample : CCV GRO 5.5g ppm 14J20195 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 11:58 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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 : VOCGC12
Computer Name : VOCCOMPX
Released By : Heidi Ferrell
Date Released : 10/24/2014 8:36:58 AM
Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1023_01	INSTBLK	BG12H21N						1	1	10/23/14 1100	"water SURIS14F10114"
2	1023_02	RT	BG12H21N						1	1	10/23/14 1121	"water SURIS14F10114"
3	1023_03	ICV GRO 5.5G PPM 14J20195	BG12H21N						1	1	10/23/14 1142	"water SURIS14F10114"
4	1023_04	LCSGRO	BG12H21N	WG749955	GROWY	GW			1	1	10/23/14 1239	"water SURIS14F10114/SPK14J20194"
5	1023_05	LCSDGRO	BG12H21N	WG749955	GROWY	GW			1	1	10/23/14 1300	"water SURIS14F10114/SPK14J20194"
6	1023_06	DNR MSGRO	BG12H21N	WG749955					1	1	10/23/14 1401	"water SURIS14F10114/SPK14J20194"
7	1023_07	MSGRO	BG12H21N	WG749955	GROWY	GW			1	1	10/23/14 1433	"water SURIS14F10114/SPK14J20194"
8	1023_08	MSDGRO	BG12H21N	WG749955	GROWY	GW			1	1	10/23/14 1454	"water SURIS14F10114/SPK14J20194"
9	1023_09	INSTBLK	BG12H21N						1	1	10/23/14 1514	"water SURIS14F10114"
10	1023_10	BLANK	BG12H21N	WG749955	GROWY	GW			1	1	10/23/14 1535	"water SURIS14F10114"
11	1023_11	L728690-01	BG12H21N	WG749955	GROWY	GW	DELTAUT	WY	1	1	10/23/14 1556	"water SURIS14F10114"
12	1023_12	L728690-02	BG12H21N	WG749955	GROWY	GW	DELTAUT	WY	1	1	10/23/14 1617	"water SURIS14F10114"
13	1023_13	L728690-03	BG12H21N	WG749955	GROWY	GW	DELTAUT	WY	1	1	10/23/14 1638	"water SURIS14F10114"
14	1023_23	CCV GRO 5.5G PPM 14J20195	BG12H21N						1	1	10/23/14 1934	"water SURIS14F10114"
15	1023_35	INSTBLK	BG12H21N						1	1	10/24/14 0008	"soil SURIS14F10114"
16	1023_36	RT	BG12H21N						1	1	10/24/14 0029	"soil SURIS14F10114"
17	1023_37	ICV GRO 5.5G PPM 14J20195	BG12H21N						1	1	10/24/14 0050	"soil SURIS14F10114"
18	1023_38	LCSGRO	BG12H21N	WG750203	GRO	SS			1	1	10/24/14 0137	"soil SURIS14F10114/SPK14J20194"
19	1023_39	LCSDGRO	BG12H21N	WG750203	GRO	SS			1	1	10/24/14 0158	"soil SURIS14F10114/SPK14J20194"
20	1023_40	MSGRO	BG12H21N	WG750203	GRO	SS			5	5	10/24/14 0228	"soil SURIS14F10114/SPK14J20194"
21	1023_41	MSDGRO	BG12H21N	WG750203	GRO	SS			5	5	10/24/14 0249	"soil SURIS14F10114/SPK14J20194"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : Heidi Ferrell
Date Released : 10/24/2014 8:36:58 AM
Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1023_42	INSTBLK	BG12H21N						1	1	10/24/14 0310	"soil SURIS14F10114"
23	1023_43	BLANK	BG12H21N	WG750203	GRO	SS			1	1	10/24/14 0331	"soil SURIS14F10114"
24	1023_44	L728909-01	BG12H21N	WG750203	GRO	SS	OXYGJCO	CO	5	5	10/24/14 0403	"soil SURIS14F10114"
25	1023_45	L728346-06	BG12H21N	WG750203	GRO	SS	HIGGINCO	NM	1	1	10/24/14 0424	"soil SURIS14F10114"
26	1023_46	L728519-12	BG12H21N	WG750203	GRO	SS	LAWENGWN	NC	25	25	10/24/14 0445	"soil SURIS14F10114"
27	1023_47	L729024-01	BG12H21N	WG750203	GRO	SS	URSTAZ	NM	1	0.78	10/24/14 0505	"soil SURIS14F10114"
28	1023_48	L729024-02	BG12H21N	WG750203	GRO	SS	URSTAZ	NM	1	0.77	10/24/14 0526	"soil SURIS14F10114"
29	1023_49	L729024-04	BG12H21N	WG750203	GRO	SS	URSTAZ	NM	1	0.74	10/24/14 0547	"soil SURIS14F10114"
30	1023_50	L729024-05	BG12H21N	WG750203	GRO	SS	URSTAZ	NM	1	0.77	10/24/14 0608	"soil SURIS14F10114"
31	1023_51	L729026-01	BG12H21N	WG750203	GRO	SS	URSTAZ	NM	1.16	1.16	10/24/14 0628	"soil SURIS14F10114"
32	1023_52	L729026-02	BG12H21N	WG750203	GRO	SS	URSTAZ	NM	1	0.71	10/24/14 0649	"soil SURIS14F10114"
33	1023_53	L729026-03	BG12H21N	WG750203	GRO	SS	URSTAZ	NM	1	0.93	10/24/14 0710	"soil SURIS14F10114"
34	1023_54	INSTBLK	BG12H21N						1	1	10/24/14 0730	"soil SURIS14F10114"
35	1023_55	RT	BG12H21N						1	1	10/24/14 0751	"soil SURIS14F10114"
36	1023_56	CCV GRO 5.5G PPM 14J20195	BG12H21N						1	1	10/24/14 0812	"soil SURIS14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 03.D\FID2B.CH
Acq On : 23 Oct 2014 11:42 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:20:36 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

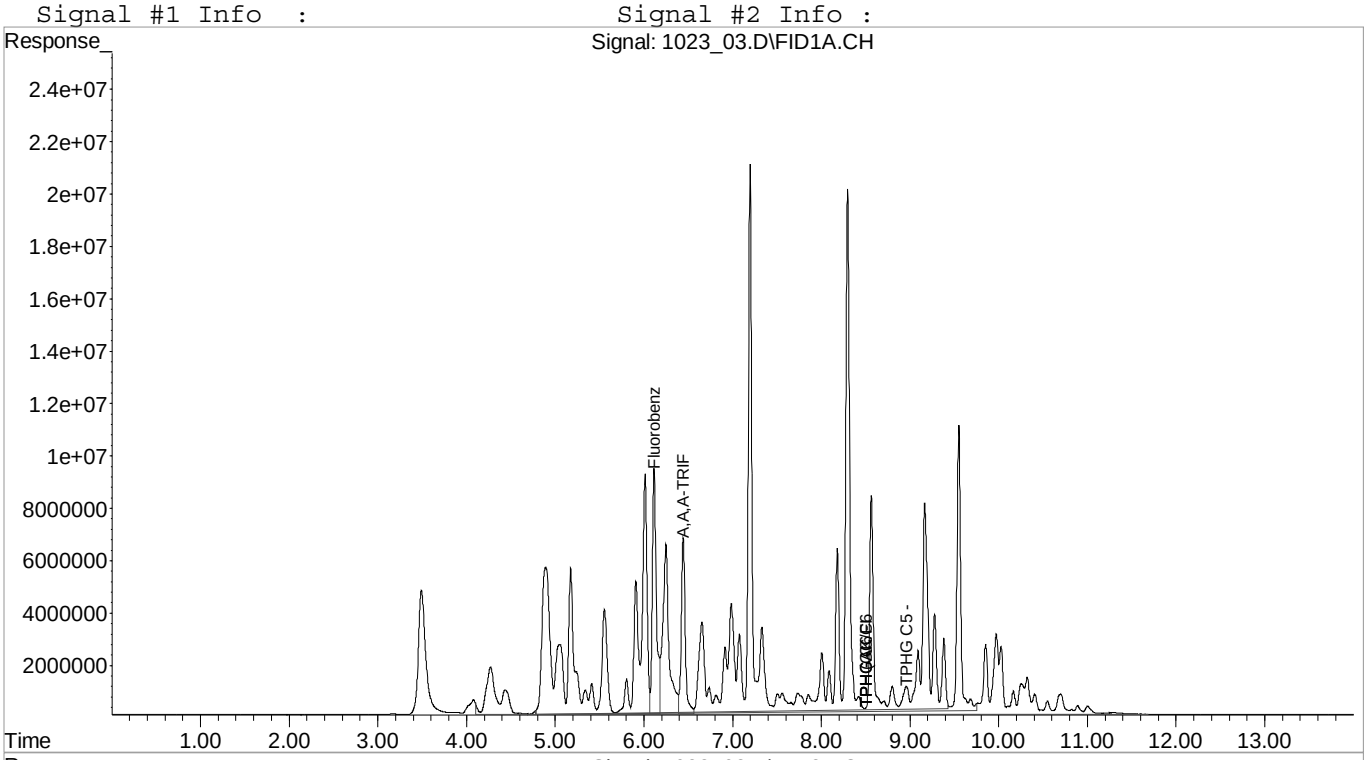
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	294491905	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1107332441	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	208532602	188.6213997	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 94.31%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	601487772	208.7993558	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 104.40%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	344908	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6300683004	5.2994385	ppm
4) H,M TPHG C6 - C12	8.50	6081241505	5.3186041	ppm
5) H,M TPHGAK C6 to C10	8.50	4866369600	5.3102083	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5310812325	5.3066339	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	461733515	167.3936739	ppb
12) T,M benzene	6.01	632106573	67.0051755	ppb
13) T,M toluene	7.19	2138850931	258.1531105	ppb
14) T,M ethylbenzene	8.18	711141681	98.4696571	ppb
15) T,M m&p-xylene	8.29	2278074820	272.1467216	ppb
16) T,M o-xylene	8.56	965928104	132.4821015	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	524694092	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1422253509	NoCal	ppb
19) T,M Naphthalene	11.48	1688308	NoCal	ppb

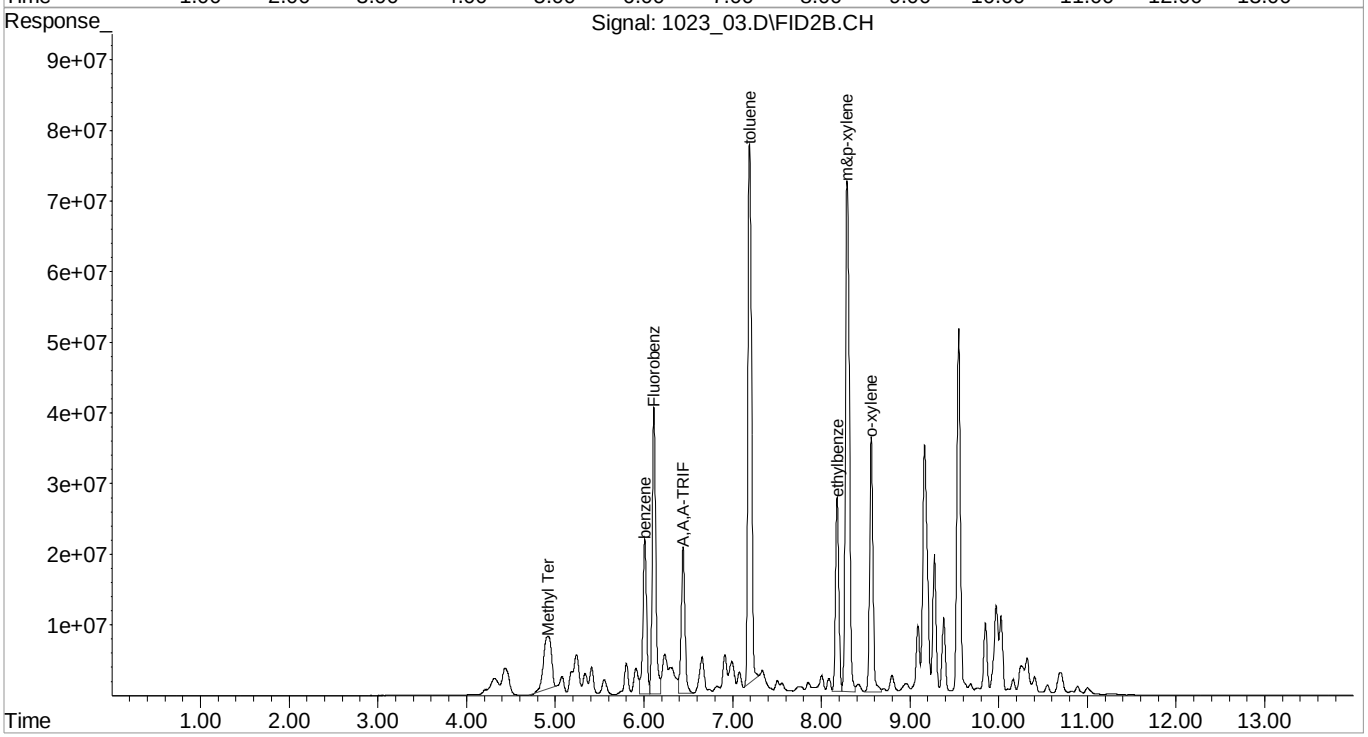
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 03.D\FID2B.CH
Acq On : 23 Oct 2014 11:42 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 23 16:20 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 37.D\FID1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 37.D\FID2B.CH
Acq On : 24 Oct 2014 12:50 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:14 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

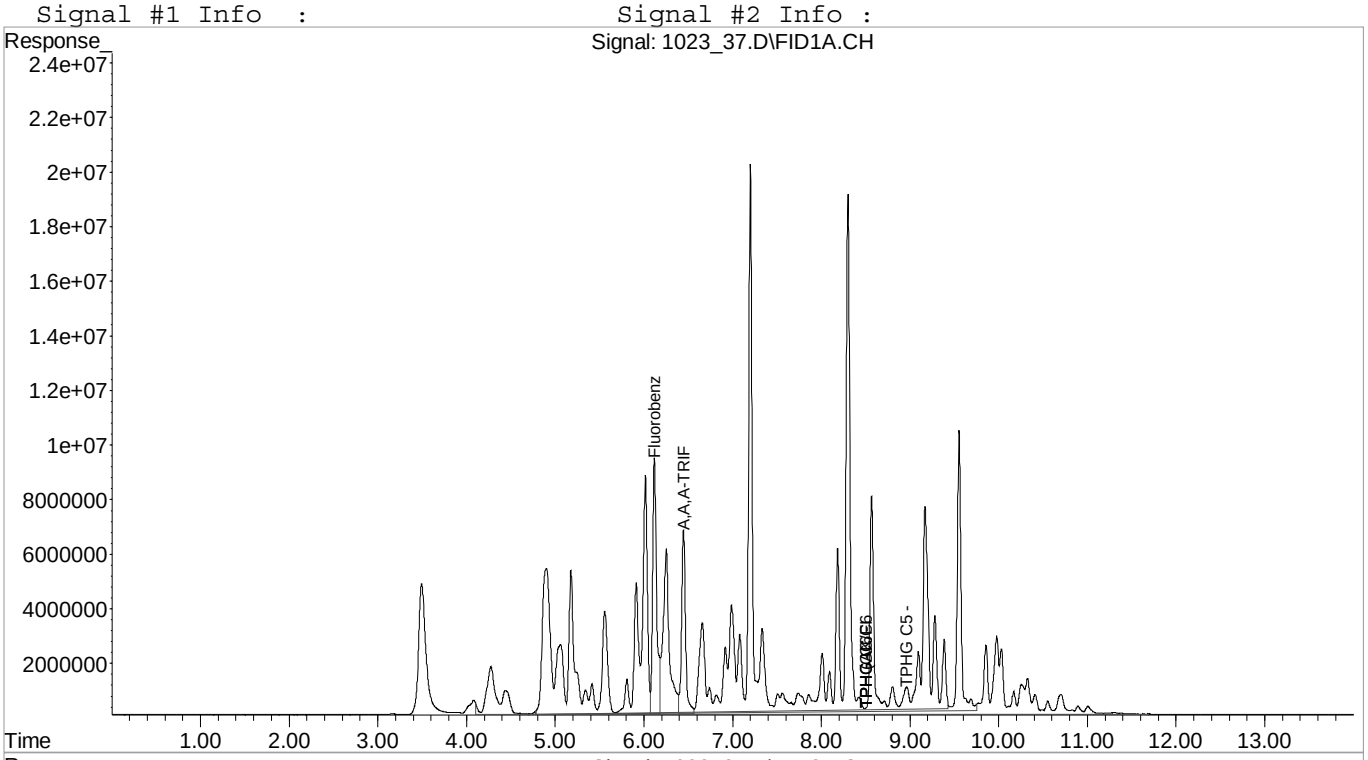
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	290348742	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1114668820	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207870533	190.7055549	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 95.35%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	673030496	232.0968604	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 116.05%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	212453	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5988725983	5.1029117	ppm
4) H,M TPHG C6 - C12	8.50	5779506774	5.1209416	ppm
5) H,M TPHGAK C6 to C10	8.50	4622180567	5.1107964	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5052924340	5.1170171	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	436064208	157.0472203	ppb
12) T,M benzene	6.01	611055142	64.3473427	ppb
13) T,M toluene	7.19	2060410046	247.0487578	ppb
14) T,M ethylbenzene	8.18	661306849	90.9664995	ppb
15) T,M m&p-xylene	8.29	2189908510	259.8922118	ppb
16) T,M o-xylene	8.57	898812381	122.4654614	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	481379267	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1303492968	NoCal	ppb
19) T,M Naphthalene	11.49	1590711	NoCal	ppb

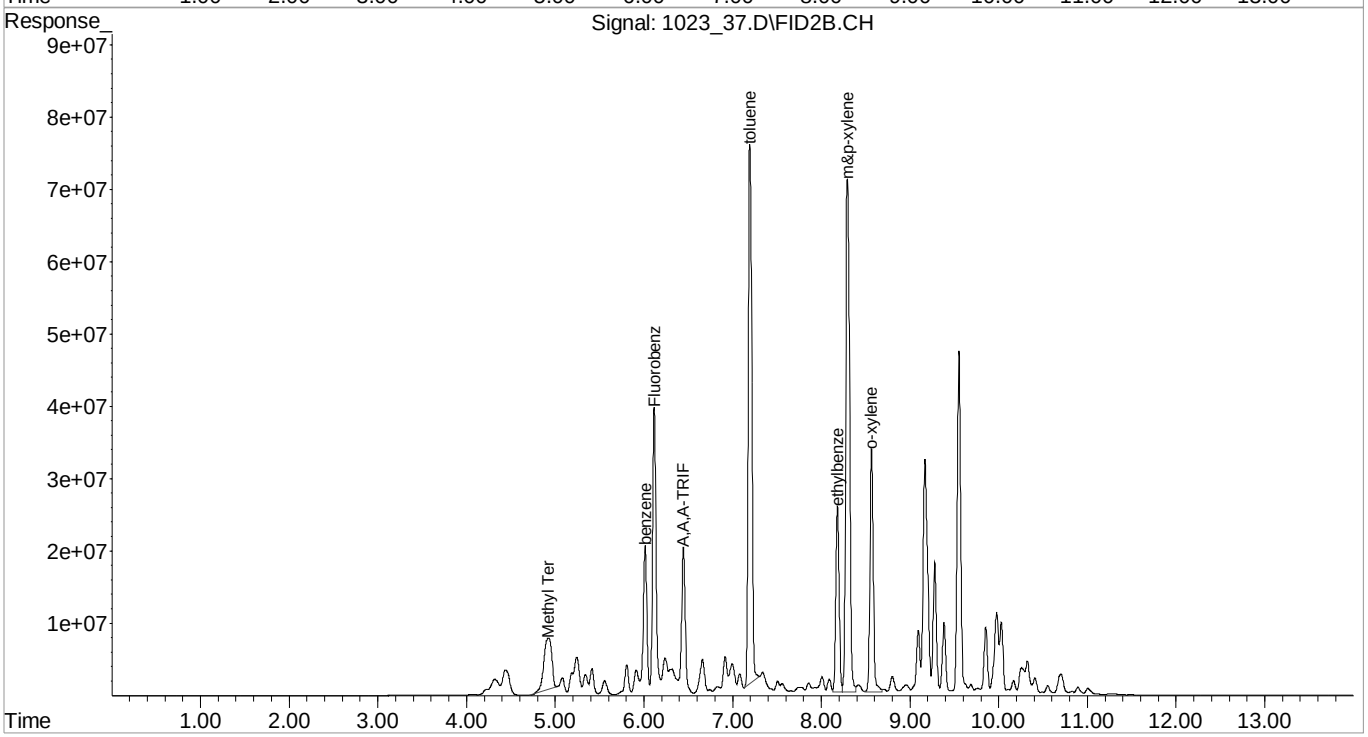
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 37.D\FID1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 37.D\FID2B.CH
Acq On : 24 Oct 2014 12:50 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 38.D\FID1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 38.D\FID2B.CH
Acq On : 10-24-2014 01:37:36 AM Operator: 621
Sample : LCSGRO 1x WG750203 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:17 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

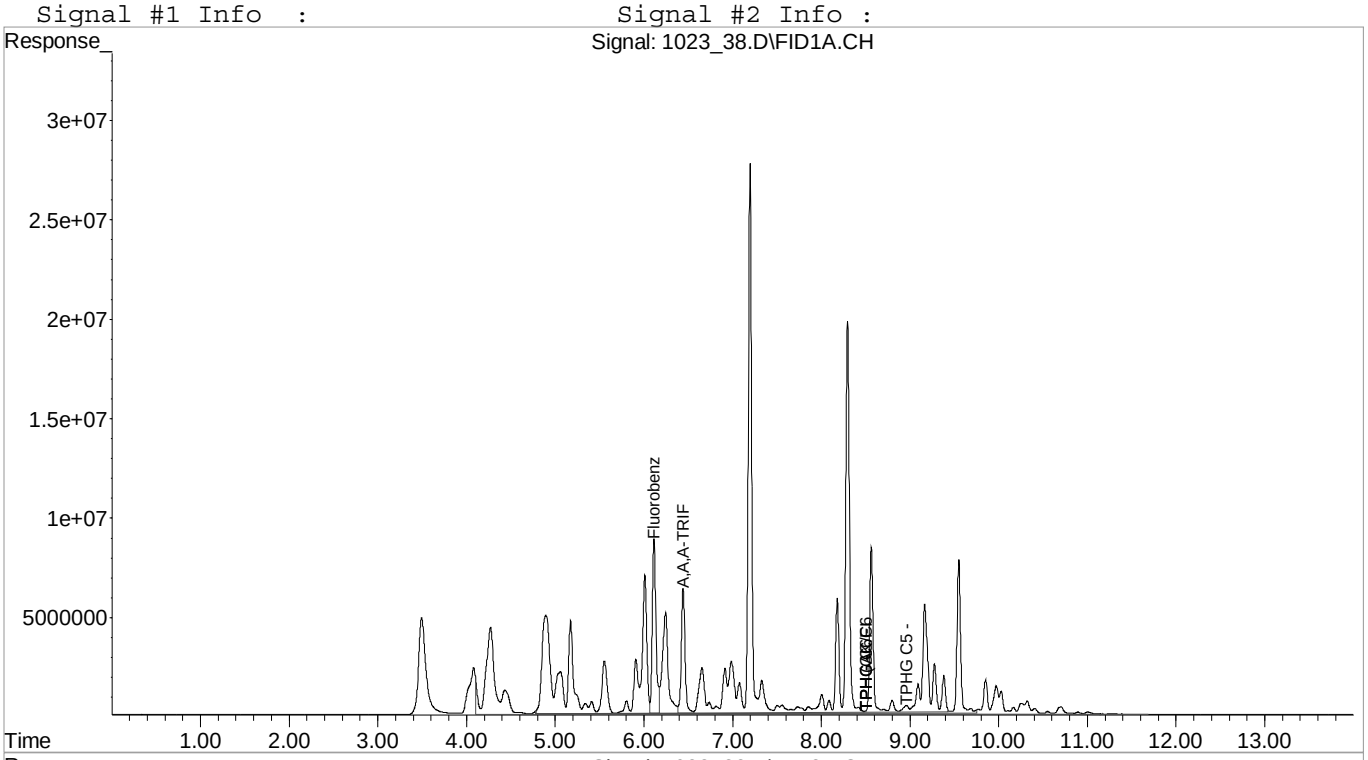
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	247856331	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1022639439	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	181352794	194.9012366	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 97.45%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	550844443	207.0555187	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 103.53%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	95322	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5045749836	5.0343257	ppm
4) H,M TPHG C6 - C12	8.50	4603652839	4.7674499	ppm
5) H,M TPHGAK C6 to C10	8.50	3900135899	5.0501907	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4249951677	5.0400380	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	380061711	149.1960231	ppb
12) T,M benzene	6.01	601353669	69.0245357	ppb
13) T,M toluene	7.19	2629903721	343.7100102	ppb
14) T,M ethylbenzene	8.18	662181929	99.2839625	ppb
15) T,M m&p-xylene	8.29	2254319936	291.6125166	ppb
16) T,M o-xylene	8.56	967488413	143.6857385	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	363249070	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	993924752	NoCal	ppb
19) T,M Naphthalene	11.49	832021	NoCal	ppb

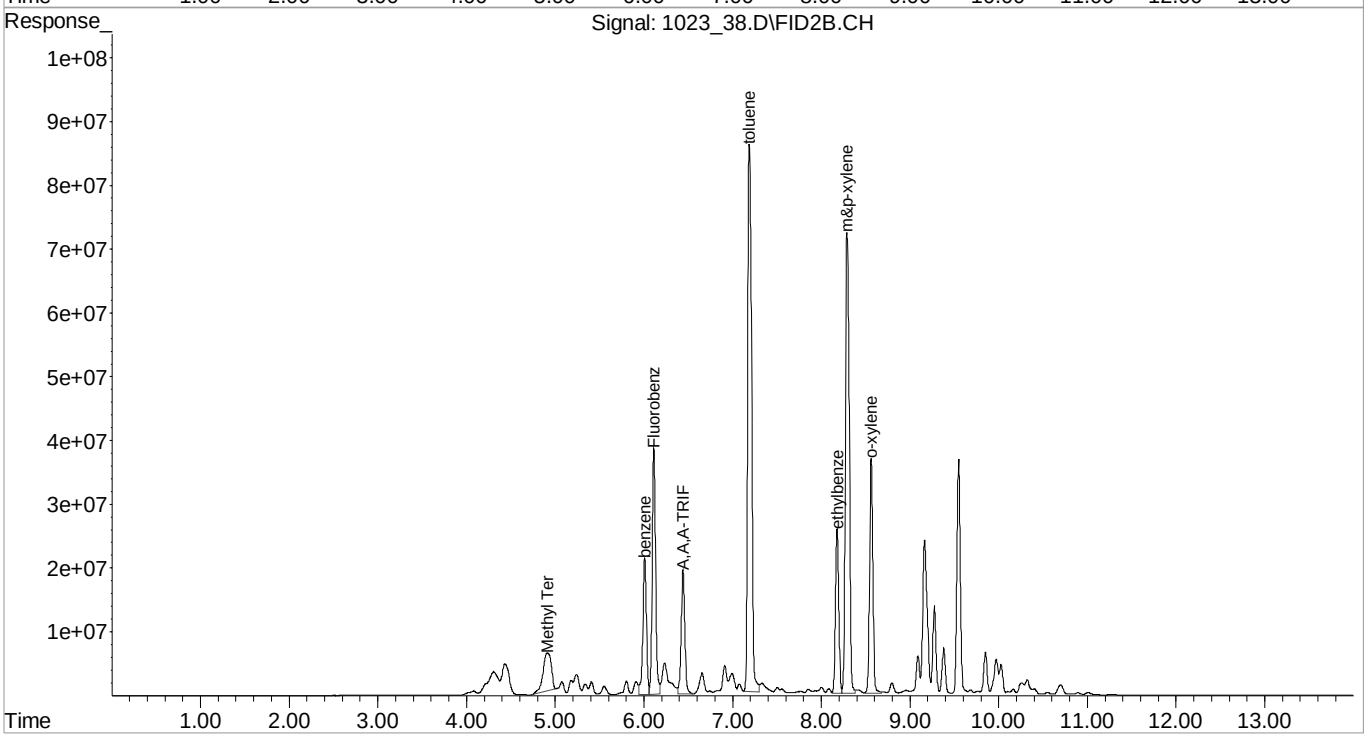
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 38.D\FID1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 38.D\FID2B.CH
Acq On : 10-24-2014 01:37:36 AM Operator: 621
Sample : LCSGRO 1x WG750203 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 39.D\FID1A.CH Vial: 39
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 39.D\FID2B.CH
Acq On : 10-24-2014 01:58:24 AM Operator: 621
Sample : LCSDGRO 1x WG750203 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:20 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

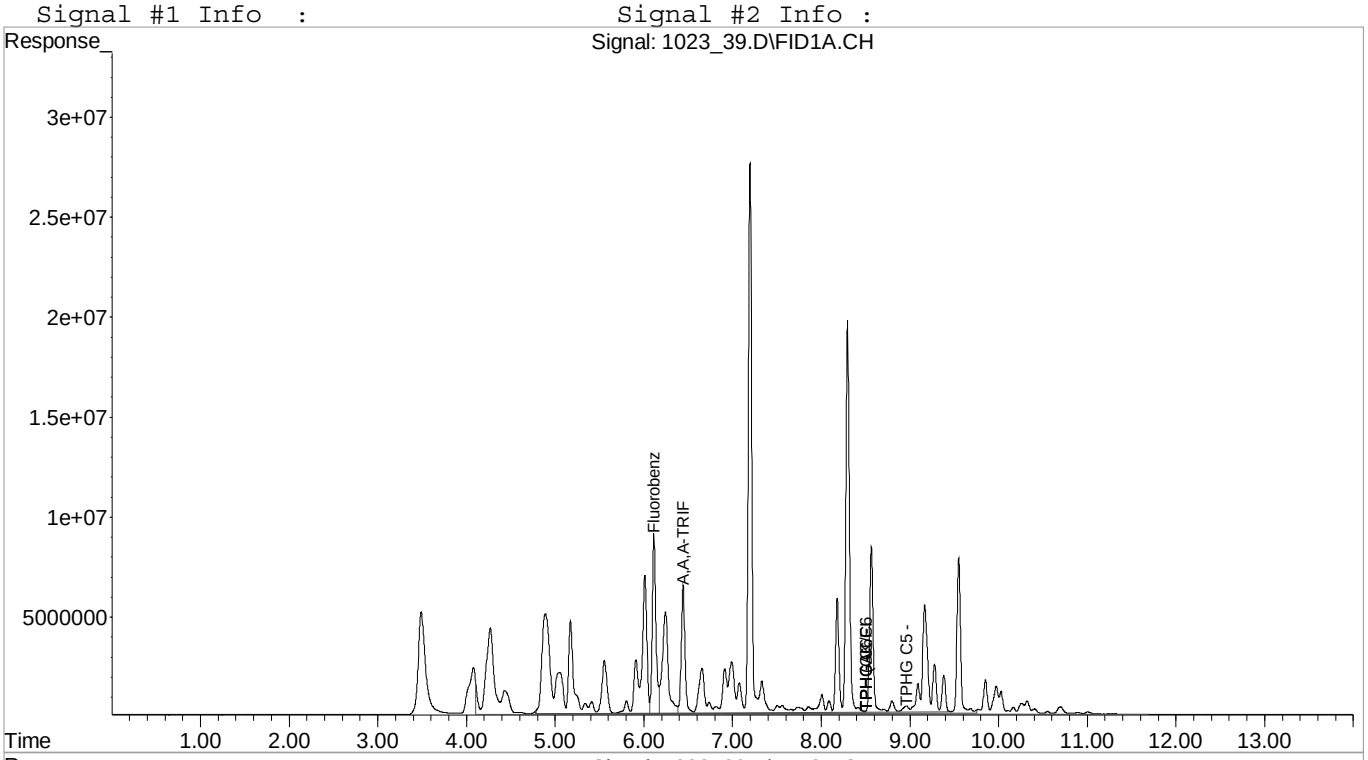
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	255483675	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1038880283	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	189174100	197.2372254	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.62%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	554200648	205.0604474	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 102.53%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	50987	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	4995829507	4.8291014	ppm
4) H,M TPHG C6 - C12	8.50	4557932523	4.5727284	ppm
5) H,M TPHGAK C6 to C10	8.50	3857407049	4.8403005	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4210503553	4.8397659	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	385141766	148.8266751	ppb
12) T,M benzene	6.01	588972102	66.5465104	ppb
13) T,M toluene	7.19	2577110934	331.5449967	ppb
14) T,M ethylbenzene	8.18	649380416	95.8424700	ppb
15) T,M m&p-xylene	8.29	2215420222	282.1004366	ppb
16) T,M o-xylene	8.56	950823335	139.0031870	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	353913072	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	980315604	NoCal	ppb
19) T,M Naphthalene	11.48	778705	NoCal	ppb

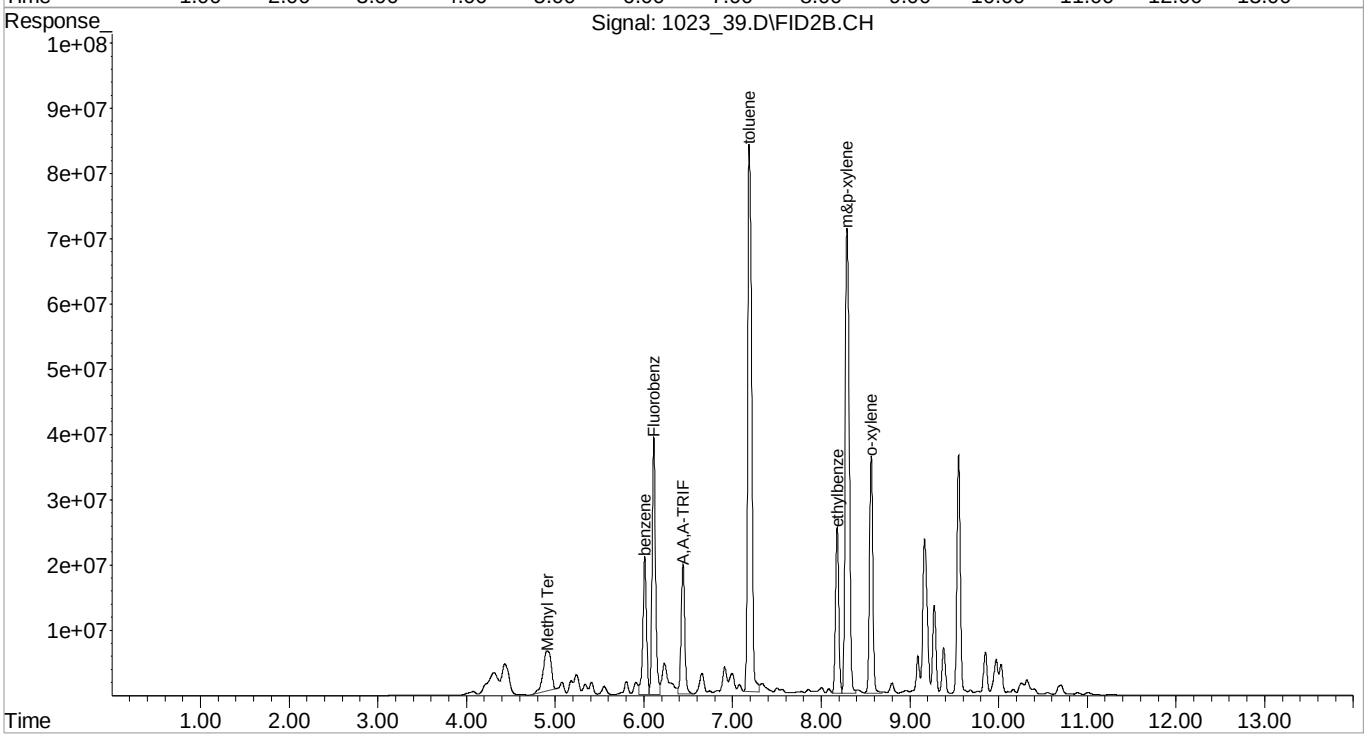
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 39.D\FID1A.CH Vial: 39
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 39.D\FID2B.CH
Acq On : 10-24-2014 01:58:24 AM Operator: 621
Sample : LCSDGRO 1x WG750203 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 40.D\FID1A.CH Vial: 40
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 40.D\FID2B.CH
Acq On : 10-24-2014 02:28:59 AM Operator: 621
Sample : MSGRO 5x WG750203 L728909-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J20194 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:22 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

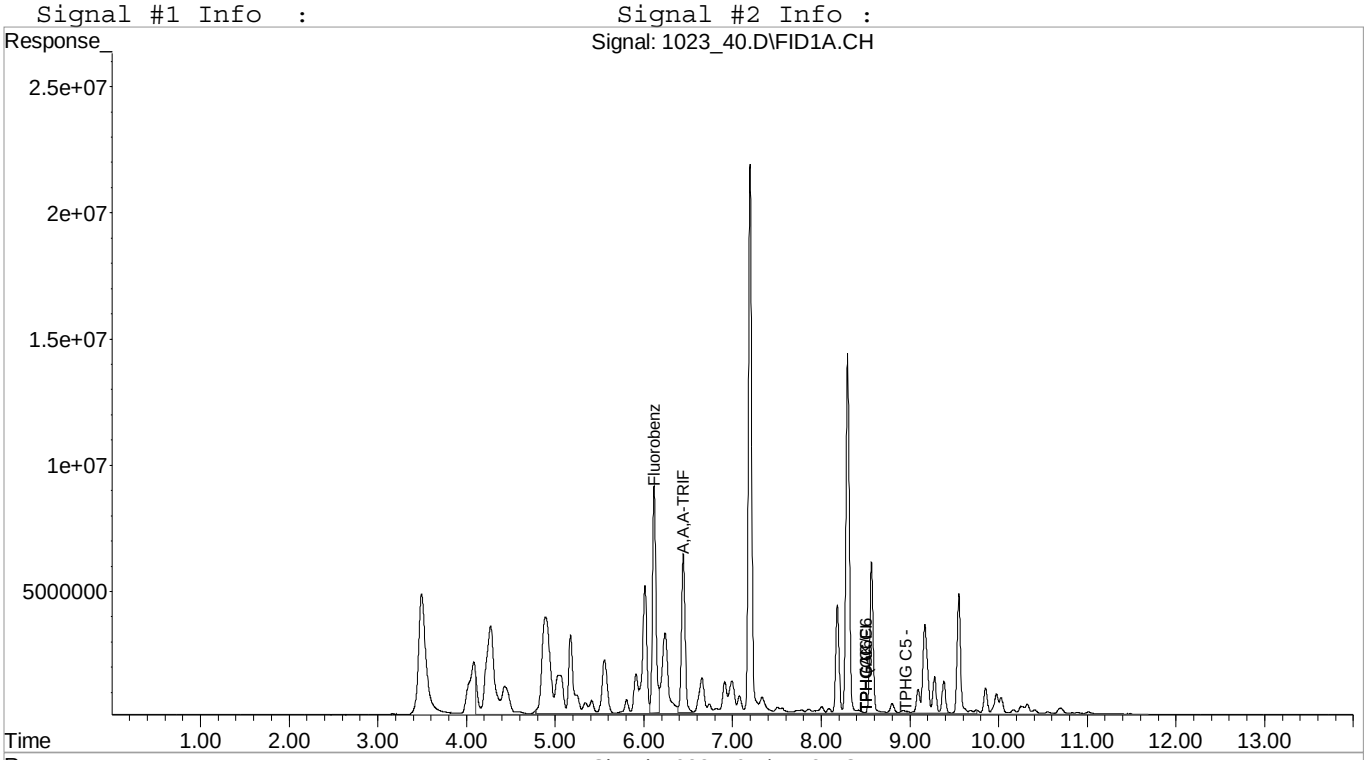
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	246374341	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1028023369	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	176612636	190.9486788	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 95.47%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	540269957	202.0171344	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 101.01%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	2818	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	3482758781	17.2229947	ppm
4) H,M TPHG C6 - C12	8.50	3097075037	15.8685158	ppm
5) H,M TPHGAK C6 to C10	8.50	2718081973	17.5028353	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	2886955701	17.0412099	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	323675397	631.9786006	ppb
12) T,M benzene	6.01	486721646	277.8713336	ppb
13) T,M toluene	7.19	2291929560	1489.8520813	ppb
14) T,M ethylbenzene	8.18	479025803	357.2319050	ppb
15) T,M m&p-xylene	8.29	1819677439	1170.7780579	ppb
16) T,M o-xylene	8.56	681493115	503.4066167	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	224544321	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	607431433	NoCal	ppb
19) T,M Naphthalene	11.49	456658	NoCal	ppb

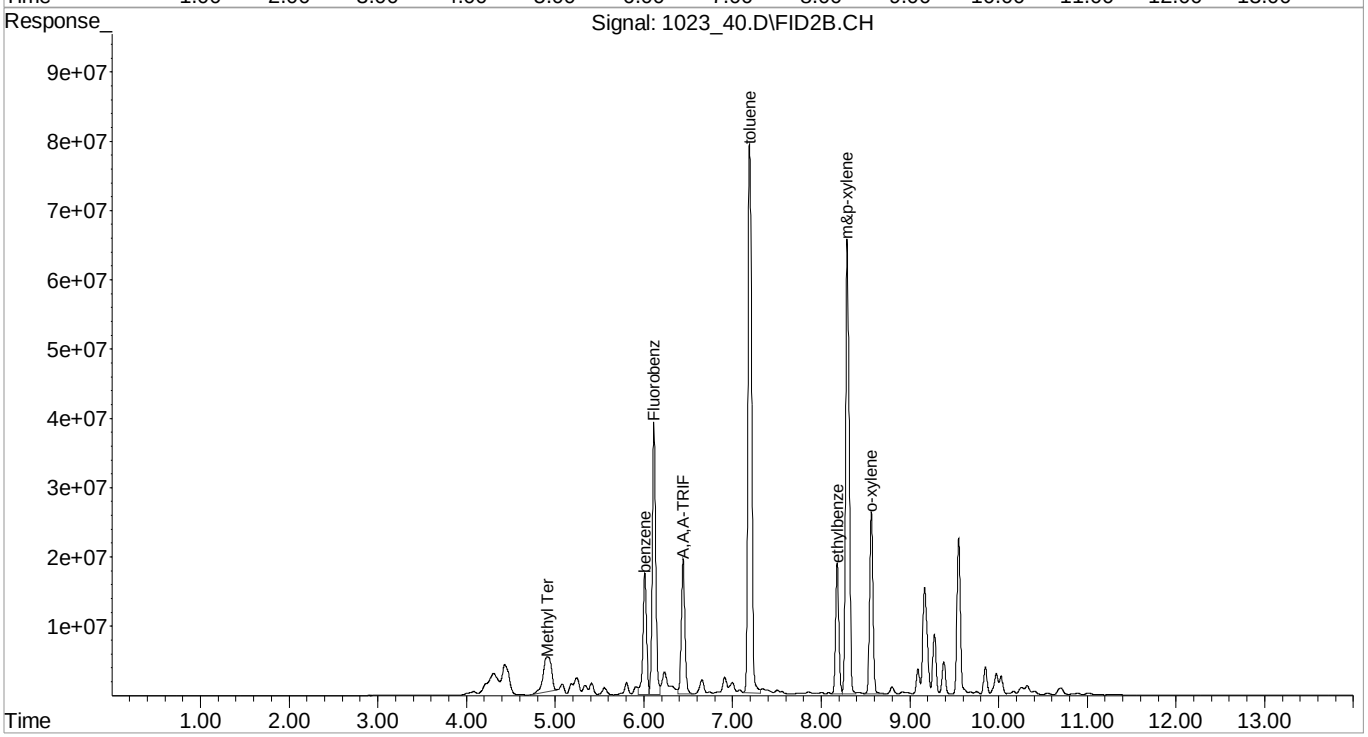
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 40.D\FID1A.CH Vial: 40
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 40.D\FID2B.CH
Acq On : 10-24-2014 02:28:59 AM Operator: 621
Sample : MSGRO 5x WG750203 L728909-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J20194 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 41.D\FID1A.CH Vial: 41
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 41.D\FID2B.CH
Acq On : 10-24-2014 02:49:44 AM Operator: 621
Sample : MSDGRO 5x WG750203 L728909-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J20194 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:25 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

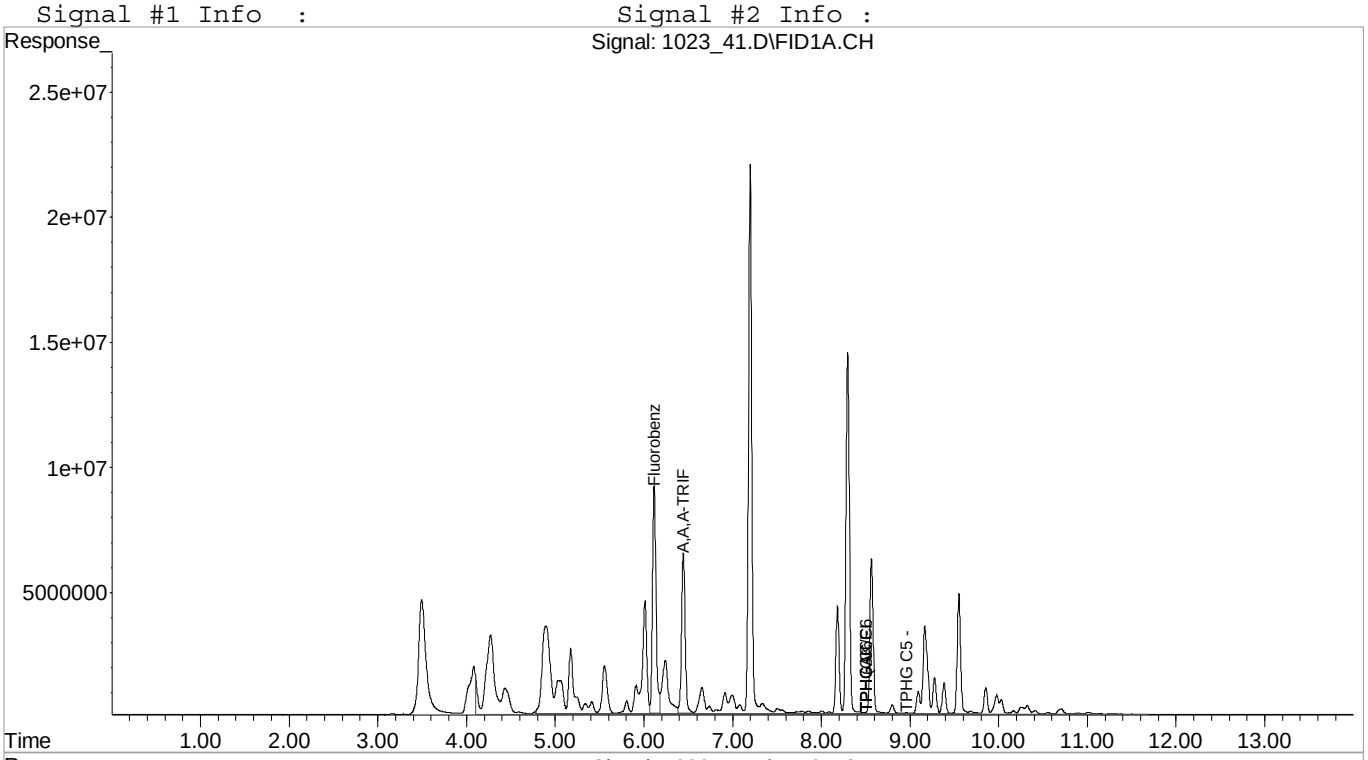
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	248546413	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1028598078	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	181075048	194.0624328	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 97.03%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	538993184	201.4271185	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 100.71%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7707	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	3150839326	15.3589968	ppm
4) H,M TPHG C6 - C12	8.50	2799745112	14.1347587	ppm
5) H,M TPHGAK C6 to C10	8.50	2476025146	15.7395831	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	2635842931	15.3689677	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	339533872	662.5719827	ppb
12) T,M benzene	6.01	473504379	270.1745038	ppb
13) T,M toluene	7.19	2301666102	1495.3452875	ppb
14) T,M ethylbenzene	8.18	477290122	355.7386532	ppb
15) T,M m&p-xylene	8.29	1833893269	1179.2652442	ppb
16) T,M o-xylene	8.56	698365604	515.5817867	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	215638523	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	596740313	NoCal	ppb
19) T,M Naphthalene	11.49	340851	NoCal	ppb

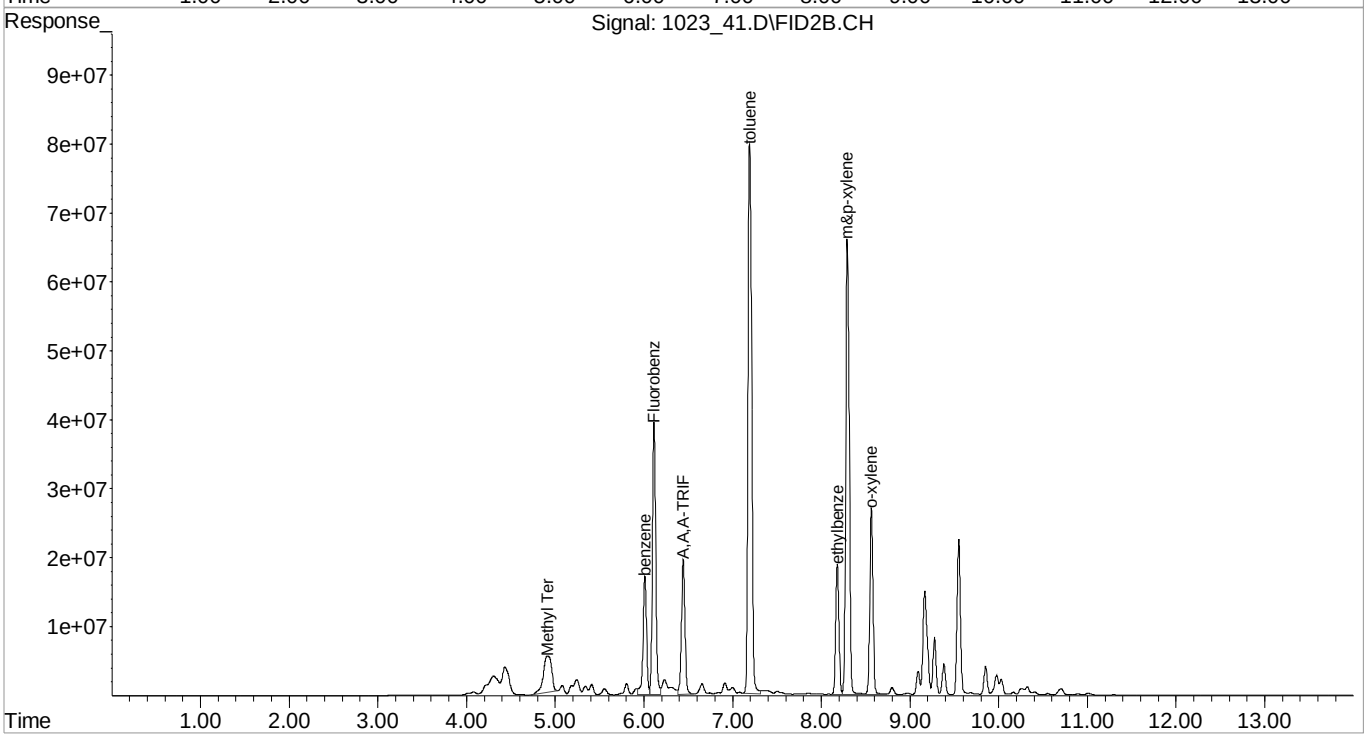
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 41.D\FID1A.CH Vial: 41
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 41.D\FID2B.CH
Acq On : 10-24-2014 02:49:44 AM Operator: 621
Sample : MSDGRO 5x WG750203 L728909-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J20194 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 43.D\FID1A.CH Vial: 43
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 43.D\FID2B.CH
Acq On : 10-24-2014 03:31:15 AM Operator: 621
Sample : BLANK 1x WG750203 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

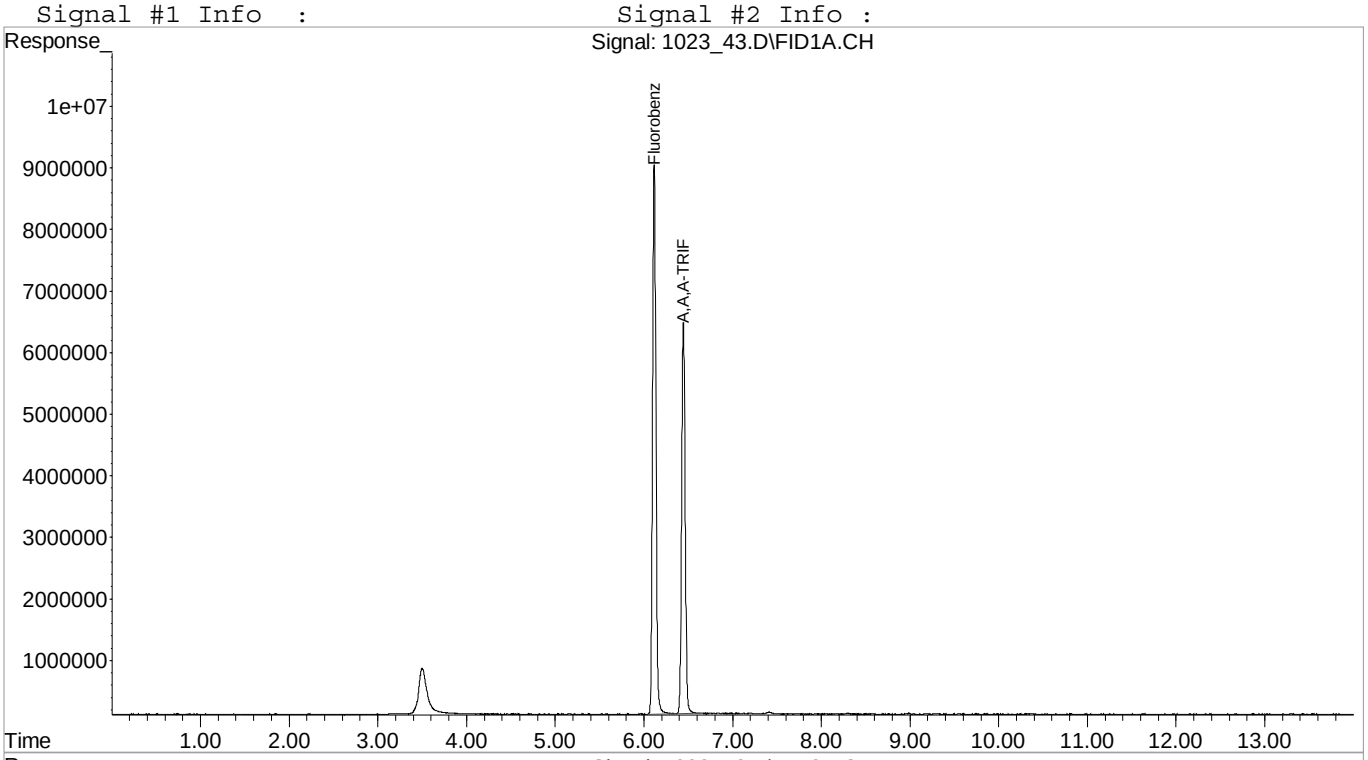
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	231050664	200.0000000	ppb
9) I Fluorobenzene #2	6.11	999378396	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	173598946	200.1383074	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.07%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	522706326	201.0518968	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 100.53%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	5264	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	42293798	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	39043174	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	29826336	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	31157692	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.96	22938	0.0092139	ppb
12) T,M benzene	6.01	315226	0.0370244	ppb
13) T,M toluene	7.20	936416	0.1252315	ppb
14) T,M ethylbenzene	8.18	353231	0.0541943	ppb
15) T,M m&p-xylene	8.30	1699178	0.2249169	ppb
16) T,M o-xylene	8.57	497952	0.0756742	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	611281	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	793789	NoCal	ppb
19) T,M Naphthalene	11.49	17717	NoCal	ppb

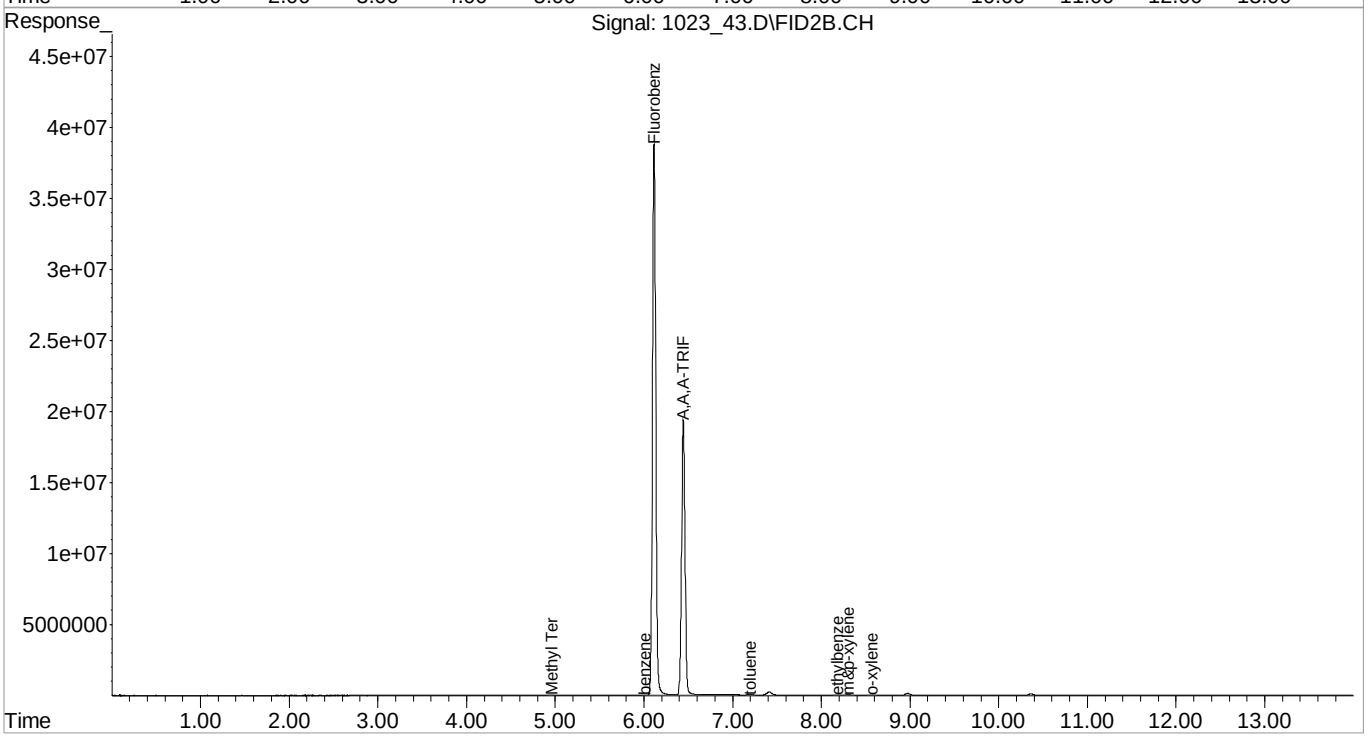
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 43.D\FID1A.CH Vial: 43
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 43.D\FID2B.CH
Acq On : 10-24-2014 03:31:15 AM Operator: 621
Sample : BLANK 1x WG750203 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 51.D\FID1A.CH Vial: 51
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 51.D\FID2B.CH
Acq On : 10-24-2014 06:28:55 AM Operator: 621
Sample : L729026-01 1.16x WG750203 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.16
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:52 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

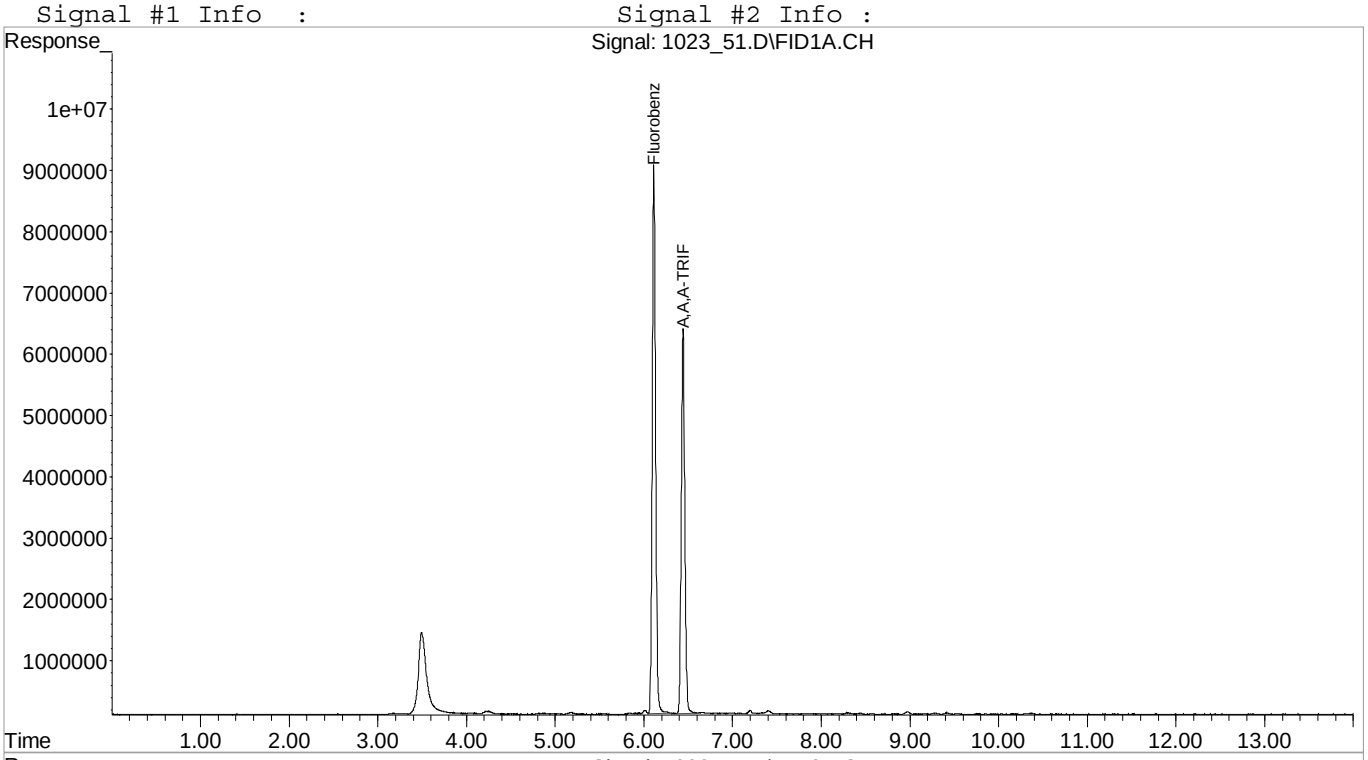
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	231264534	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1012857857	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	171337123	197.3480296	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.67%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	526657527	199.8757790	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 99.94%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7591	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	66265000	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	59298022	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	46855739	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	48521164	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	51573	0.0237115	ppb
12) T,M benzene	6.01	8322268	1.1187865	ppb
13) T,M toluene	7.20	5533934	0.8470682	ppb
14) T,M ethylbenzene	8.18	1248461	0.2192344	ppb
15) T,M m&p-xylene	8.30	3170906	0.4804033	ppb
16) T,M o-xylene	8.57	860505	0.1496763	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	1956356	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	956534	NoCal	ppb
19) T,M Naphthalene	11.50	30221	NoCal	ppb

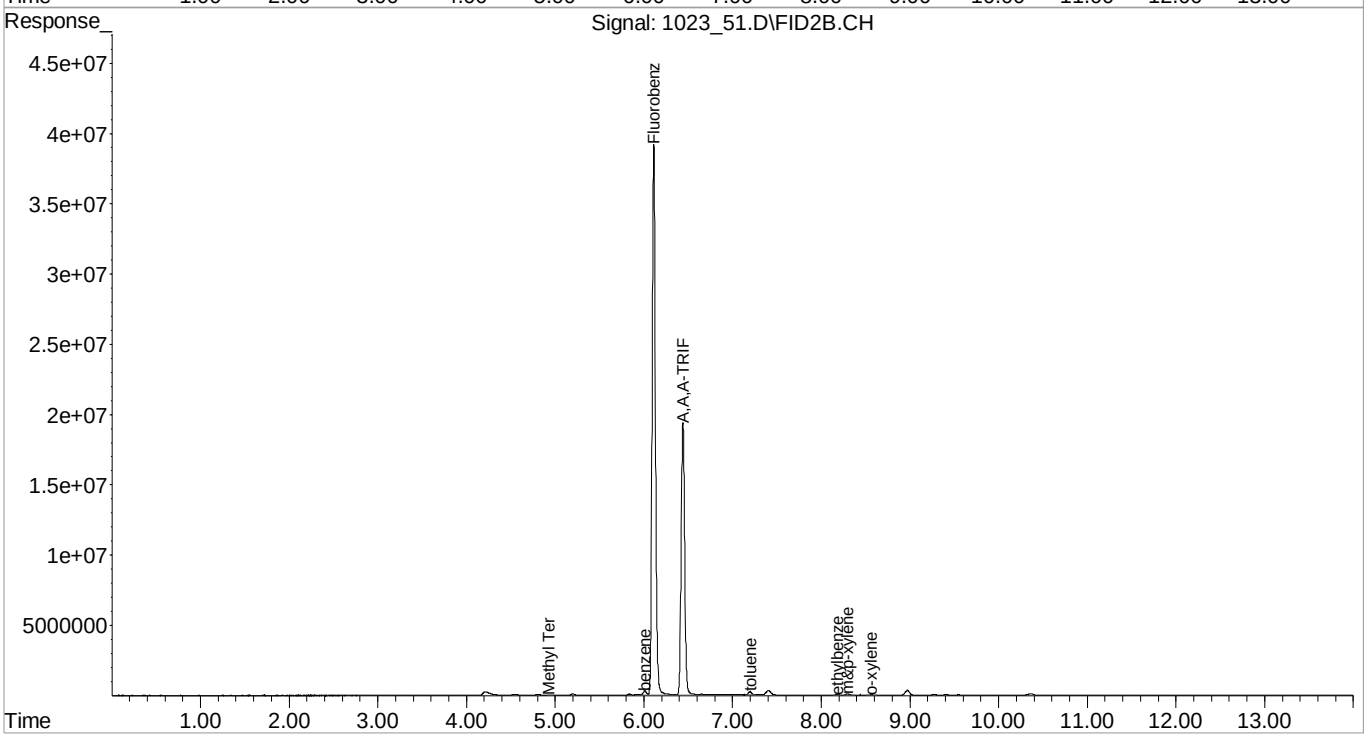
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 51.D\FID1A.CH Vial: 51
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 51.D\FID2B.CH
Acq On : 10-24-2014 06:28:55 AM Operator: 621
Sample : L729026-01 1.16x WG750203 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.16
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 52.D\FID1A.CH Vial: 52
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 52.D\FID2B.CH
Acq On : 10-24-2014 06:49:35 AM Operator: 621
Sample : L729026-02 1x WG750203 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 0.71
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:55 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

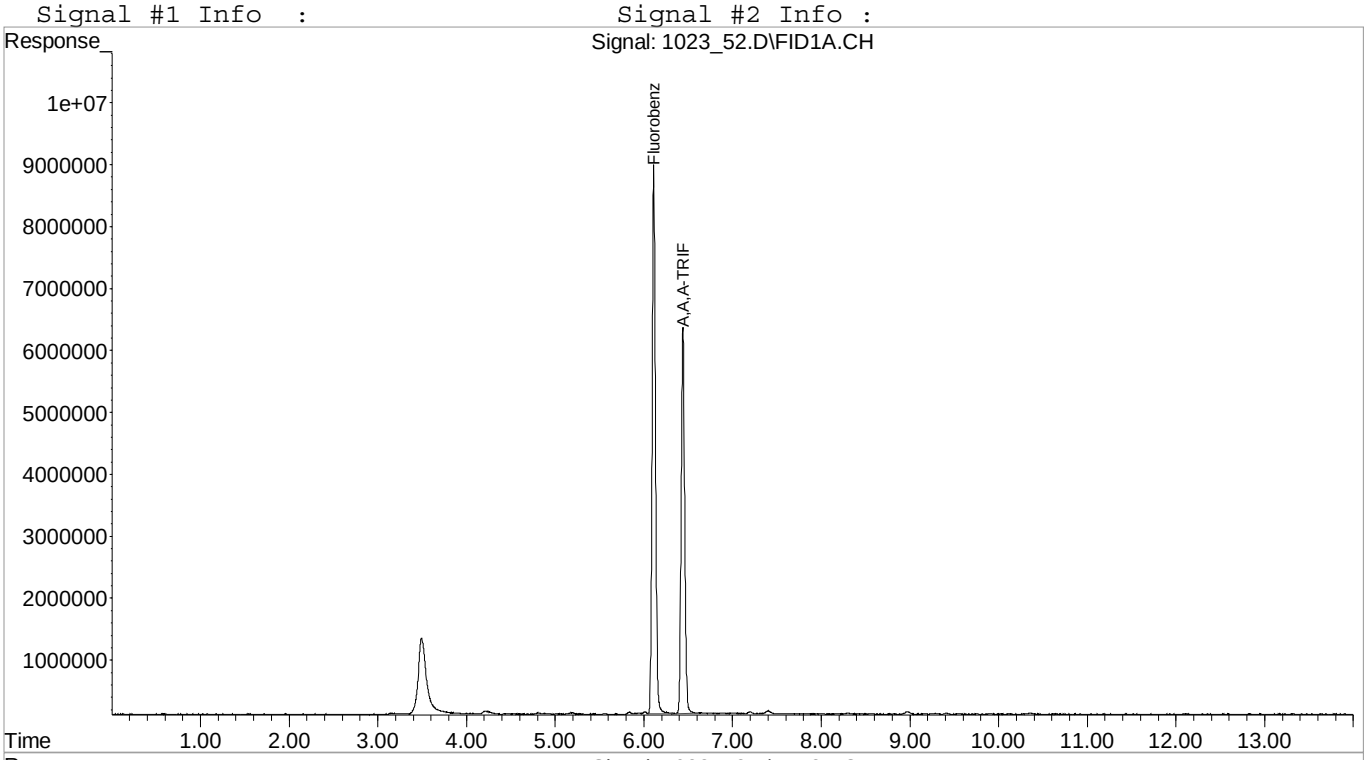
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	229748550	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1005715082	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	169995377	197.0945852	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.55%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	524656803	200.5306314	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 100.27%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	8912	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	54545361	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	48297243	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	36849704	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	39439481	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	147349	0.0417597	ppb
12) T,M benzene	6.01	4633410	0.3839549	ppb
13) T,M toluene	7.19	3267607	0.3083103	ppb
14) T,M ethylbenzene	8.18	816190	0.0883484	ppb
15) T,M m&p-xylene	8.30	2186785	0.2042220	ppb
16) T,M o-xylene	8.56	623254	0.0668250	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	1311599	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	831210	NoCal	ppb
19) T,M Naphthalene	11.48	10302	NoCal	ppb

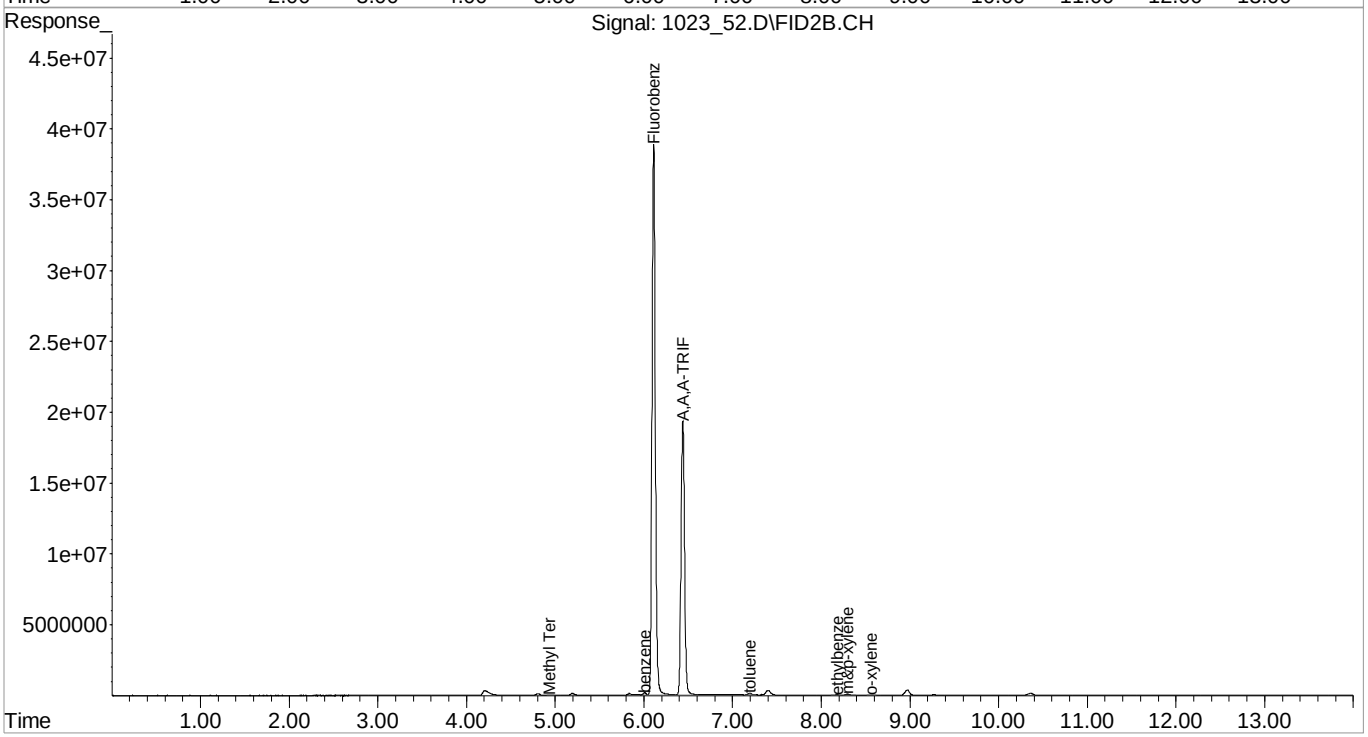
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 52.D\FID1A.CH Vial: 52
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 52.D\FID2B.CH
Acq On : 10-24-2014 06:49:35 AM Operator: 621
Sample : L729026-02 1x WG750203 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 0.71
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 53.D\FID1A.CH Vial: 53
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 53.D\FID2B.CH
Acq On : 10-24-2014 07:10:13 AM Operator: 621
Sample : L729026-03 1x WG750203 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 0.93
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:30:57 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

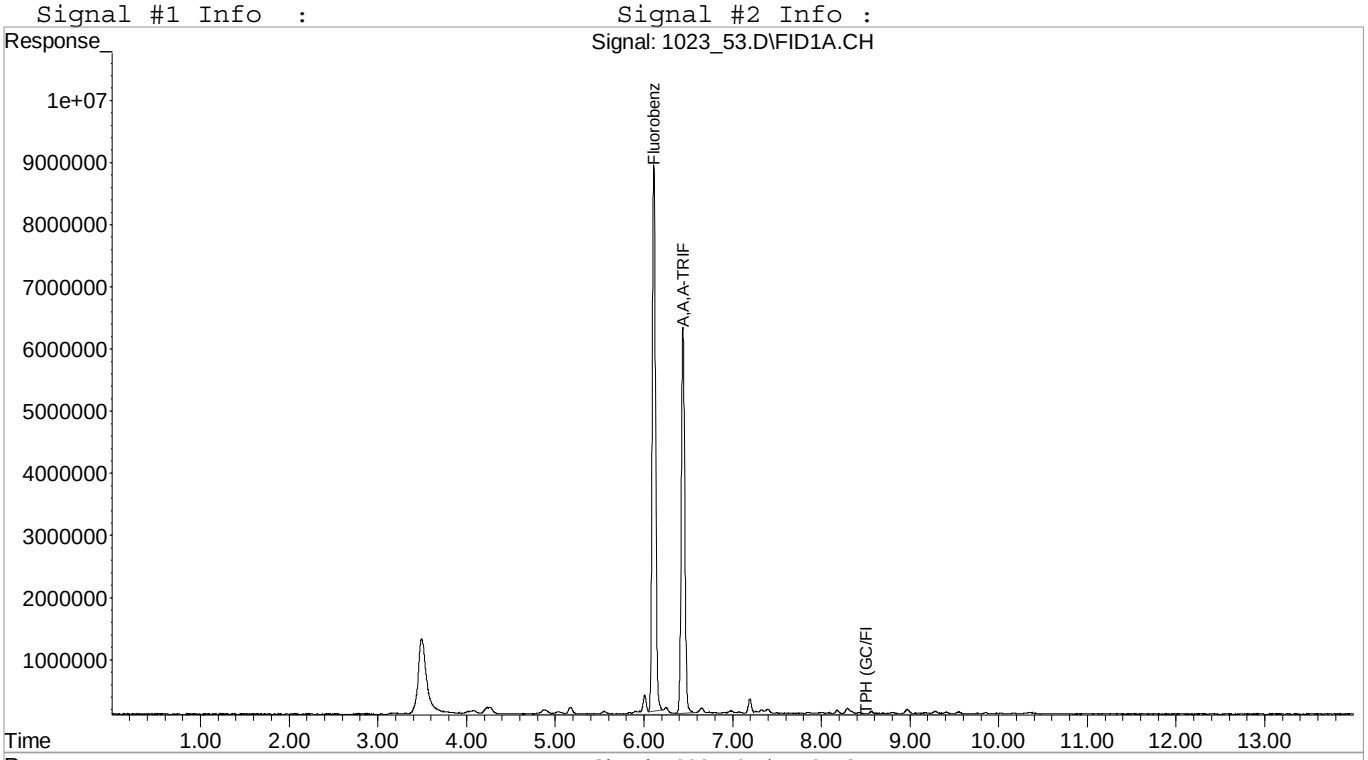
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	224677652	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1009667597	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	168913119	200.2598400	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.13%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	524404096	199.6494105	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 99.82%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	28886	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	125861233	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	109792773	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	84650998	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	92277274	0.0090440	ppm
11) T,M Methyl Tert-Butyl Ether	5.02	-374188	N.D.	ppb
12) T,M benzene	6.01	37320112	4.0350000	ppb
13) T,M toluene	7.19	26065538	3.2088255	ppb
14) T,M ethylbenzene	8.18	5574728	0.7873223	ppb
15) T,M m&p-xylene	8.29	12562545	1.5307184	ppb
16) T,M o-xylene	8.56	3829120	0.5356658	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	3804573	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	3719792	NoCal	ppb
19) T,M Naphthalene	11.49	18120	NoCal	ppb

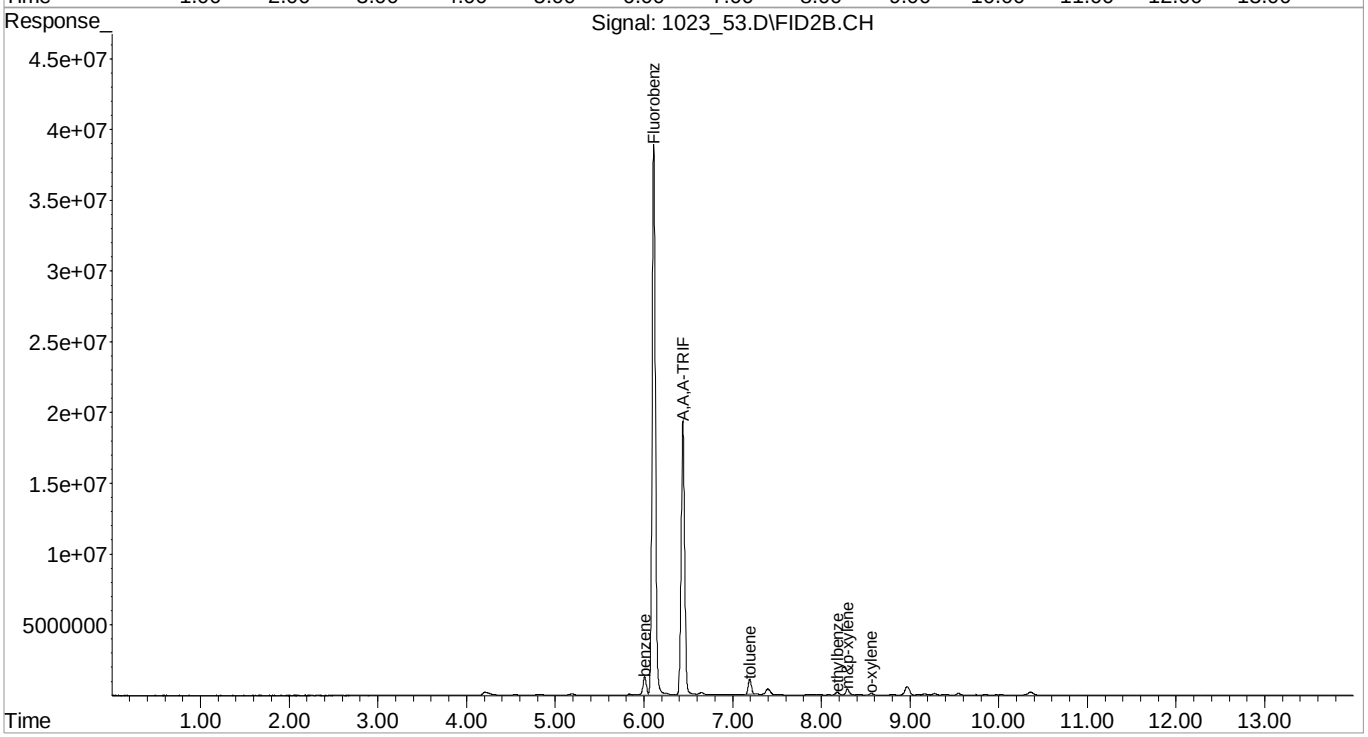
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 53.D\FID1A.CH Vial: 53
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 53.D\FID2B.CH
Acq On : 10-24-2014 07:10:13 AM Operator: 621
Sample : L729026-03 1x WG750203 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 0.93
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 56.D\FID1A.CH Vial: 56
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 56.D\FID2B.CH
Acq On : 10-24-2014 08:12:11 AM Operator: 621
Sample : CCV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 08:31:05 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

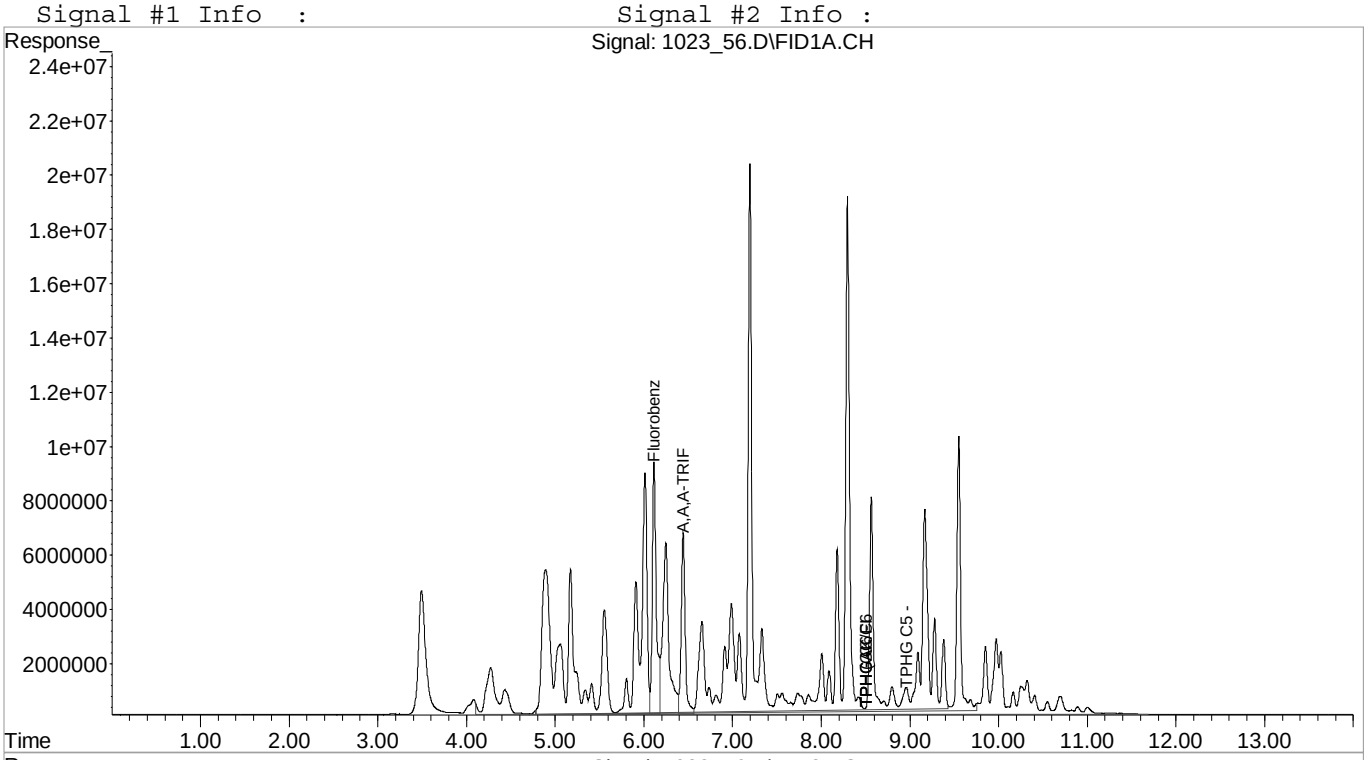
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	288260395	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1085207543	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	206612614	190.9247440	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 95.46%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	590334417	209.1056056	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 104.55%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7724	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6008500420	5.1586222	ppm
4) H,M TPHG C6 - C12	8.50	5803866606	5.1816606	ppm
5) H,M TPHGAK C6 to C10	8.50	4677185148	5.2116675	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5103646557	5.2077995	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	429906840	159.0329873	ppb
12) T,M benzene	6.01	604922359	65.4309009	ppb
13) T,M toluene	7.19	2083751854	256.6303784	ppb
14) T,M ethylbenzene	8.18	672781606	95.0573320	ppb
15) T,M m&p-xylene	8.29	2201666223	268.3810346	ppb
16) T,M o-xylene	8.56	913610347	127.8611587	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	484007870	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1305808419	NoCal	ppb
19) T,M Naphthalene	11.48	1197677	NoCal	ppb

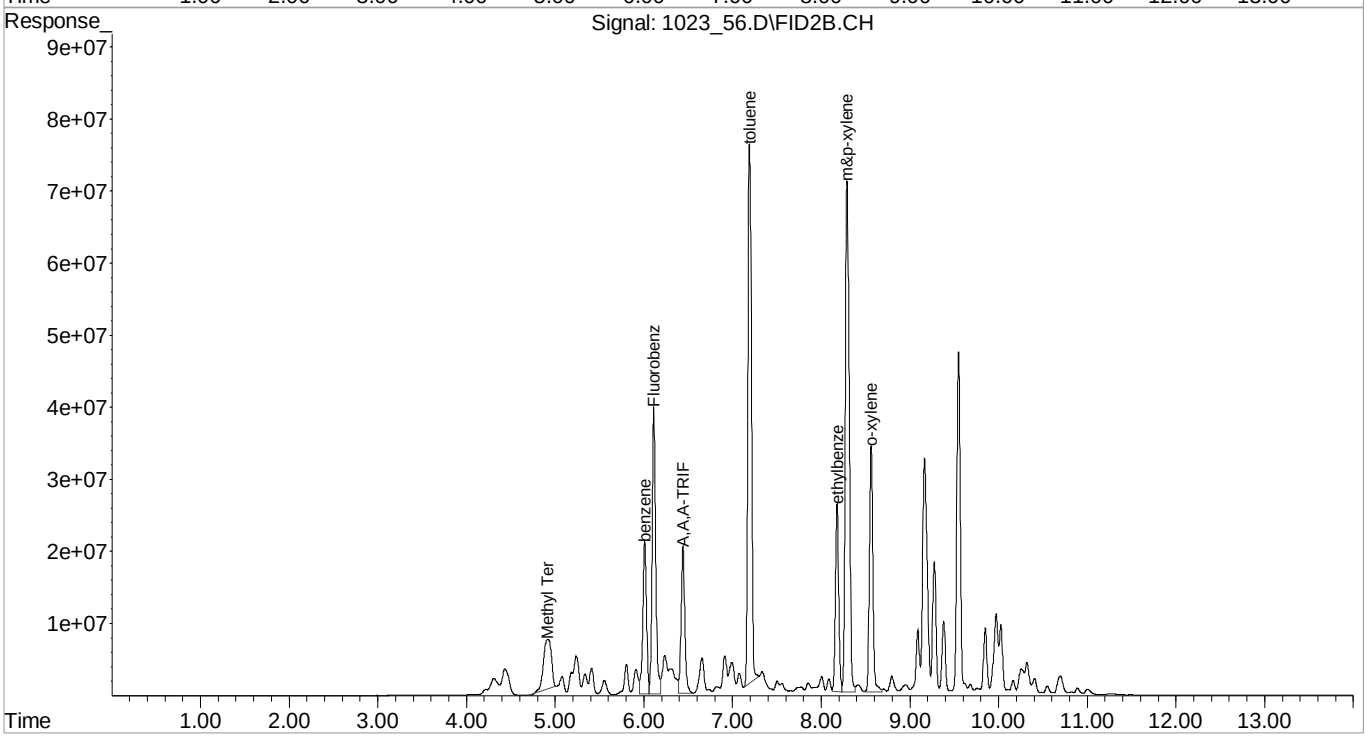
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102314\1023 56.D\FID1A.CH Vial: 56
Signal #2 : C:\MSDCHEM\1\DATA\102314\1023 56.D\FID2B.CH
Acq On : 10-24-2014 08:12:11 AM Operator: 621
Sample : CCV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 24 8:31 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.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 : VOCGC12
Computer Name : VOCCOMPX
Released By : John A. Heath Jr.
Date Released : 10/28/2014 10:32:04 AM
Run ID : 102714
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1027_01	INSTBLK	BG12H21N						1	1	10/27/14 0906	"water SURIS14F10114"
2	1027_02	RT	BG12H21N						1	1	10/27/14 0926	"water SURIS14F10114"
3	1027_03	ICV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/27/14 0947	"water SURIS14F10114"
4	1027_04	LCSGRO	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1017	"water SURIS14F10114/spk14J27633"
5	1027_05	LCSDGRO	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1038	"water SURIS14F10114/spk14J27633"
6	1027_06	MSGRO	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1126	"water SURIS14F10114/spk14J27633"
7	1027_07	MSDGRO	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1146	"water SURIS14F10114/spk14J27633"
8	1027_08	INSTBLK	BG12H21N						1	1	10/27/14 1207	"water SURIS14F10114"
9	1027_09	BLANK	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1228	"water SURIS14F10114"
10	1027_10	L728158-06	BG12H21N	WG750766	GROCA	GW	ERMWCCA	CA	1	1	10/27/14 1330	"water SURIS14F10114"
11	1027_11	L729167-01	BG12H21N	WG750766	GRO	GW	SMITHWCO	CO	1	1	10/27/14 1351	"water SURIS14F10114"
12	1027_12	L729030-03	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 1412	"water SURIS14F10114"
13	1027_13	L729032-03	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 1845	"water SURIS14F10114"
14	1027_14	L728728-10	BG12H21N	WG750766	NWTPHGX	GW	GEOSYNPOR	OR	1	1	10/27/14 1906	"water SURIS14F10114"
15	1027_15	DNR L728738-01	BG12H21N	WG750766					5	5	10/27/14 1927	"water SURIS14F10114"
16	1027_16	DNR L728738-02	BG12H21N	WG750766					10	10	10/27/14 1948	"water SURIS14F10114"
17	1027_17	L728738-03	BG12H21N	WG750766	GROWY	GW	DELTAUT	WY	1	1	10/27/14 2008	"water SURIS14F10114"
18	1027_18	L729034-03	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 2029	"water SURIS14F10114"
19	1027_19	L729034-04	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 2050	"water SURIS14F10114"
20	1027_20	INSTBLK	BG12H21N						1	1	10/27/14 2111	"water SURIS14F10114"
21	1027_21	RT	BG12H21N						1	1	10/27/14 2132	"water SURIS14F10114"
22	1027_22	CCV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/27/14 2152	"water SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : John A. Heath Jr.
Date Released : 10/28/2014 10:32:04 AM
Run ID : 102714
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1027_23	INSTBLK	BG12H21N						1	1	10/27/14 2303	"water SURIS14F10114"
24	1027_24	L729034-07	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 2324	"water SURIS14F10114"
25	1027_25	L729034-06	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 2345	"water SURIS14F10114"
26	1027_26	DNR L729103-03	BG12H21N	WG750766					20	20	10/28/14 0005	"water SURIS14F10114"
27	1027_27	L729203-01	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0026	"water SURIS14F10114"
28	1027_28	L729205-01	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0047	"water SURIS14F10114"
29	1027_29	L729205-02	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0108	"water SURIS14F10114"
30	1027_30	L729205-03	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0128	"water SURIS14F10114"
31	1027_31	L729205-04	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0149	"water SURIS14F10114"
32	1027_32	L729205-05	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0210	"water SURIS14F10114"
33	1027_33	L729205-06	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0231	"water SURIS14F10114"
34	1027_36	ICV	BG12H21N						1	1	10/28/14 0333	"soil SURIS14F10114"
35	1027_37	LCS	BG12H21N						1	1	10/28/14 0828	"soil SURIS14F10114"
36	1027_38	LCSD	BG12H21N						1	1	10/28/14 0850	"soil SURIS14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 03.D\FID2B.CH
Acq On : 10-27-2014 09:47:44 AM Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 27 13:53:51 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

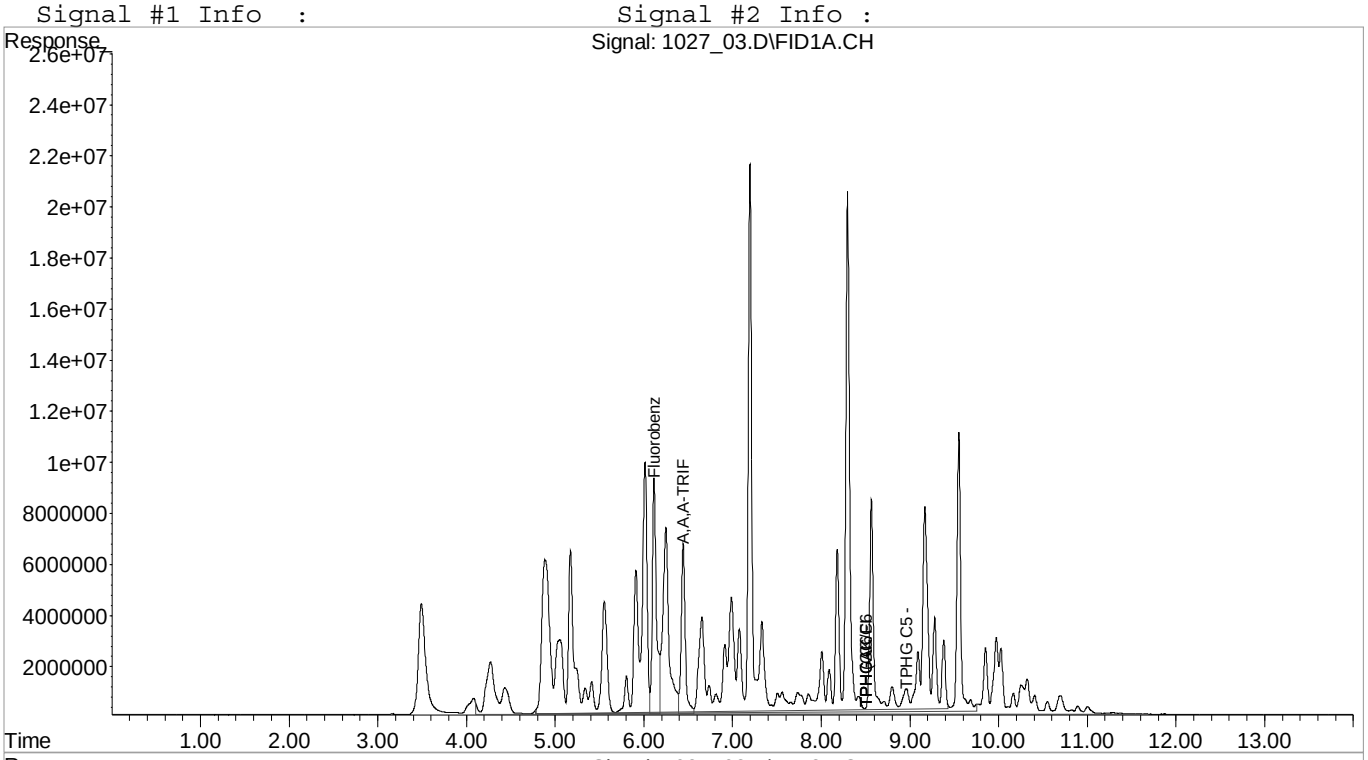
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	292118672	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1085712262	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	209756579	191.2699017	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 95.63%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	593762674	210.2221753	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 105.11%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	54150	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6589661814	5.5966271	ppm
4) H,M TPHG C6 - C12	8.50	6341893375	5.6000247	ppm
5) H,M TPHGAK C6 to C10	8.50	5140565559	5.6637130	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5616446240	5.6651422	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	450489962	166.5697145	ppb
12) T,M benzene	6.01	654735759	70.7860021	ppb
13) T,M toluene	7.19	2137510879	263.1288453	ppb
14) T,M ethylbenzene	8.18	715101812	100.9897857	ppb
15) T,M m&p-xylene	8.29	2310213778	281.4819647	ppb
16) T,M o-xylene	8.56	962947411	134.7033067	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	521334300	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1402573160	NoCal	ppb
19) T,M Naphthalene	11.49	1365118	NoCal	ppb

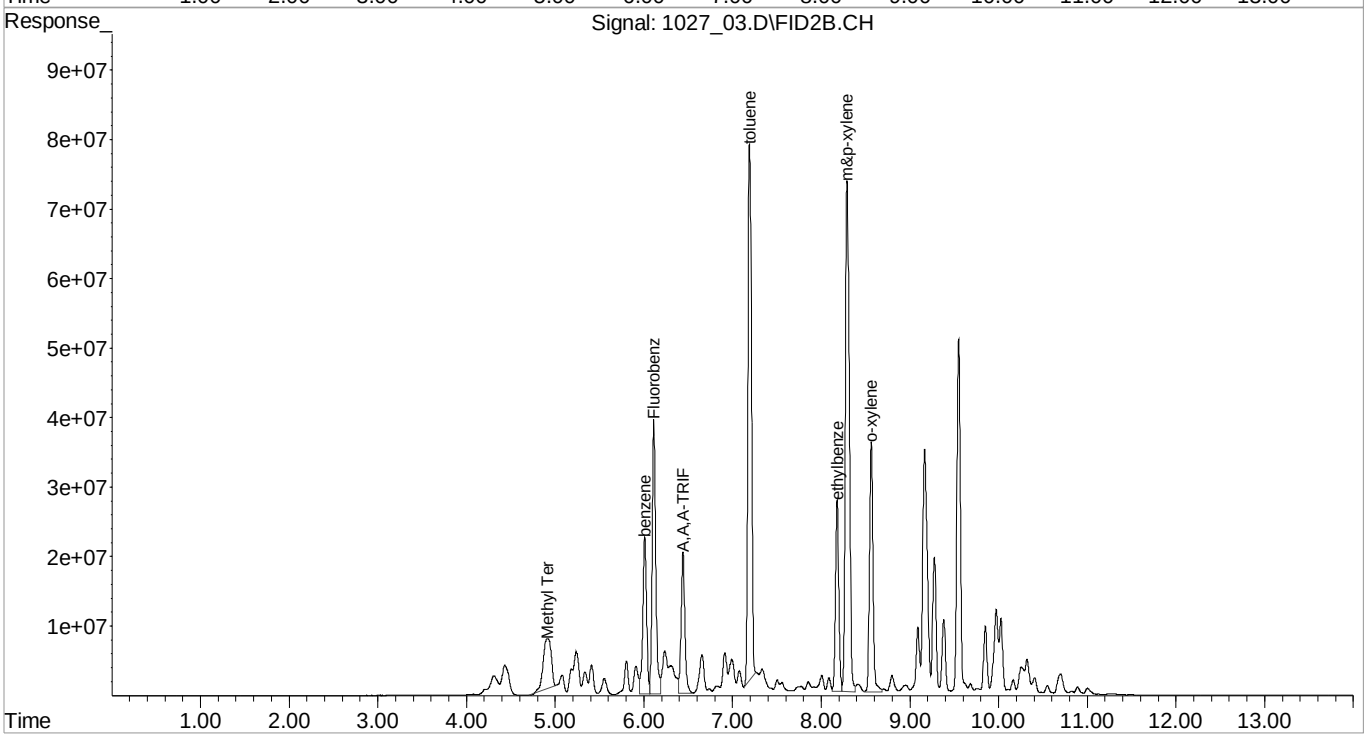
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 03.D\FID2B.CH
Acq On : 10-27-2014 09:47:44 AM Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 27 13:53 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 22.D\FID1A.CH Vial: 22
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 22.D\FID2B.CH
Acq On : 10-27-2014 09:52:53 PM Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 10:22:02 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

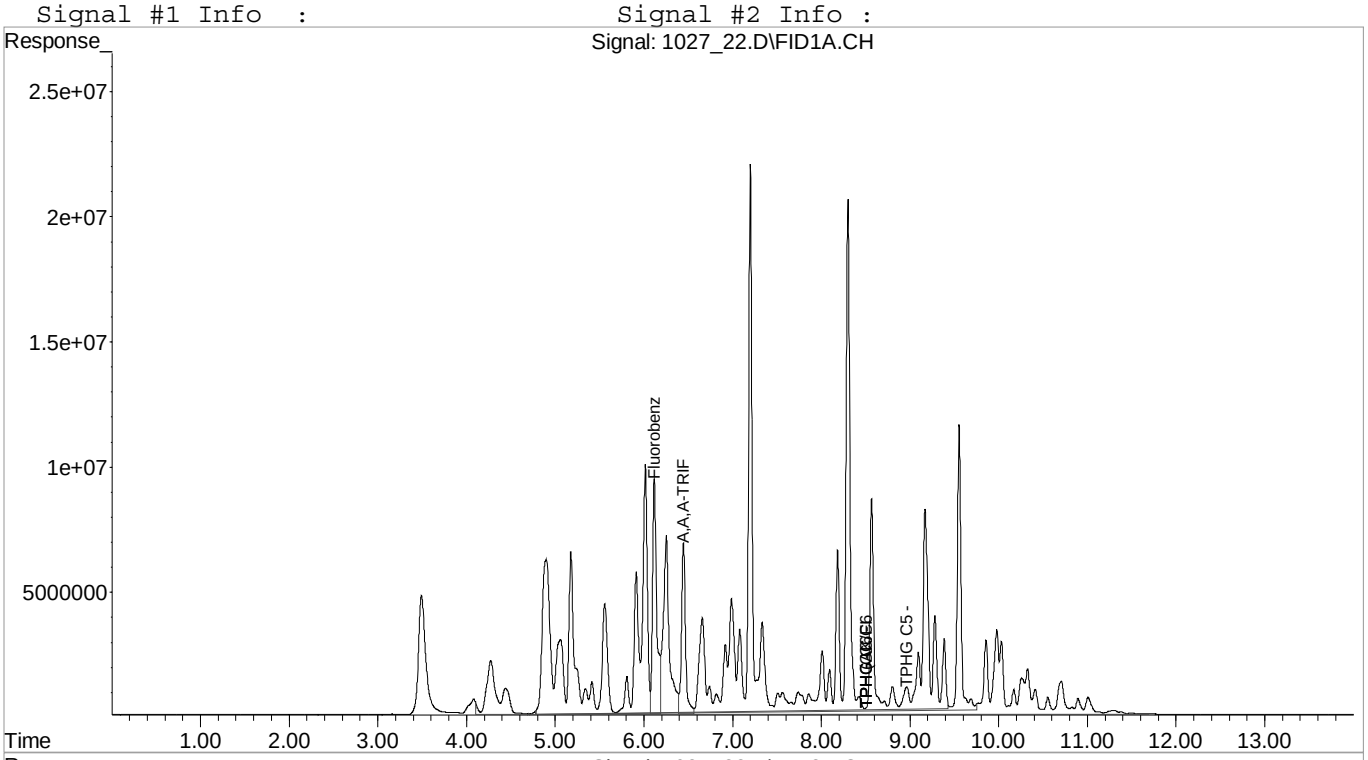
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	298479725	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1075963932	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	211149183	188.4364574	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 94.22%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	589394435	210.5662161	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 105.28%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	199190	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6835666406	5.6843840	ppm
4) H,M TPHG C6 - C12	8.50	6590625448	5.6984267	ppm
5) H,M TPHGAK C6 to C10	8.50	5206518405	5.6129499	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5612564448	5.5380770	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	462776872	172.6631259	ppb
12) T,M benzene	6.01	649776579	70.8863160	ppb
13) T,M toluene	7.19	2117336084	263.0067861	ppb
14) T,M ethylbenzene	8.18	704576778	100.4049043	ppb
15) T,M m&p-xylene	8.29	2275524169	279.7672578	ppb
16) T,M o-xylene	8.57	954193020	134.6880148	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	522633799	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1430774797	NoCal	ppb
19) T,M Naphthalene	11.49	6158941	NoCal	ppb

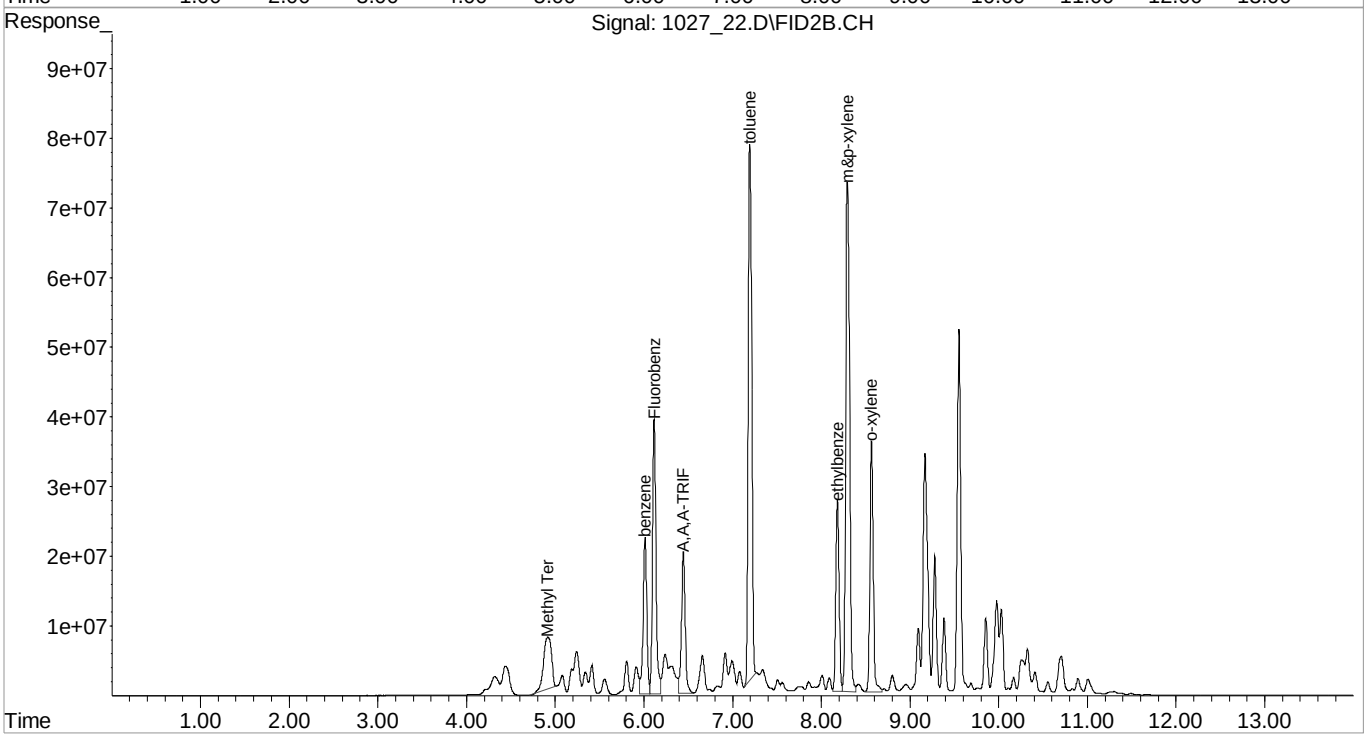
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 22.D\FID1A.CH Vial: 22
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 22.D\FID2B.CH
Acq On : 10-27-2014 09:52:53 PM Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 10:22 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.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 : VOCGC12
Computer Name : VOCCOMPX
Released By : Ben Baker
Date Released : 10/28/2014 8:31:02 PM
Run ID : 102714
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1027_01	INSTBLK	BG12H21N						1	1	10/27/14 0906	"water SURIS14F10114"
2	1027_02	RT	BG12H21N						1	1	10/27/14 0926	"water SURIS14F10114"
3	1027_03	ICV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/27/14 0947	"water SURIS14F10114"
4	1027_04	LCSGRO	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1017	"water SURIS14F10114/spk14J27633"
5	1027_05	LCSDGRO	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1038	"water SURIS14F10114/spk14J27633"
6	1027_06	MSGRO	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1126	"water SURIS14F10114/spk14J27633"
7	1027_07	MSDGRO	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1146	"water SURIS14F10114/spk14J27633"
8	1027_08	INSTBLK	BG12H21N						1	1	10/27/14 1207	"water SURIS14F10114"
9	1027_09	BLANK	BG12H21N	WG750766	GRO	GW			1	1	10/27/14 1228	"water SURIS14F10114"
10	1027_10	L728158-06	BG12H21N	WG750766	GROCA	GW	ERMWCCA	CA	1	1	10/27/14 1330	"water SURIS14F10114"
11	1027_11	L729167-01	BG12H21N	WG750766	GRO	GW	SMITHWCO	CO	1	1	10/27/14 1351	"water SURIS14F10114"
12	1027_12	L729030-03	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 1412	"water SURIS14F10114"
13	1027_13	L729032-03	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 1845	"water SURIS14F10114"
14	1027_14	L728728-10	BG12H21N	WG750766	NWTPHGX	GW	GEOSYNPOR	OR	1	1	10/27/14 1906	"water SURIS14F10114"
15	1027_15	DNR L728738-01	BG12H21N	WG750766					5	5	10/27/14 1927	"water SURIS14F10114"
16	1027_16	DNR L728738-02	BG12H21N	WG750766					10	10	10/27/14 1948	"water SURIS14F10114"
17	1027_17	L728738-03	BG12H21N	WG750766	GROWY	GW	DELTAUT	WY	1	1	10/27/14 2008	"water SURIS14F10114"
18	1027_18	L729034-03	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 2029	"water SURIS14F10114"
19	1027_19	L729034-04	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 2050	"water SURIS14F10114"
20	1027_20	INSTBLK	BG12H21N						1	1	10/27/14 2111	"water SURIS14F10114"
21	1027_21	RT	BG12H21N						1	1	10/27/14 2132	"water SURIS14F10114"
22	1027_22	CCV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/27/14 2152	"water SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : Ben Baker
Date Released : 10/28/2014 8:31:02 PM
Run ID : 102714
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1027_23	INSTBLK	BG12H21N						1	1	10/27/14 2303	"water SURIS14F10114"
24	1027_24	L729034-07	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 2324	"water SURIS14F10114"
25	1027_25	L729034-06	BG12H21N	WG750766	GRO	GW	URSTAZ	NM	1	1	10/27/14 2345	"water SURIS14F10114"
26	1027_26	DNR L729103-03	BG12H21N	WG750766					20	20	10/28/14 0005	"water SURIS14F10114"
27	1027_27	L729203-01	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0026	"water SURIS14F10114"
28	1027_28	L729205-01	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0047	"water SURIS14F10114"
29	1027_29	L729205-02	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0108	"water SURIS14F10114"
30	1027_30	L729205-03	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0128	"water SURIS14F10114"
31	1027_31	L729205-04	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0149	"water SURIS14F10114"
32	1027_32	L729205-05	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0210	"water SURIS14F10114"
33	1027_33	L729205-06	BG12H21N	WG750766	GRO	GW	OXYGJCO	CO	1	1	10/28/14 0231	"water SURIS14F10114"
34	1027_34	INSTBLK	BG12H21N						1	1	10/28/14 0251	"soil SURIS14F10114"
35	1027_35	RT	BG12H21N						1	1	10/28/14 0312	"soil SURIS14F10114"
36	1027_36	ICV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/28/14 0333	"soil SURIS14F10114"
37	1027_37	LCSGRO	BG12H21N	WG750790	GRO	SS			1	1	10/28/14 0828	"soil SURIS14F10114/SPK14J27633"
38	1027_38	LCSDGRO	BG12H21N	WG750790	GRO	SS			1	1	10/28/14 0850	"soil SURIS14F10114/SPK14J27633"
39	1027_39	MSGRO	BG12H21N	WG750790	GRO	SS			5	5	10/28/14 0935	"soil SURIS14F10114/SPK14J27633"
40	1027_40	MSDGRO	BG12H21N	WG750790	GRO	SS			5	5	10/28/14 0956	"soil SURIS14F10114/SPK14J27633"
41	1027_41	INSTBLK	BG12H21N						1	1	10/28/14 1017	"soil SURIS14F10114"
42	1027_42	BLANK	BG12H21N	WG750790	GRO	SS			1	1	10/28/14 1037	"soil SURIS14F10114"
43	1027_43	L729396-01	BG12H21N	WG750790	GRO	SS	FCEENBMS	MS	5	5	10/28/14 1124	"soil SURIS14F10114"
44	1027_44	L729178-01	BG12H21N	WG750790	GRO	SS	OXYGJCO	CO	1000	1000	10/28/14 1145	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : Ben Baker
Date Released : 10/28/2014 8:31:02 PM
Run ID : 102714
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
45	1027_45	L729396-02	BG12H21N	WG750790	GRO	SS	FCEENBMS	MS	25	25	10/28/14 1205	"soil SURIS14F10114"
46	1027_46	L727967-03	BG12H21N	WG750790	GROOH	SS	ATCCOH	OH	25	25	10/28/14 1226	"soil SURIS14F10114"
47	1027_47	L729026-06	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	1	0.98	10/28/14 1247	"soil SURIS14F10114"
48	1027_48	L729030-01	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	1	0.83	10/28/14 1308	"soil SURIS14F10114"
49	1027_49	L729030-02	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	158	158	10/28/14 1328	"soil SURIS14F10114"
50	1027_50	L729030-04	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	1	0.88	10/28/14 1349	"soil SURIS14F10114"
51	1027_51	L729030-05	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	1	0.95	10/28/14 1410	"soil SURIS14F10114"
52	1027_52	L729032-01	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	1	0.9	10/28/14 1430	"soil SURIS14F10114"
53	1027_53	INSTBLK	BG12H21N						1	1	10/28/14 1451	"soil SURIS14F10114"
54	1027_54	RT	BG12H21N						1	1	10/28/14 1512	"soil SURIS14F10114"
55	1027_55	CCV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/28/14 1532	"soil SURIS14F10114"
56	1027_56	INSTBLK	BG12H21N						1	1	10/28/14 1606	"soil SURIS14F10114"
57	1027_57	DNR L729032-02	BG12H21N	WG750790					82	82	10/28/14 1627	"soil SURIS14F10114"
58	1027_58	L729032-04	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	1	0.76	10/28/14 1648	"soil SURIS14F10114"
59	1027_59	DNR L729032-05	BG12H21N	WG750790					18.75	18.75	10/28/14 1709	"soil SURIS14F10114"
60	1027_60	L729032-06	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	1	0.9	10/28/14 1729	"soil SURIS14F10114"
61	1027_61	L729032-07	BG12H21N	WG750790	GRO	SS	URSTAZ	NM	1	0.95	10/28/14 1750	"soil SURIS14F10114"
62	1027_62	L729111-01	BG12H21N	WG750790	GROOH	SS	PSICOH	OH	250	250	10/28/14 1810	"soil SURIS14F10114"
63	1027_63	L729111-02	BG12H21N	WG750790	GROOH	SS	PSICOH	OH	250	250	10/28/14 1831	"soil SURIS14F10114"
64	1027_64	L729111-03	BG12H21N	WG750790	GROOH	SS	PSICOH	OH	250	250	10/28/14 1916	"soil SURIS14F10114"
65	1027_65	L729111-04	BG12H21N	WG750790	GROOH	SS	PSICOH	OH	250	250	10/28/14 1937	"soil SURIS14F10114"
66	1027_66	L729111-05	BG12H21N	WG750790	GROOH	SS	PSICOH	OH	25	25	10/28/14 1958	"soil SURIS14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 36.D\FID1A.CH Vial: 36
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 36.D\FID2B.CH
Acq On : 10-28-2014 03:33:21 AM Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:21:32 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.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	6.12	299002936	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1079602398	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	213990912	190.6383355	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 95.32%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	589452024	209.8770729	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 104.94%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	216838	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	7048328895	5.8558805	ppm
4) H,M TPHG C6 - C12	8.50	6796151356	5.8706522	ppm
5) H,M TPHGAK C6 to C10	8.50	5335486678	5.7450096	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5756393980	5.6727687	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	476354717	177.1300703	ppb
12) T,M benzene	6.01	658290869	71.5731378	ppb
13) T,M toluene	7.19	2138551235	264.7467808	ppb
14) T,M ethylbenzene	8.18	725480481	103.0353396	ppb
15) T,M m&p-xylene	8.29	2304347104	282.3561189	ppb
16) T,M o-xylene	8.57	986861969	138.8298972	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	544860409	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1497481326	NoCal	ppb
19) T,M Naphthalene	11.49	6712184	NoCal	ppb

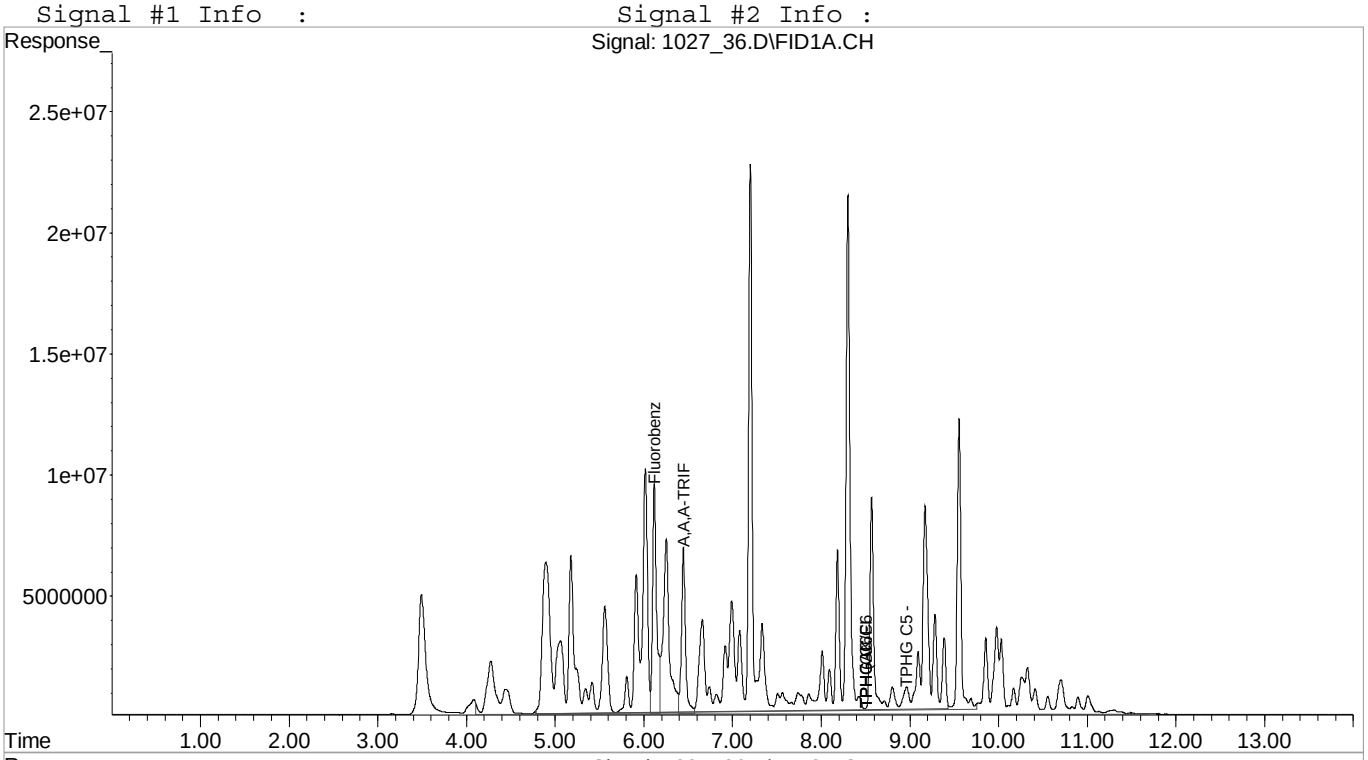
(f)=RT Delta > 1/2 Window (m)=manual int.

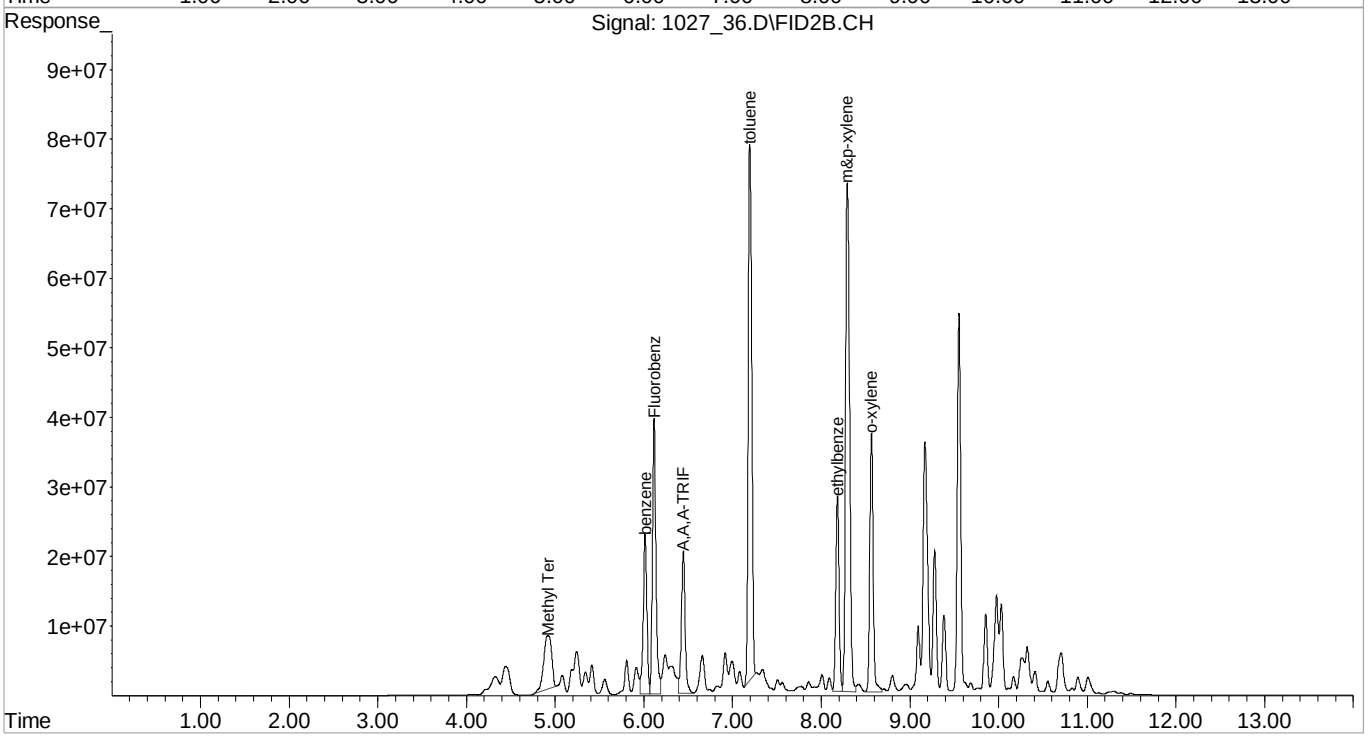
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 36.D\FID1A.CH Vial: 36
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 36.D\FID2B.CH
Acq On : 10-28-2014 03:33:21 AM Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:21 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 37.D\FID1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 37.D\FID2B.CH
Acq On : 10-28-2014 08:28:22 AM Operator: 621
Sample : LCSGRO 1x WG750790 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:21:52 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.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	6.10	246704779	200.0000000	ppb
9) I Fluorobenzene #2	6.10	1024104550	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.43	184992907	199.7413017	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 99.87%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.43	561648144	210.8144656	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 105.41%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	93647	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5931374946	5.9758796	ppm
4) H,M TPHG C6 - C12	8.50	5322593477	5.5641208	ppm
5) H,M TPHGAK C6 to C10	8.50	4474504276	5.8414893	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4858006780	5.8049021	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	437501356	171.4986765	ppb
12) T,M benzene	6.00	702593871	80.5297087	ppb
13) T,M toluene	7.18	2686957371	350.6641348	ppb
14) T,M ethylbenzene	8.17	739846928	110.7699332	ppb
15) T,M m&p-xylene	8.28	2364731392	305.4574119	ppb
16) T,M o-xylene	8.55	1081827765	160.4368983	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	421067588	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.54	1163719087	NoCal	ppb
19) T,M Naphthalene	11.48	3086598	NoCal	ppb

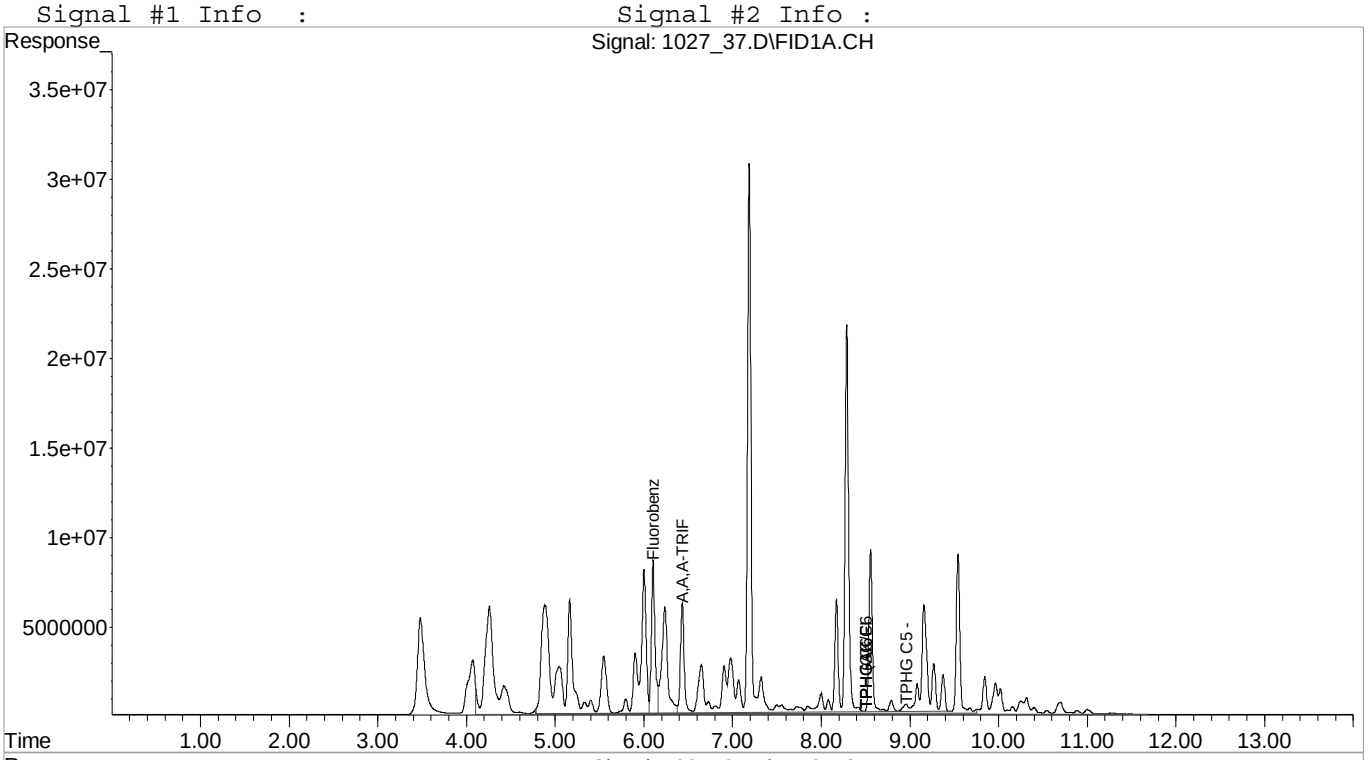
(f)=RT Delta > 1/2 Window (m)=manual int.

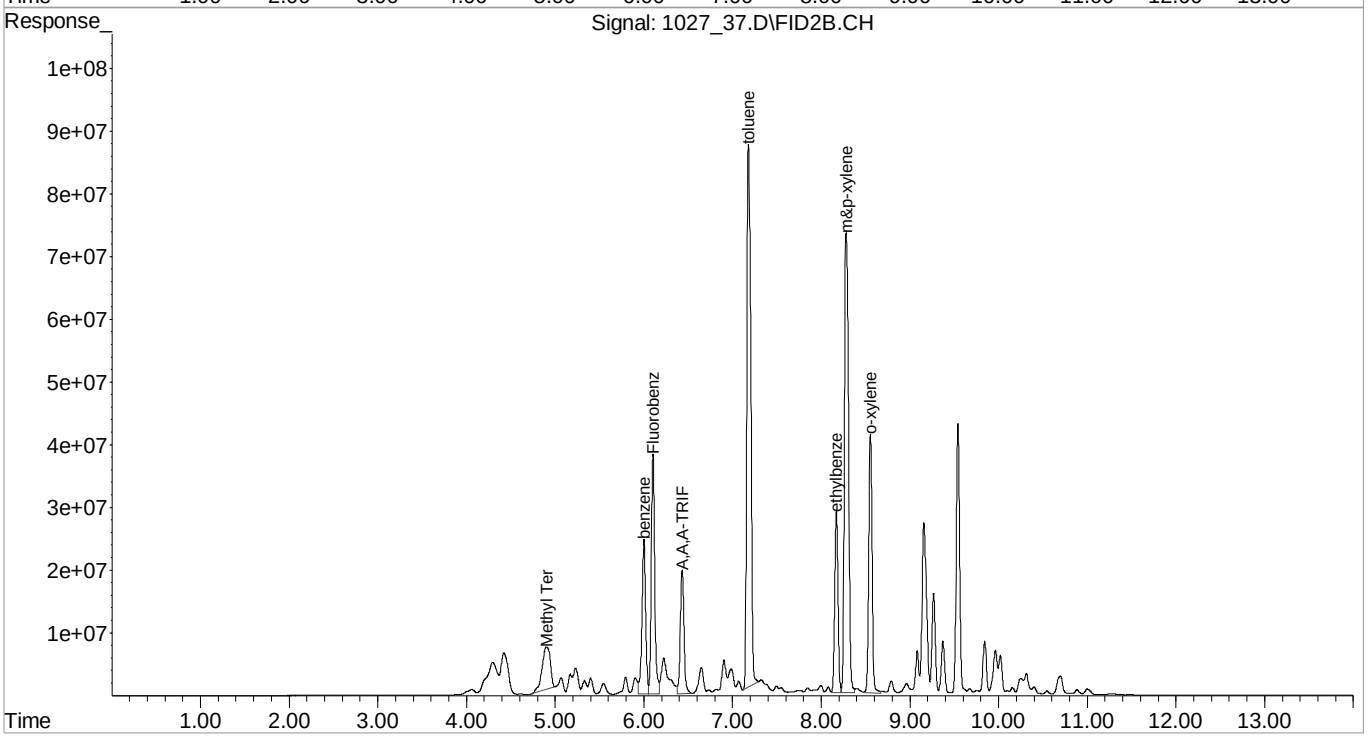
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 37.D\FID1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 37.D\FID2B.CH
Acq On : 10-28-2014 08:28:22 AM Operator: 621
Sample : LCSGRO 1x WG750790 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:21 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 38.D\FID1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 38.D\FID2B.CH
Acq On : 10-28-2014 08:50:13 AM Operator: 621
Sample : LCSDGRO 1x WG750790 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:22:07 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

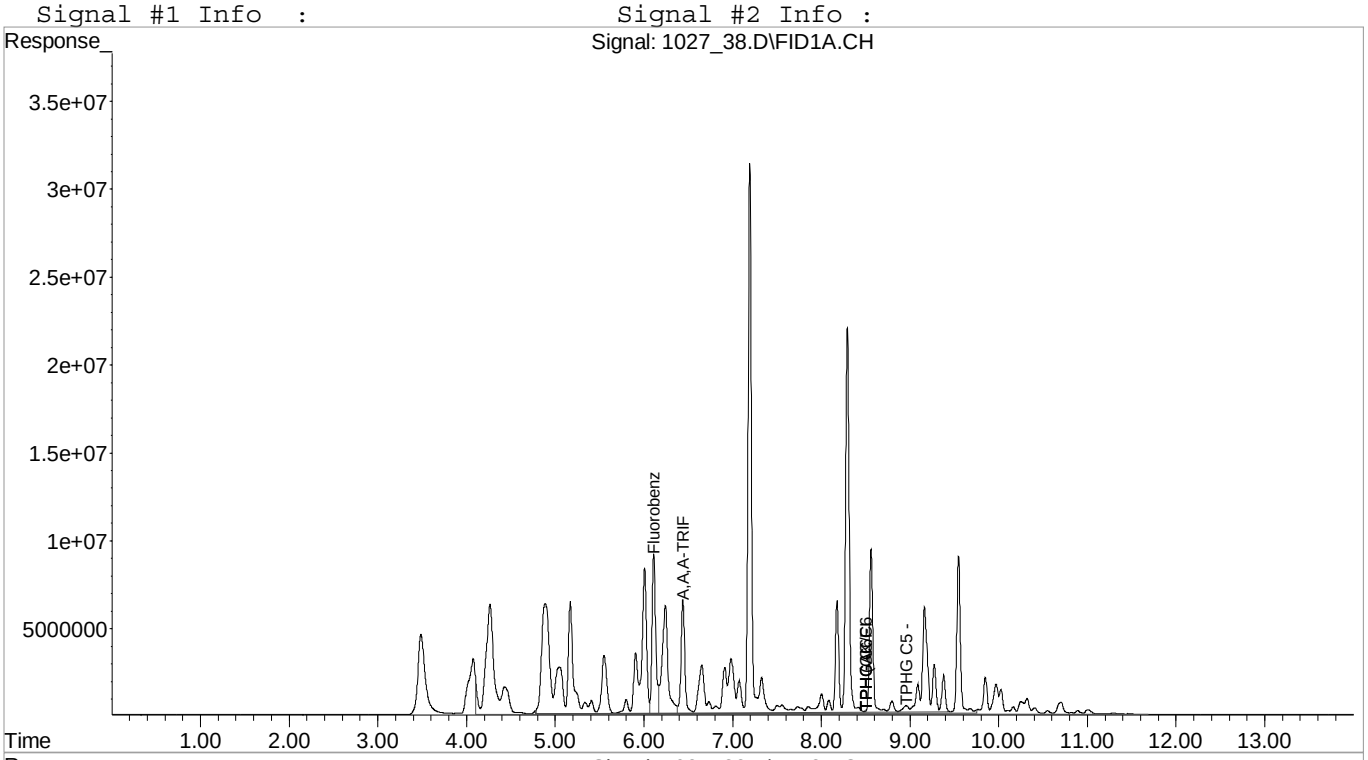
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	260365215	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1086273922	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	193732170	198.2025067	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 99.10%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	653391236	231.2141064	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 115.61%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	110642	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5984153730	5.7053574	ppm
4) H,M TPHG C6 - C12	8.50	5380123164	5.3222707	ppm
5) H,M TPHGAK C6 to C10	8.50	4541264551	5.6124374	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4918881554	5.5646470	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	438701735	162.1271186	ppb
12) T,M benzene	6.01	717569276	77.5390631	ppb
13) T,M toluene	7.18	2669056448	328.3925335	ppb
14) T,M ethylbenzene	8.18	723953883	102.1870504	ppb
15) T,M m&p-xylene	8.28	2333919157	284.2232506	ppb
16) T,M o-xylene	8.56	1062985068	148.6203365	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	404660508	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1131186877	NoCal	ppb
19) T,M Naphthalene	11.48	3313630	NoCal	ppb

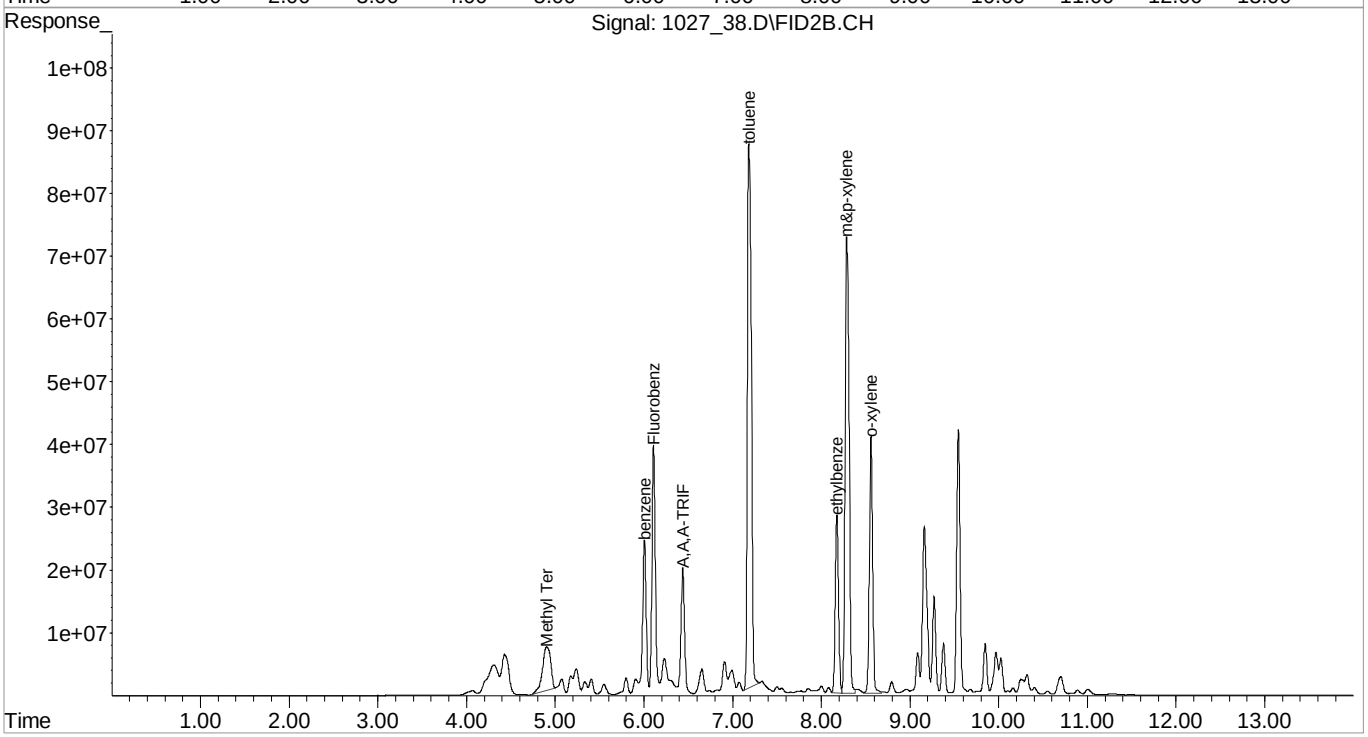
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 38.D\FID1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 38.D\FID2B.CH
Acq On : 10-28-2014 08:50:13 AM Operator: 621
Sample : LCSDGRO 1x WG750790 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:22 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 39.D\FID1A.CH Vial: 39
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 39.D\FID2B.CH
Acq On : 10-28-2014 09:35:40 AM Operator: 621
Sample : MSGRO 5x WG750790 L729396-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:22:30 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

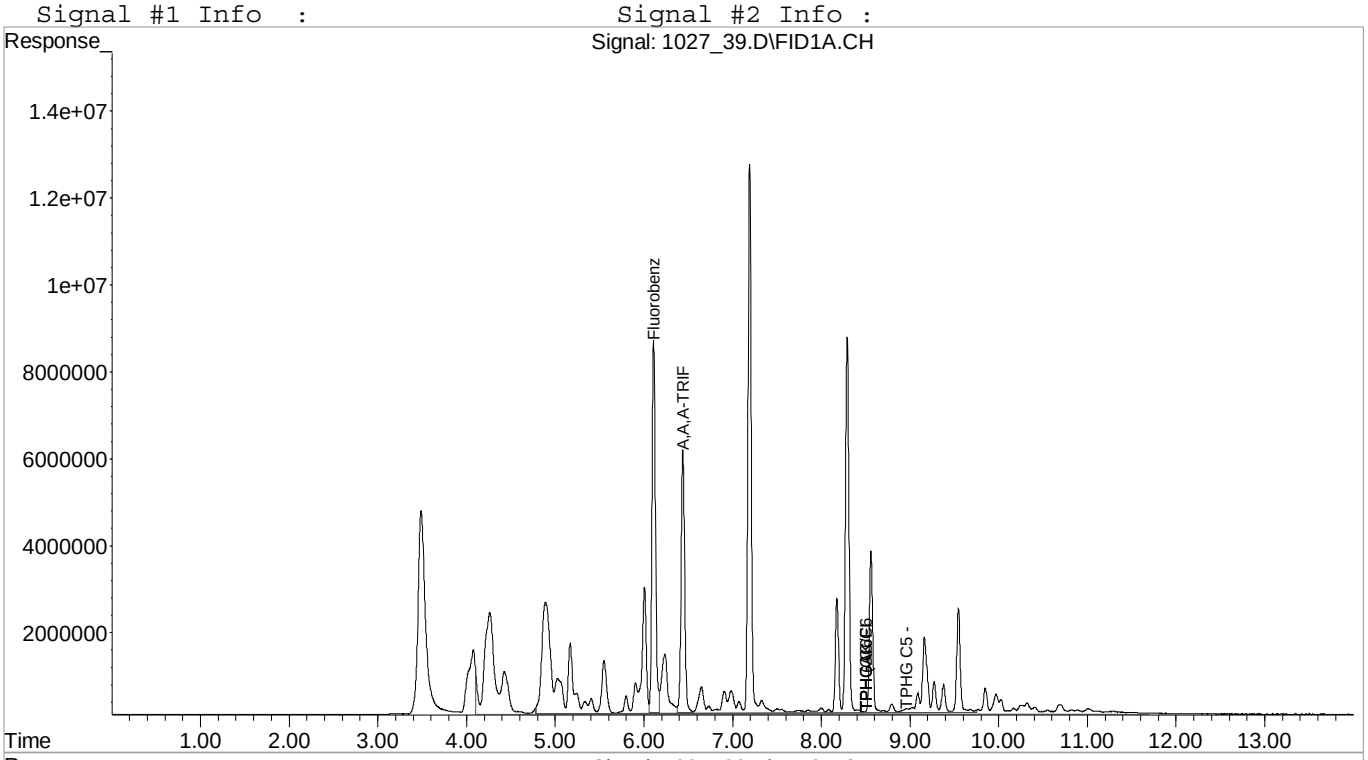
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	227388110	200.0000000	ppb
9) I Fluorobenzene #2	6.11	981784328	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	167367858	196.0625597	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.03%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	516943246	202.3984332	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 101.20%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	30204	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	2052017053	10.6921983	ppm
4) H,M TPHG C6 - C12	8.50	1771101492	9.5212721	ppm
5) H,M TPHGAK C6 to C10	8.50	1509459028	10.2638865	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	1582269202	9.8887727	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	342012394	699.2321988	ppb
12) T,M benzene	6.00	316648787	189.2900581	ppb
13) T,M toluene	7.19	1604197339	1091.9093115	ppb
14) T,M ethylbenzene	8.18	296264301	231.3436310	ppb
15) T,M m&p-xylene	8.29	1212726019	817.0144754	ppb
16) T,M o-xylene	8.56	426543644	329.9193695	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	108760576	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.54	307565179	NoCal	ppb
19) T,M Naphthalene	11.48	6427013	NoCal	ppb

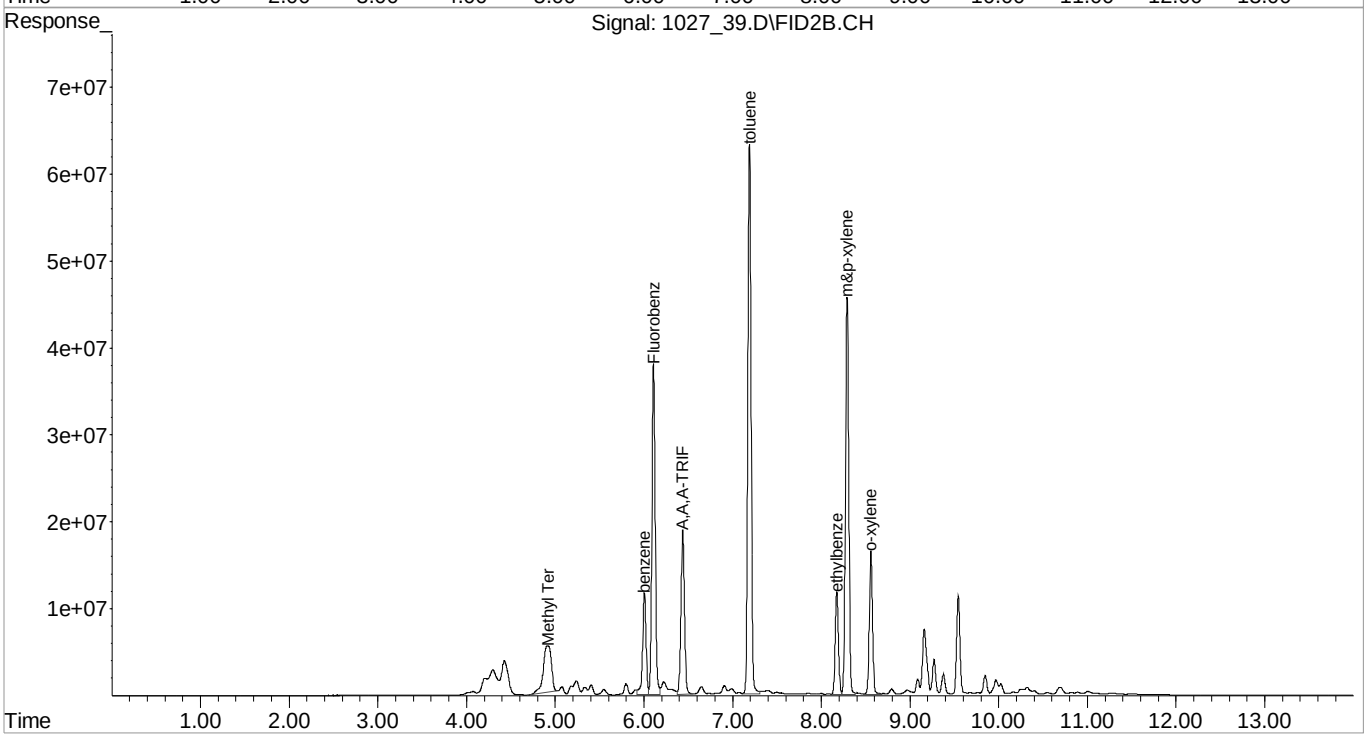
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 39.D\FID1A.CH Vial: 39
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 39.D\FID2B.CH
Acq On : 10-28-2014 09:35:40 AM Operator: 621
Sample : MSGRO 5x WG750790 L729396-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:22 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 40.D\FID1A.CH Vial: 40
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 40.D\FID2B.CH
Acq On : 10-28-2014 09:56:24 AM Operator: 621
Sample : MSDGRO 5x WG750790 L729396-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:22:53 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.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	6.11	235113181	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1029789690	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	173379059	196.4309991	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.22%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	575601065	214.8589380	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 107.43%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	21957	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	1875479859	9.3540736	ppm
4) H,M TPHG C6 - C12	8.50	1613352829	8.2909511	ppm
5) H,M TPHGAK C6 to C10	8.50	1376187201	8.9707287	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	1440417012	8.6384650	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	354941442	691.8370885	ppb
12) T,M benzene	6.01	353555794	201.5002040	ppb
13) T,M toluene	7.19	1693848880	1099.1855104	ppb
14) T,M ethylbenzene	8.18	270987899	201.7417006	ppb
15) T,M m&p-xylene	8.29	1108950911	712.2737407	ppb
16) T,M o-xylene	8.56	397620762	293.2114651	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	89669815	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	261978165	NoCal	ppb
19) T,M Naphthalene	11.49	6423402	NoCal	ppb

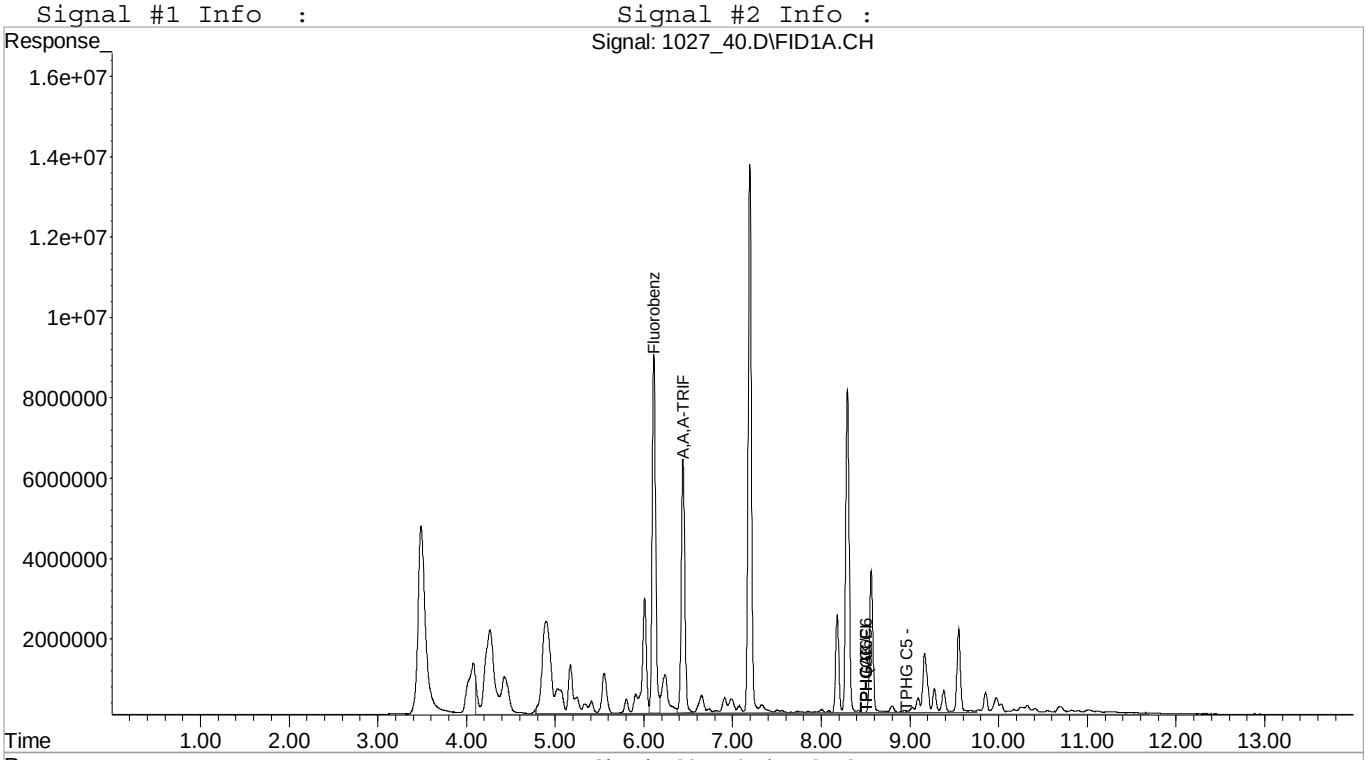
(f)=RT Delta > 1/2 Window (m)=manual int.

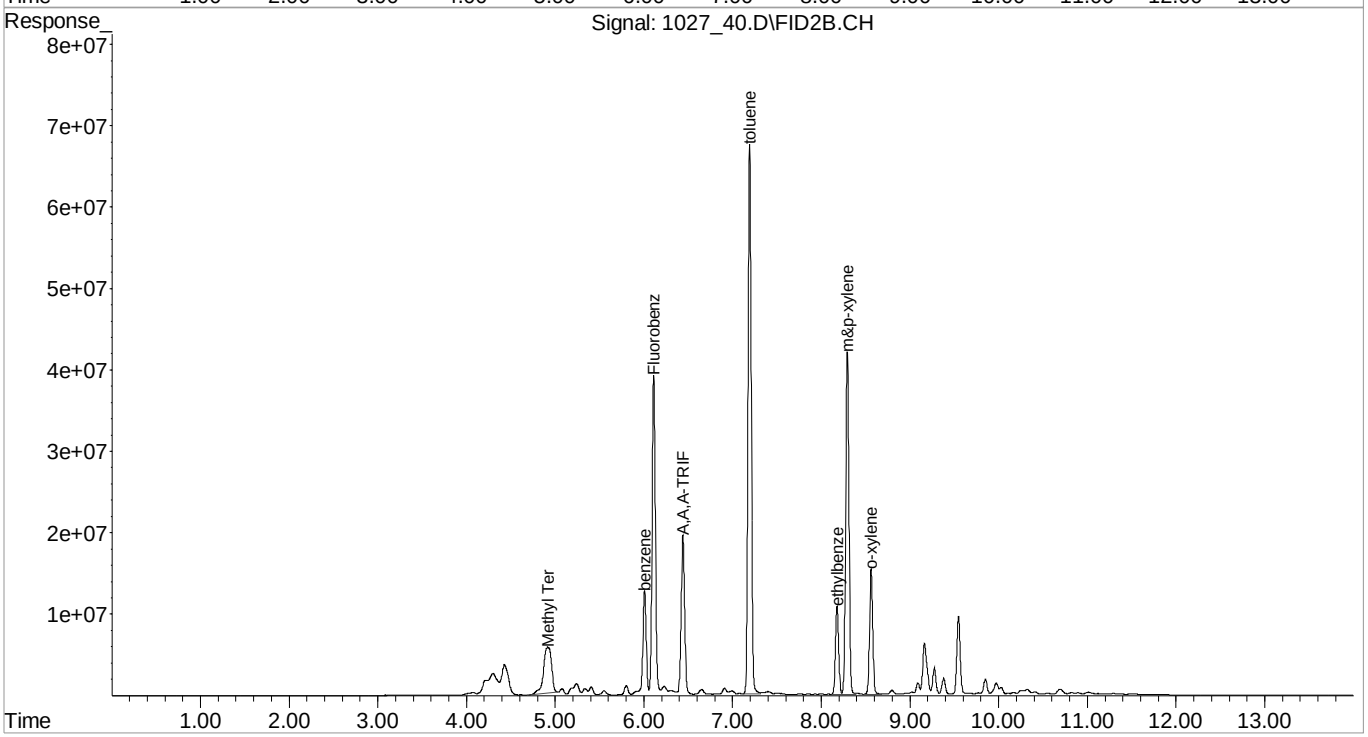
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 40.D\FID1A.CH Vial: 40
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 40.D\FID2B.CH
Acq On : 10-28-2014 09:56:24 AM Operator: 621
Sample : MSDGRO 5x WG750790 L729396-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:22 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 42.D\FID1A.CH Vial: 42
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 42.D\FID2B.CH
Acq On : 28 Oct 2014 10:37 am Operator: 621
Sample : BLANK 1x WG750790 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:23:17 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

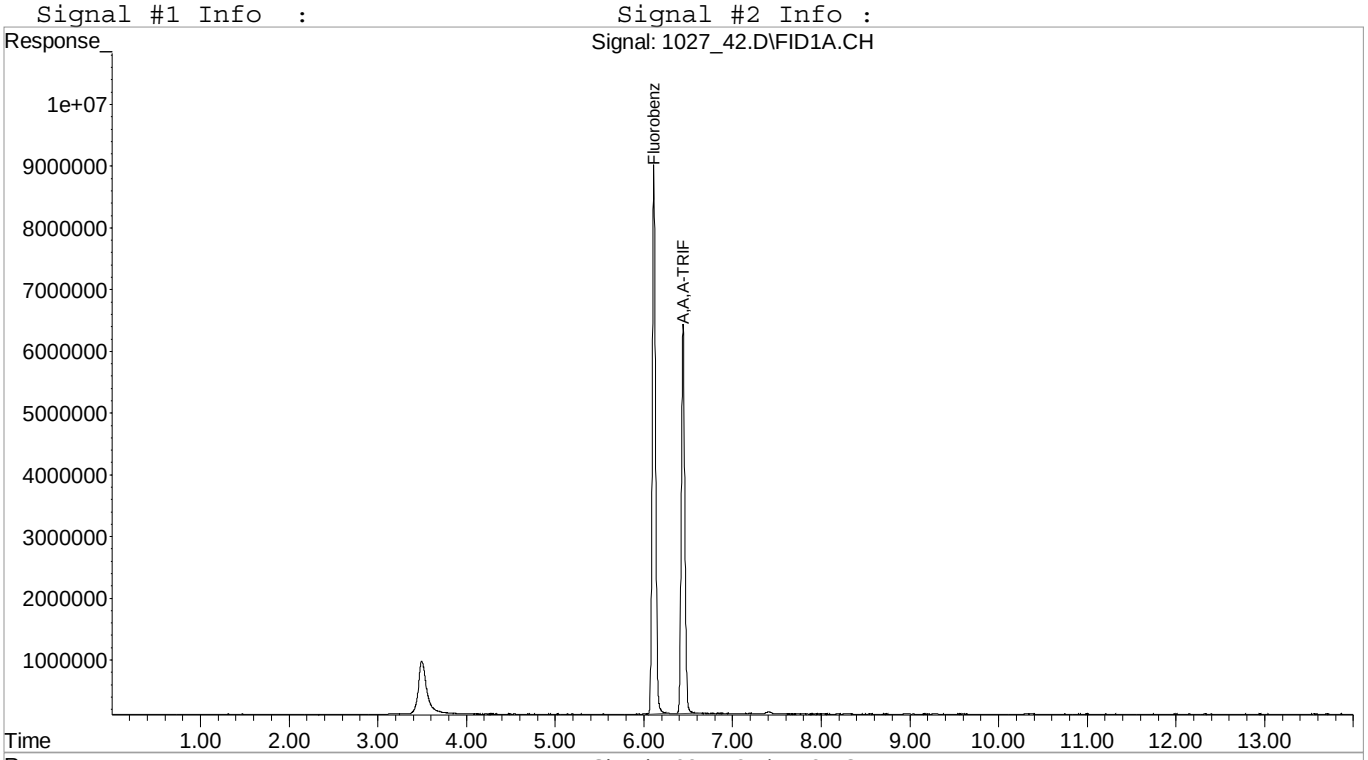
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	226941982	200.0000000	ppb
9) I Fluorobenzene #2	6.11	996157669	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	171130897	200.8648501	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.43%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	524774356	202.4999392	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 101.25%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	3232	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	43412750	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40184965	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	31213584	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32551650	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.96	21825	0.0087954	ppb
12) T,M benzene	6.01	368148	0.0433801	ppb
13) T,M toluene	7.20	838301	0.1124726	ppb
14) T,M ethylbenzene	8.19	141336	0.0217545	ppb
15) T,M m&p-xylene	8.30	1418772	0.1884072	ppb
16) T,M o-xylene	8.57	433824	0.0661418	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	555255	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	516486	NoCal	ppb
19) T,M Naphthalene	11.49	114078	NoCal	ppb

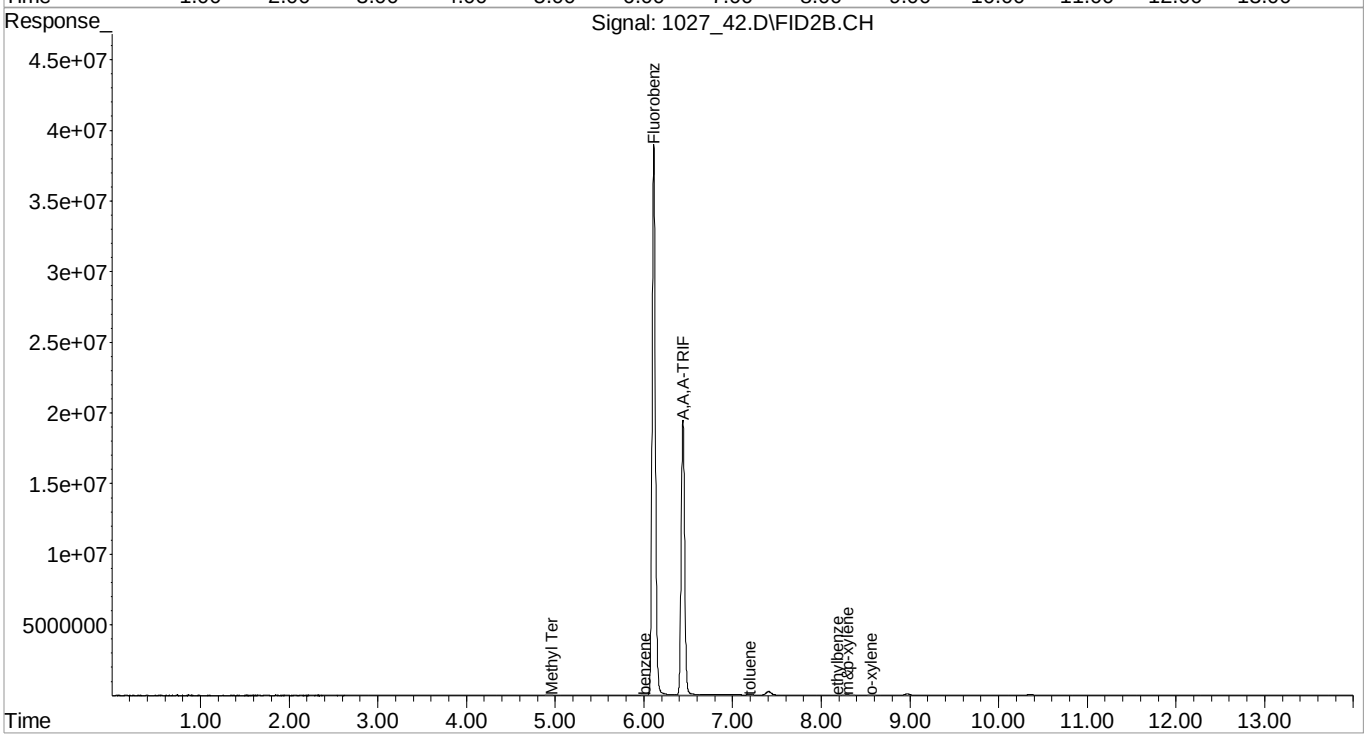
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 42.D\FID1A.CH Vial: 42
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 42.D\FID2B.CH
Acq On : 28 Oct 2014 10:37 am Operator: 621
Sample : BLANK 1x WG750790 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 12:23 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 47.D\FID1A.CH Vial: 47
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 47.D\FID2B.CH
Acq On : 28 Oct 2014 12:47 pm Operator: 621
Sample : L729026-06 1x WG750790 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 0.98
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 20:23:58 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

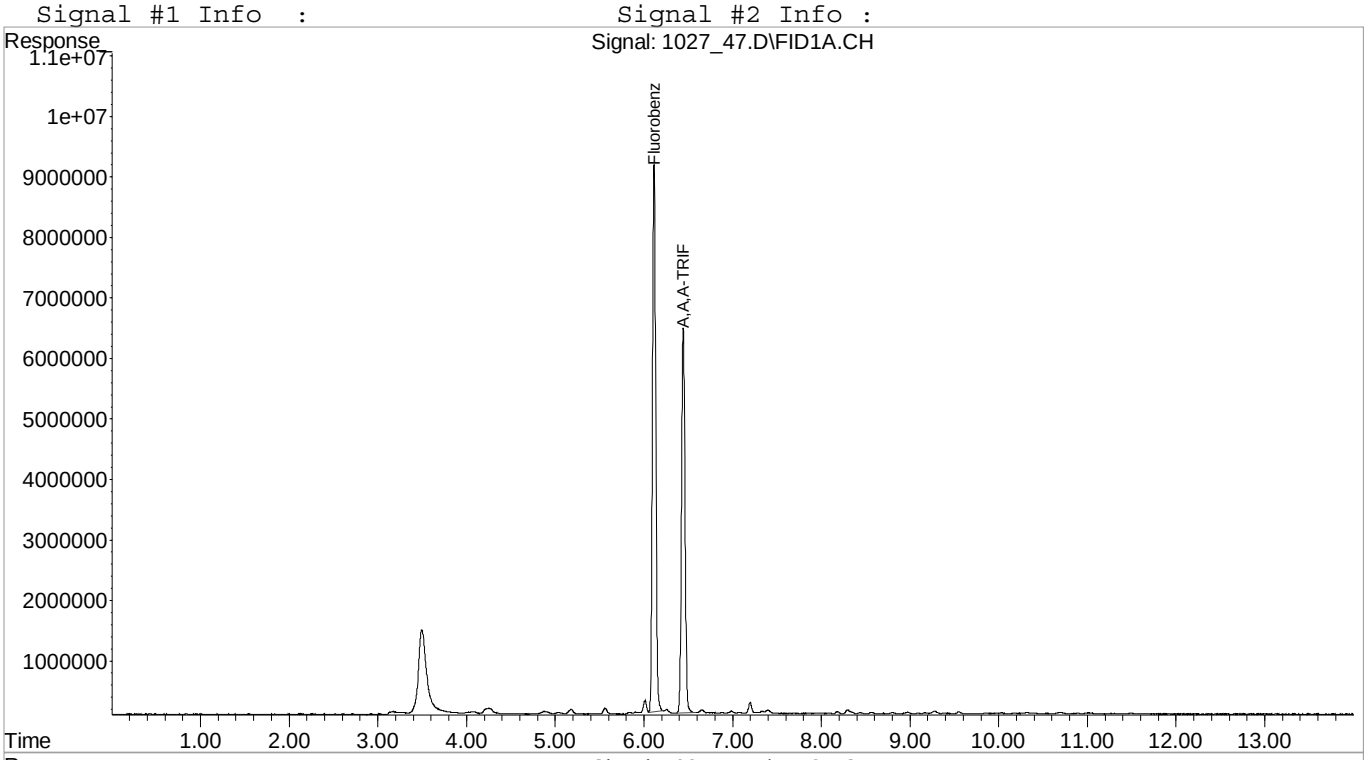
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	228390976	200.0000000	ppb
9) I Fluorobenzene #2	6.11	999795504	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	172175483	200.8087951	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.40%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	524089889	201.4999659	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 100.75%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	10333	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	109911665	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	94236688	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	65362648	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	70123051	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	103917	0.0408909	ppb
12) T,M benzene	6.01	25885730	2.9783202	ppb
13) T,M toluene	7.20	19416911	2.5437235	ppb
14) T,M ethylbenzene	8.18	3637513	0.5466933	ppb
15) T,M m&p-xylene	8.30	9082964	1.1777568	ppb
16) T,M o-xylene	8.57	2613751	0.3891074	ppb
17) T,M 1,3,5-Trimethylbenzene	9.26	6319724	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	3982363	NoCal	ppb
19) T,M Naphthalene	11.49	2760858	NoCal	ppb

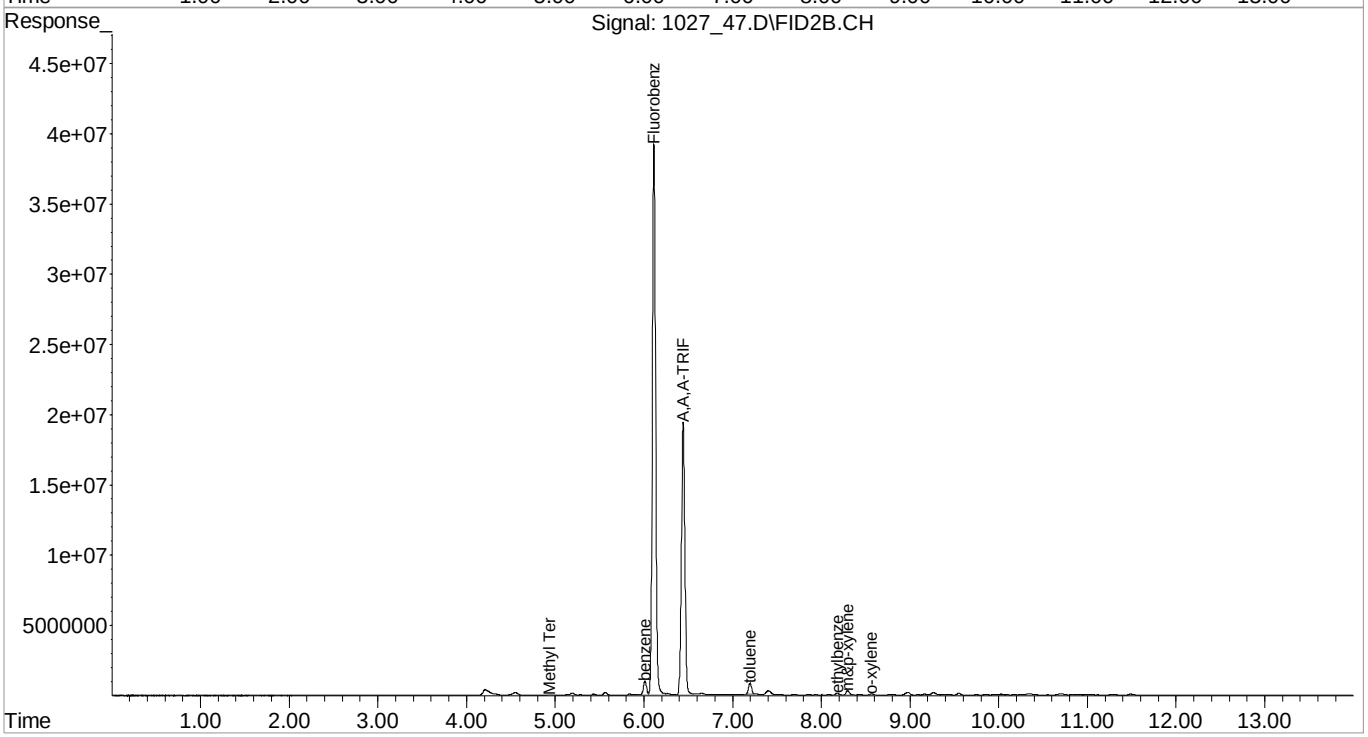
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 47.D\FID1A.CH Vial: 47
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 47.D\FID2B.CH
Acq On : 28 Oct 2014 12:47 pm Operator: 621
Sample : L729026-06 1x WG750790 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 0.98
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 20:23 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 55.D\FID1A.CH Vial: 55
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 55.D\FID2B.CH
Acq On : 10-28-2014 03:32:57 PM Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 20:25:05 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.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	6.12	299992788	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1088594760	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	210002565	186.4679291	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 93.23%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	592929090	209.3711767	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 104.69%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	94102	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6884343909	5.6963307	ppm
4) H,M TPHG C6 - C12	8.50	6627829314	5.7017847	ppm
5) H,M TPHGAK C6 to C10	8.50	5220800181	5.5996479	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5622403530	5.5194291	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	476871637	175.8575097	ppb
12) T,M benzene	6.01	658715468	71.0276898	ppb
13) T,M toluene	7.19	2127792084	261.2388831	ppb
14) T,M ethylbenzene	8.18	715167355	100.7316059	ppb
15) T,M m&p-xylene	8.29	2282984167	277.4276907	ppb
16) T,M o-xylene	8.56	974271071	135.9264572	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	531719912	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1460067449	NoCal	ppb
19) T,M Naphthalene	11.49	5971983	NoCal	ppb

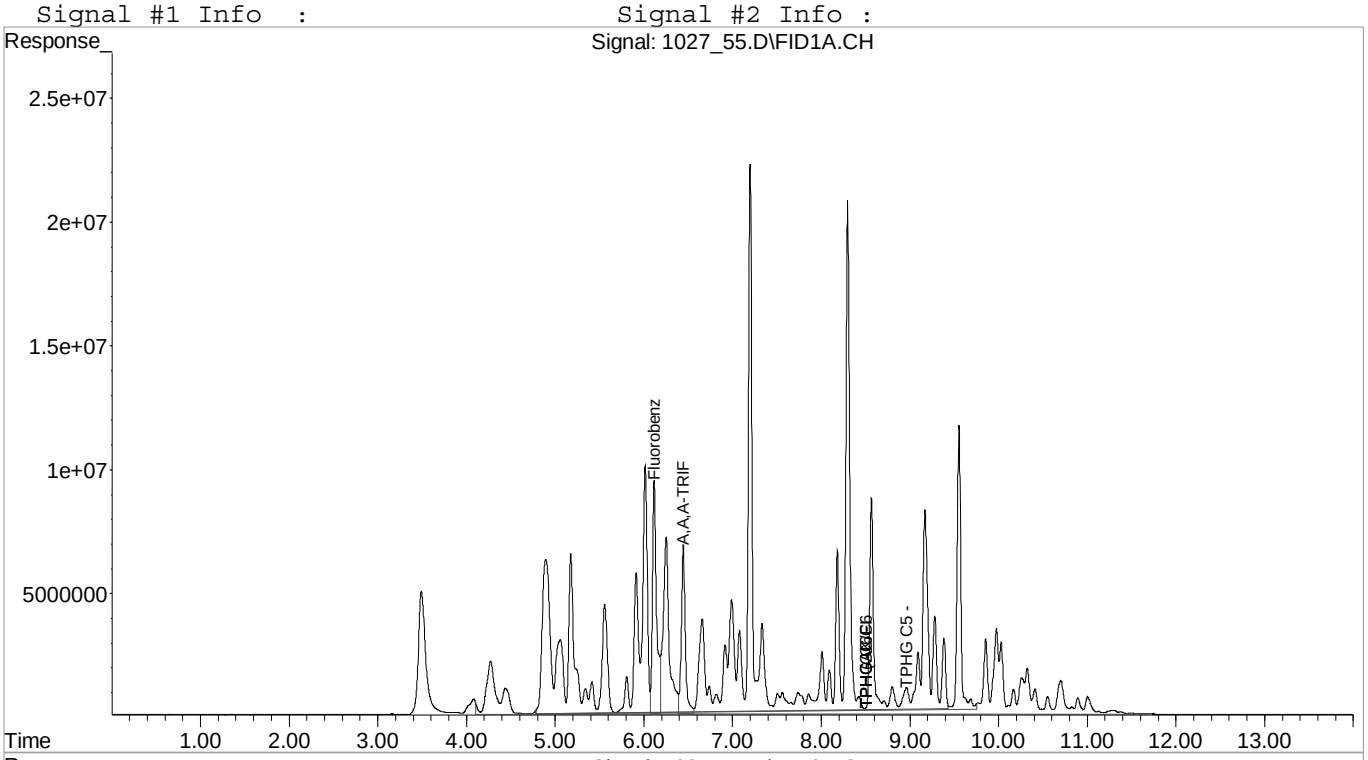
(f)=RT Delta > 1/2 Window (m)=manual int.

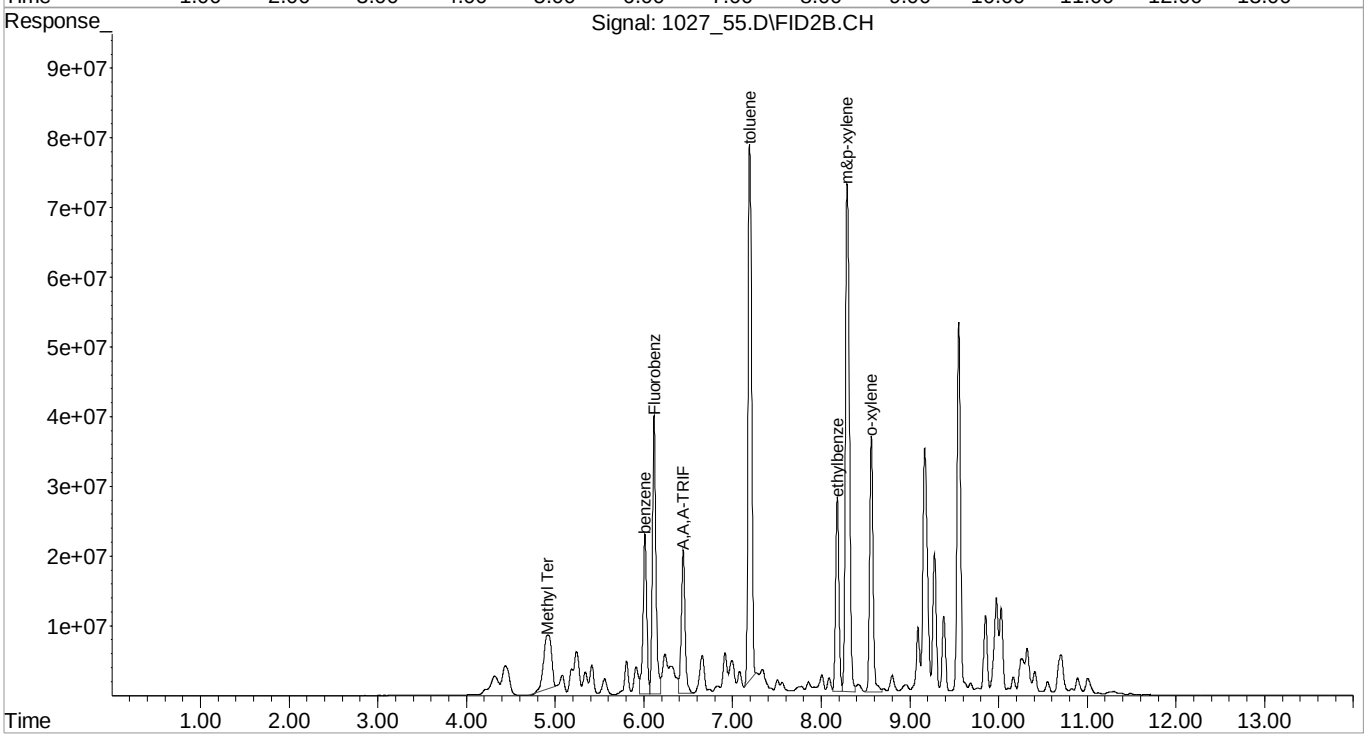
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102714\1027 55.D\FID1A.CH Vial: 55
Signal #2 : C:\MSDCHEM\1\DATA\102714\1027 55.D\FID2B.CH
Acq On : 10-28-2014 03:32:57 PM Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 20:25 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.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 : VOCGC12
Computer Name : VOCCOMPX

Released By : Amy Green
Date Released : 10/29/2014 3:23:49 PM

Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1029_01	INSTBLK	BG12H21N						1	1	10/29/14 0918	"soil SURIS14F10114"
2	1029_02	ICV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/29/14 0939	"soil SURIS14F10114"
3	1029_03	LCSGRO	BG12H21N	WG751264	GRO	SS			1	1	10/29/14 1026	"soil SURIS14F10114/SPK14J27633"
4	1029_04	LCSDGRO	BG12H21N	WG751264	GRO	SS			1	1	10/29/14 1047	"soil SURIS14F10114/SPK14J27633"
5	1029_05	MSGRO	BG12H21N	WG751264	GRO	SS			5	5	10/29/14 1137	"soil SURIS14F10114/SPK14J27633"
6	1029_06	MSDGRO	BG12H21N	WG751264	GRO	SS			5	5	10/29/14 1158	"soil SURIS14F10114/SPK14J27633"
7	1029_07	INSTBLK	BG12H21N						1	1	10/29/14 1218	"soil SURIS14F10114"
8	1029_08	BLANK	BG12H21N	WG751264	GRO	SS			1	1	10/29/14 1239	"soil SURIS14F10114"
9	1029_09	L729965-01	BG12H21N	WG751264	GROOH	SS	ARCADISBP	CA	5	5	10/29/14 1316	"soil SURIS14F10114"
10	1029_10	L729012-05	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	19.75	19.75	10/29/14 1336	"soil SURIS14F10114"
11	1029_11	L729012-06	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	1	0.91	10/29/14 1357	"soil SURIS14F10114"
12	1029_12	L729012-07	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	20.5	20.5	10/29/14 1418	"soil SURIS14F10114"
13	1029_13	L729021-01	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	1	0.81	10/29/14 1446	"soil SURIS14F10114"
14	1029_14	L729026-05	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	1	0.9	10/29/14 1506	"soil SURIS14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 02.D\FID1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 02.D\FID2B.CH
Acq On : 10-29-2014 09:39:14 AM Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33:39 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

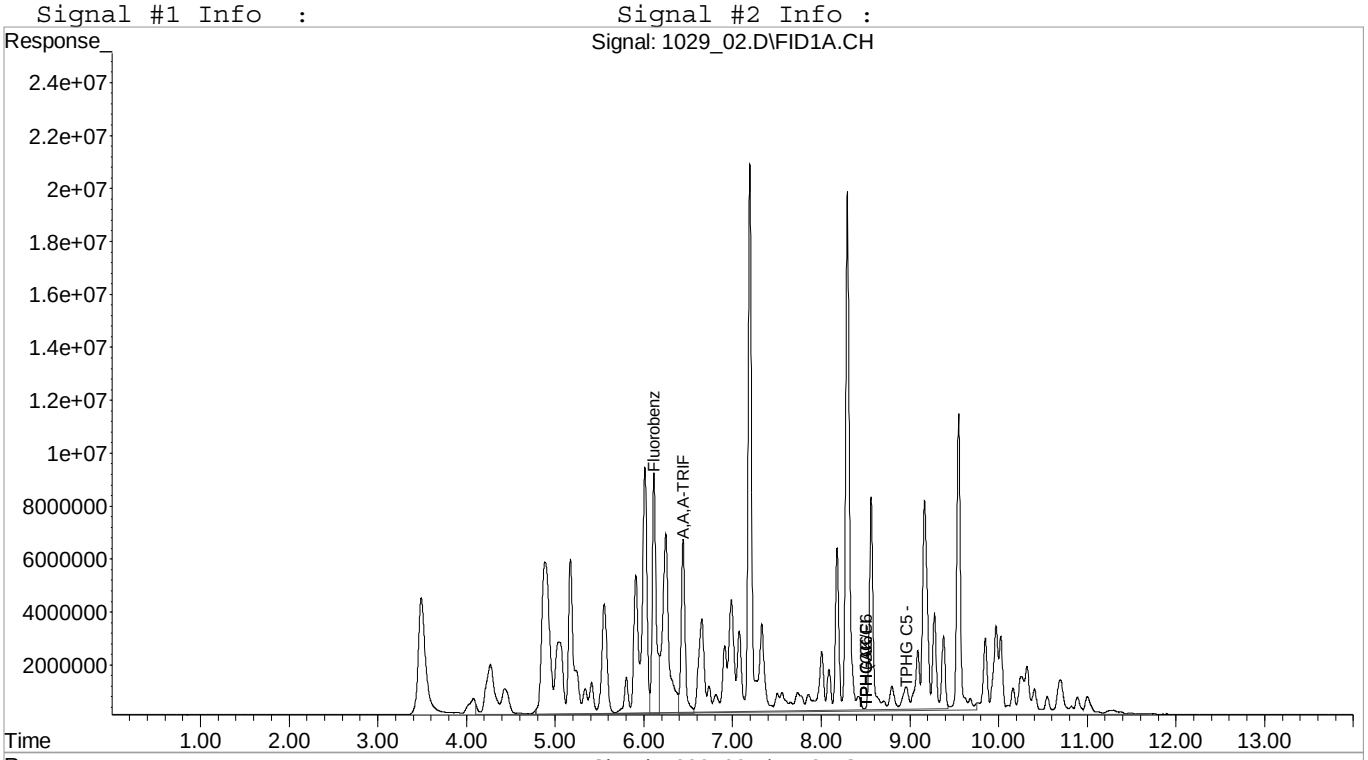
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	283063930	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1111938225	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	203591380	191.5866375	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 95.79%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	684973608	236.7955594	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 118.40%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	56401	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6477594391	5.6798476	ppm
4) H,M TPHG C6 - C12	8.50	6251663637	5.6997669	ppm
5) H,M TPHGAK C6 to C10	8.50	4897977031	5.5668129	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5306325425	5.5207024	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	446405589	161.1664460	ppb
12) T,M benzene	6.01	657809544	69.4409377	ppb
13) T,M toluene	7.19	2095738020	251.9017594	ppb
14) T,M ethylbenzene	8.18	695473407	95.9012313	ppb
15) T,M m&p-xylene	8.29	2260442945	268.9218165	ppb
16) T,M o-xylene	8.56	941910175	128.6528045	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	528330941	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1451881550	NoCal	ppb
19) T,M Naphthalene	11.48	4934849	NoCal	ppb

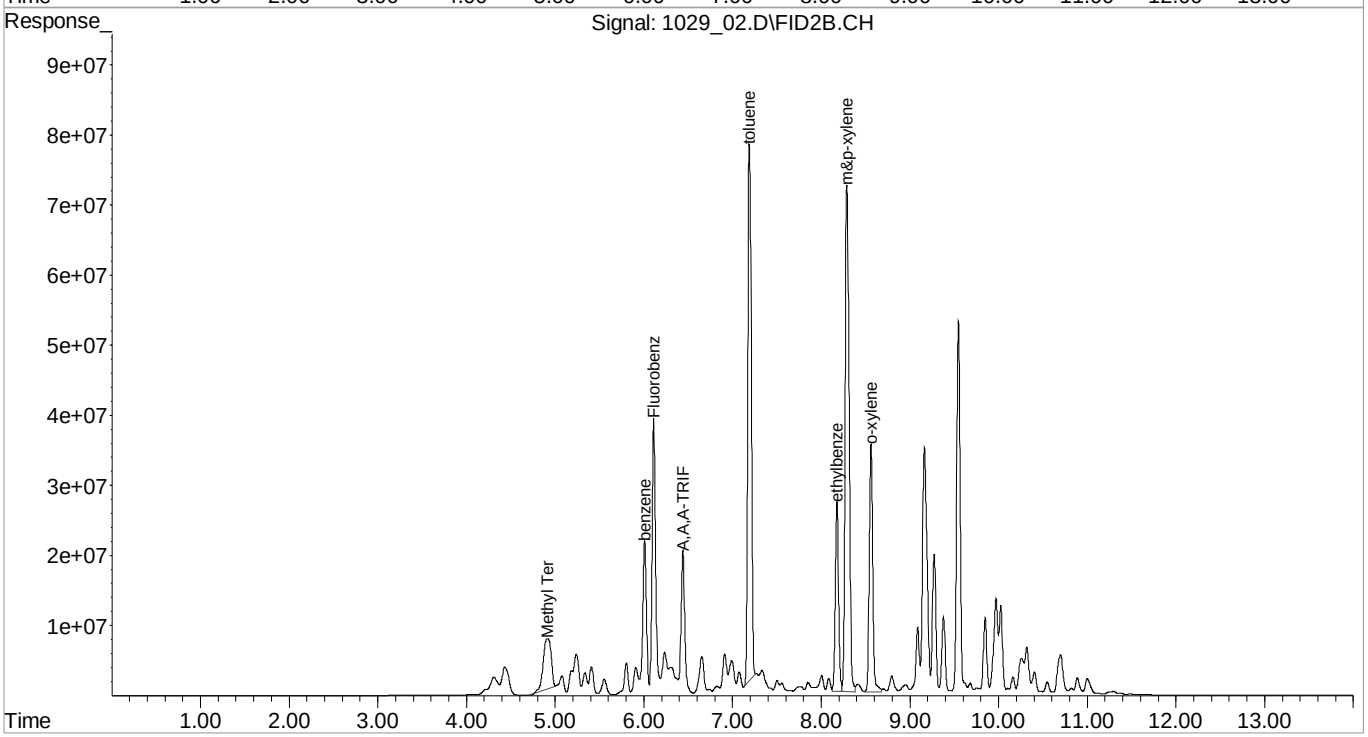
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 02.D\FID1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 02.D\FID2B.CH
Acq On : 10-29-2014 09:39:14 AM Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 03.D\FID2B.CH
Acq On : 29 Oct 2014 10:26 am Operator: 621
Sample : LCSGRO 1x WG751264 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33:42 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

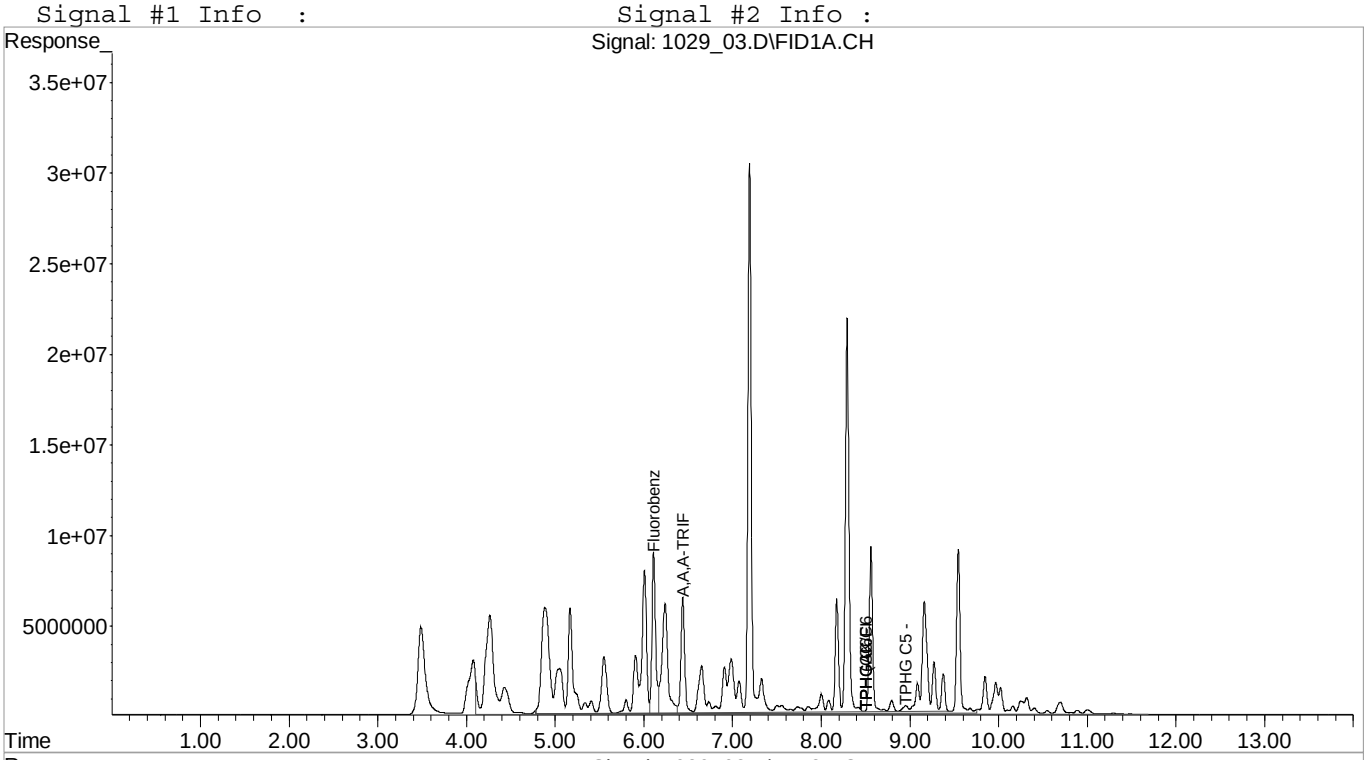
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	256435041	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1076715089	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	193295046	200.7861327	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.39%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	644898185	230.2346745	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 115.12%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	27401	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5794632453	5.6065196	ppm
4) H,M TPHG C6 - C12	8.50	5239212459	5.2604665	ppm
5) H,M TPHGAK C6 to C10	8.50	4387810557	5.5033461	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4772630039	5.4802541	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	421379262	157.1079005	ppb
12) T,M benzene	6.00	694782951	75.7433345	ppb
13) T,M toluene	7.18	2658569561	330.0061987	ppb
14) T,M ethylbenzene	8.17	726940616	103.5195678	ppb
15) T,M m&p-xylene	8.28	2356508960	289.5219152	ppb
16) T,M o-xylene	8.56	1062965334	149.9369705	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	416692209	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.54	1167550593	NoCal	ppb
19) T,M Naphthalene	11.48	2680908	NoCal	ppb

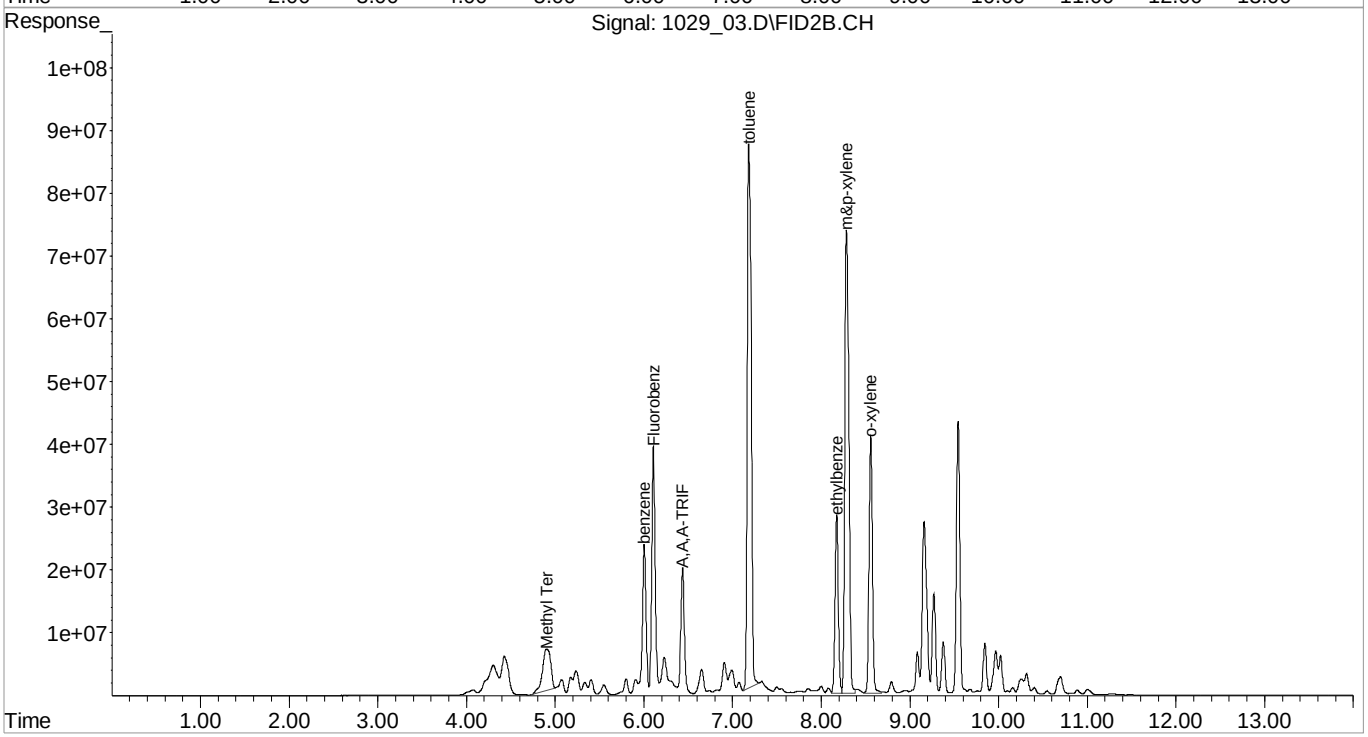
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 03.D\FID2B.CH
Acq On : 29 Oct 2014 10:26 am Operator: 621
Sample : LCSGRO 1x WG751264 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 04.D\FID2B.CH
Acq On : 29 Oct 2014 10:47 am Operator: 621
Sample : LCSDGRO 1x WG751264 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33:44 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

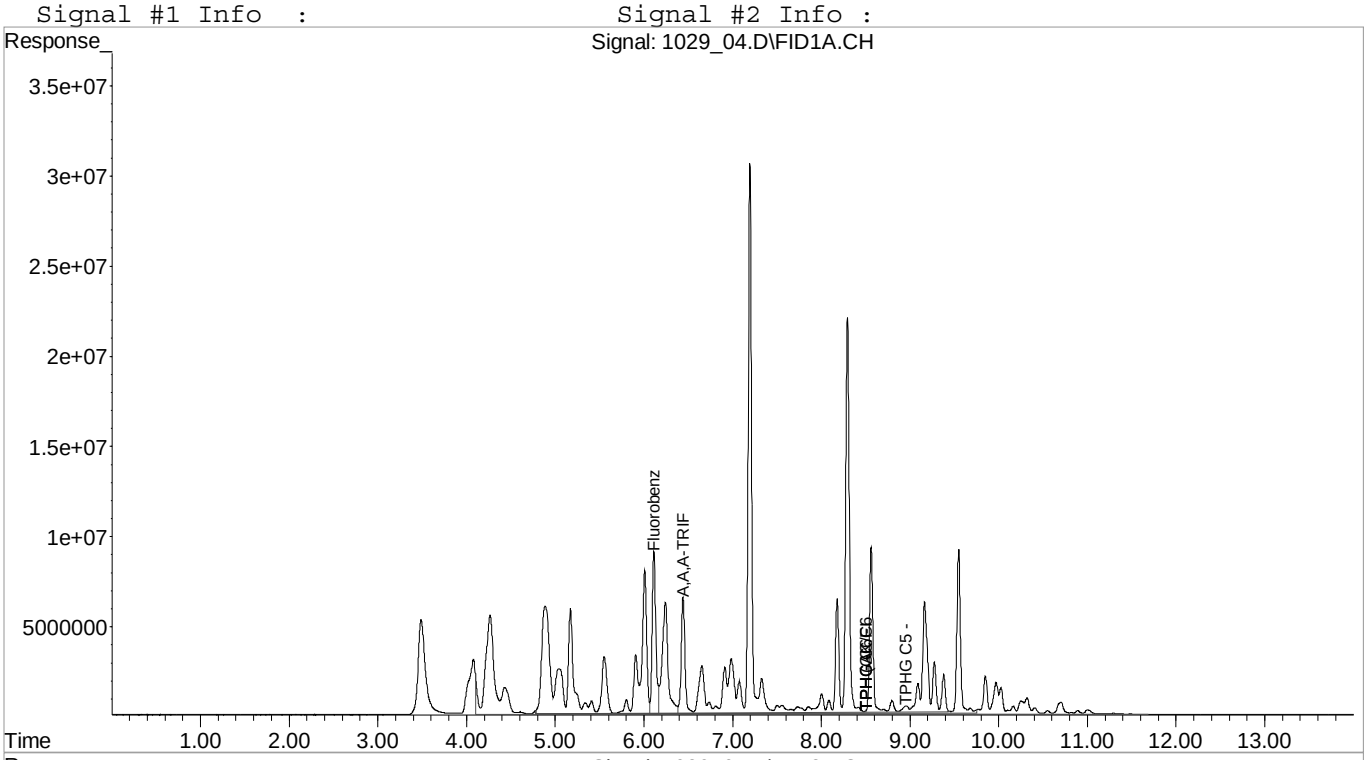
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	257210947	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1036906512	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	192215495	199.0624325	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 99.53%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	559374464	207.3687978	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 103.68%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	125782	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5837784242	5.6319700	ppm
4) H,M TPHG C6 - C12	8.50	5286244179	5.2926481	ppm
5) H,M TPHGAK C6 to C10	8.50	4429589908	5.5398583	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4813871076	5.5115718	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	424953412	164.5232896	ppb
12) T,M benzene	6.01	661673120	74.9031284	ppb
13) T,M toluene	7.18	2609656494	336.3710511	ppb
14) T,M ethylbenzene	8.18	716689118	105.9779521	ppb
15) T,M m&p-xylene	8.29	2316244882	295.5003621	ppb
16) T,M o-xylene	8.56	1046851949	153.3331627	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	408991817	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1151995906	NoCal	ppb
19) T,M Naphthalene	11.48	2804396	NoCal	ppb

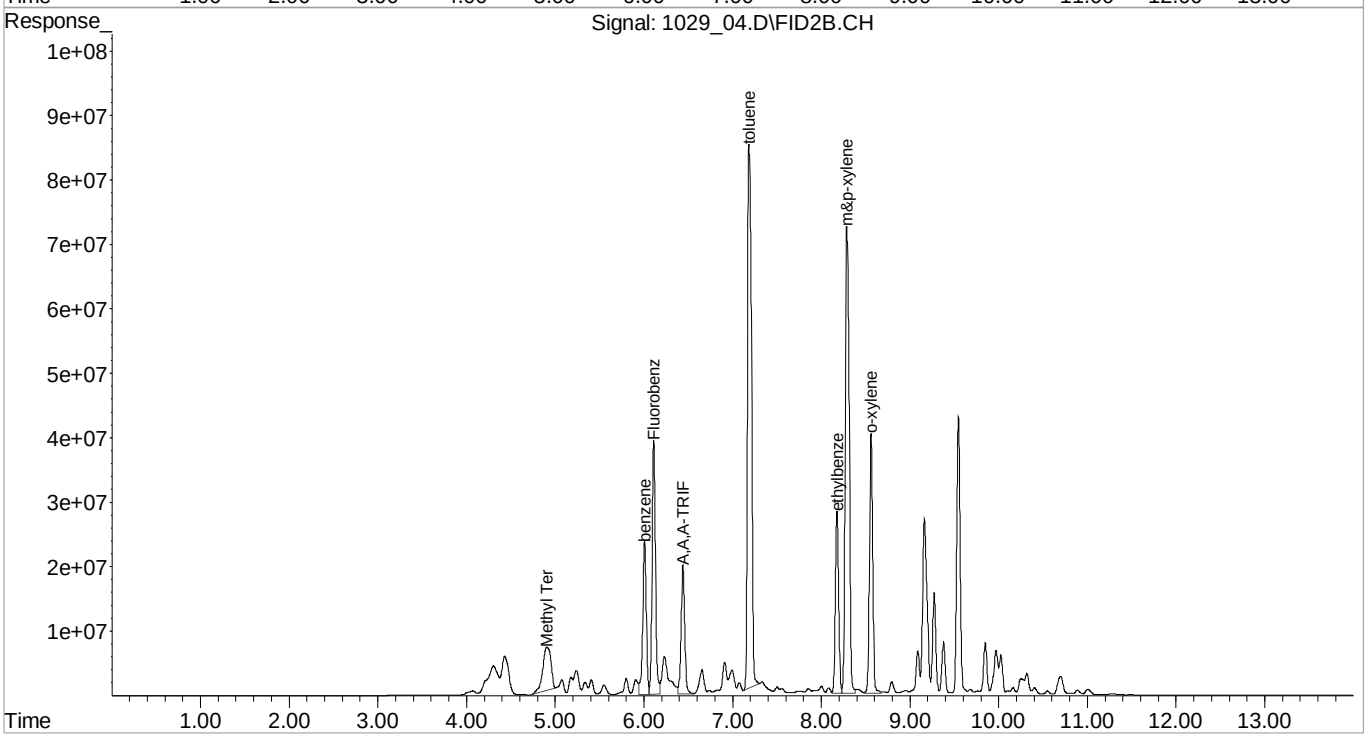
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 04.D\FID2B.CH
Acq On : 29 Oct 2014 10:47 am Operator: 621
Sample : LCSDGRO 1x WG751264 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 05.D\FID2B.CH
Acq On : 29 Oct 2014 11:37 am Operator: 621
Sample : MSGRO 5x WG751264 L729965-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33:47 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

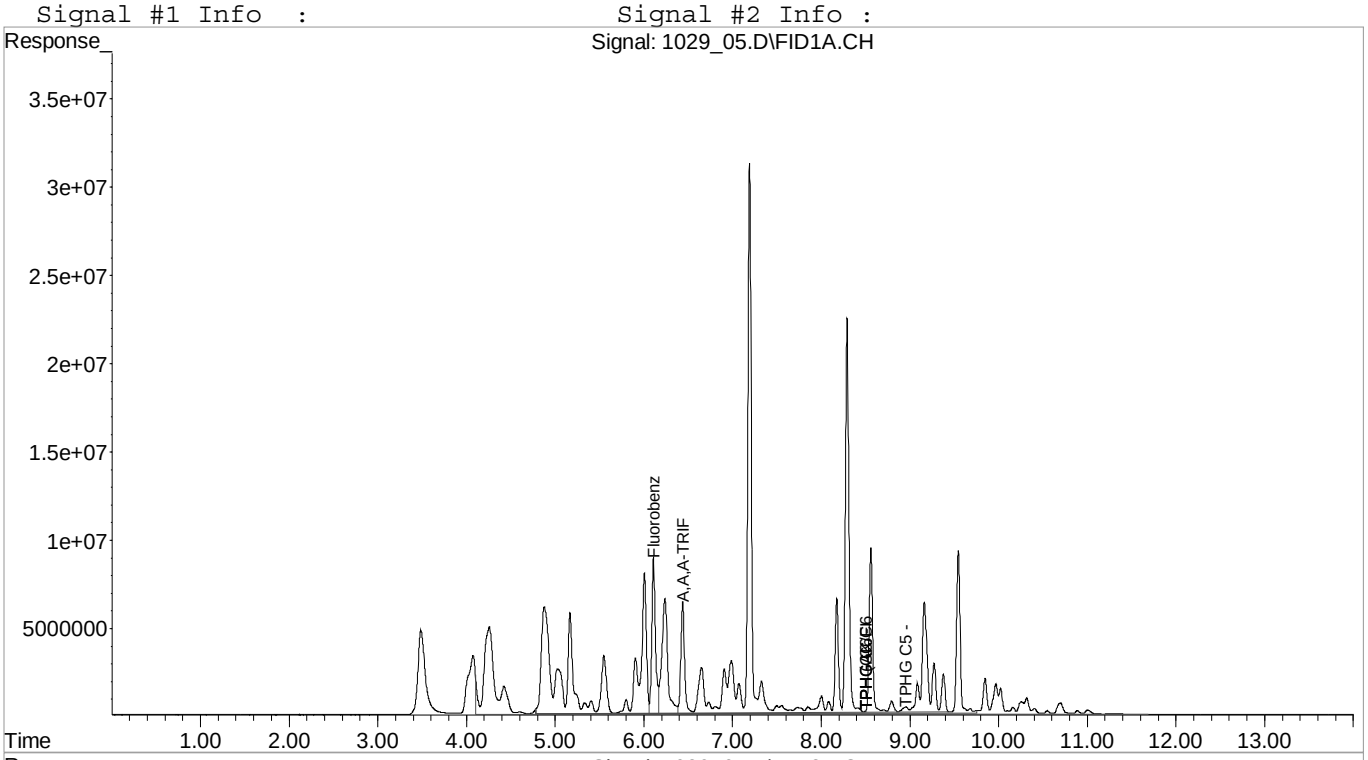
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	252189954	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1061583783	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	187254369	197.7855404	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.89%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	632270581	228.9438989	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 114.47%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	36141	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5853334219	28.8159473	ppm
4) H,M TPHG C6 - C12	8.50	5275830461	26.9515795	ppm
5) H,M TPHGAK C6 to C10	8.50	4464909528	28.4948814	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4852773780	28.3496709	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	422414343	798.6933164	ppb
12) T,M benzene	6.00	710349059	392.7205299	ppb
13) T,M toluene	7.18	2671095745	1681.4348830	ppb
14) T,M ethylbenzene	8.17	743591688	537.0003518	ppb
15) T,M m&p-xylene	8.28	2368237620	1475.5507498	ppb
16) T,M o-xylene	8.56	1082033718	774.0106791	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	421078300	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.54	1179593312	NoCal	ppb
19) T,M Naphthalene	11.48	2473996	NoCal	ppb

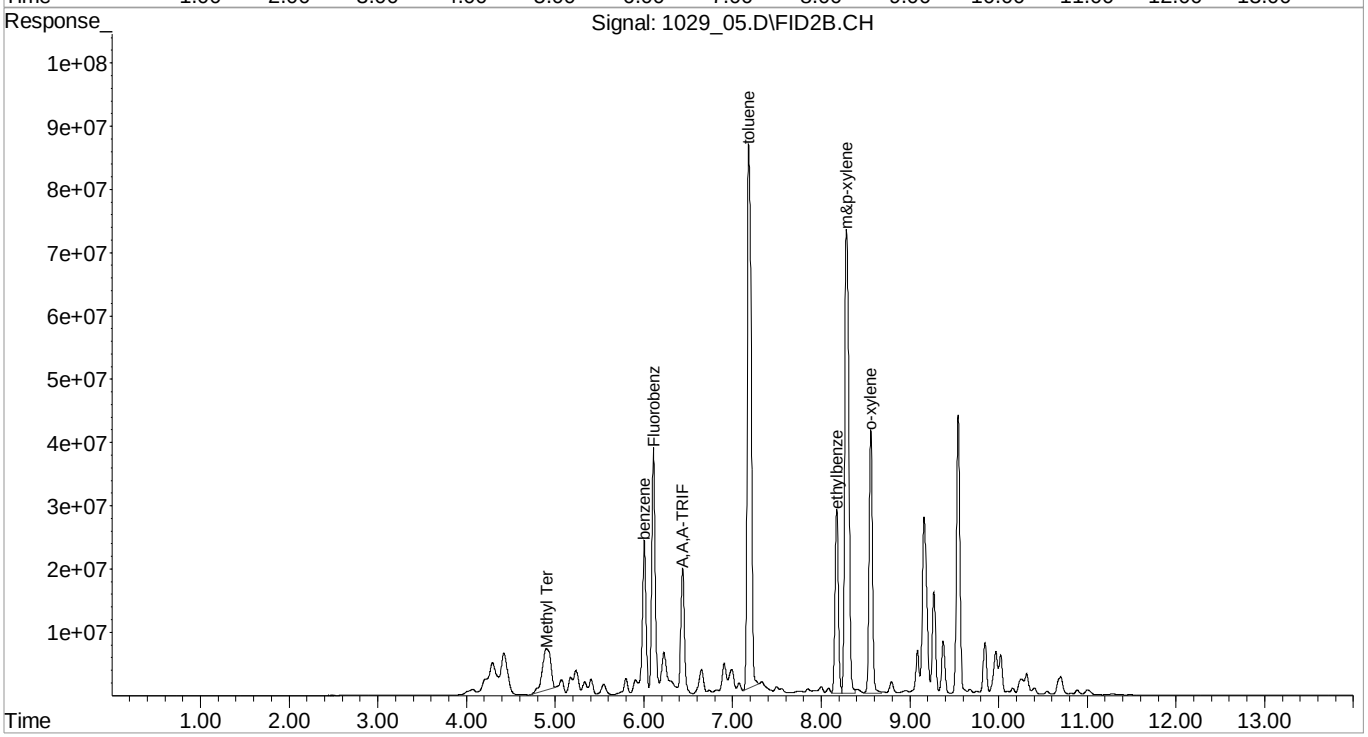
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 05.D\FID2B.CH
Acq On : 29 Oct 2014 11:37 am Operator: 621
Sample : MSGRO 5x WG751264 L729965-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 06.D\FID2B.CH
Acq On : 29 Oct 2014 11:58 am Operator: 621
Sample : MSDGRO 5x WG751264 L729965-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33:50 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

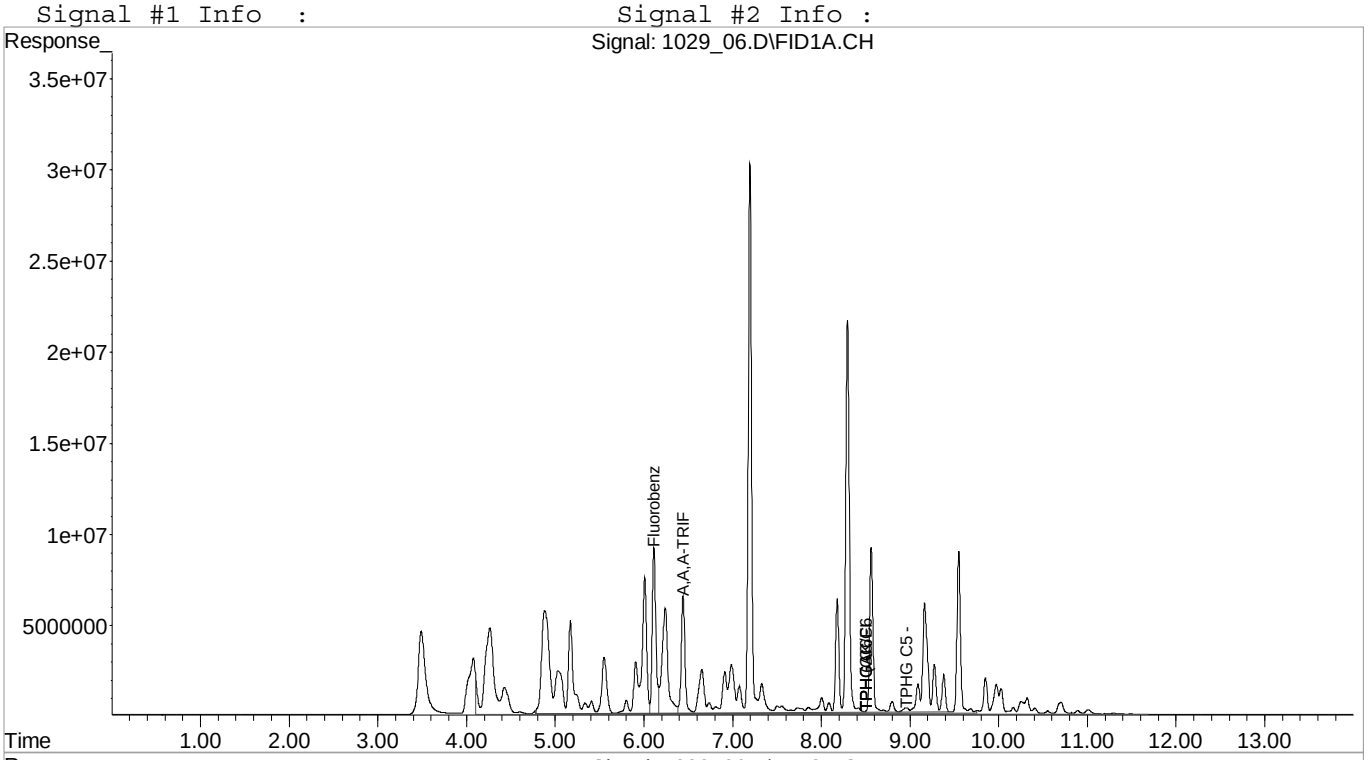
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	259231708	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1064769818	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	194008907	199.3535204	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 99.68%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	624571164	225.4792453	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 112.74%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	60639	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5490030108	26.2199312	ppm
4) H,M TPHG C6 - C12	8.50	4957209374	24.5657535	ppm
5) H,M TPHGAK C6 to C10	8.50	4196615241	25.9975619	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4553769212	25.8307325	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	408444221	769.9680308	ppb
12) T,M benzene	6.01	668337957	368.3888406	ppb
13) T,M toluene	7.18	2646600763	1661.0303751	ppb
14) T,M ethylbenzene	8.18	702437657	505.7622058	ppb
15) T,M m&p-xylene	8.28	2283570432	1418.5407949	ppb
16) T,M o-xylene	8.56	1028570198	733.5650625	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	394109877	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1115186968	NoCal	ppb
19) T,M Naphthalene	11.48	3040898	NoCal	ppb

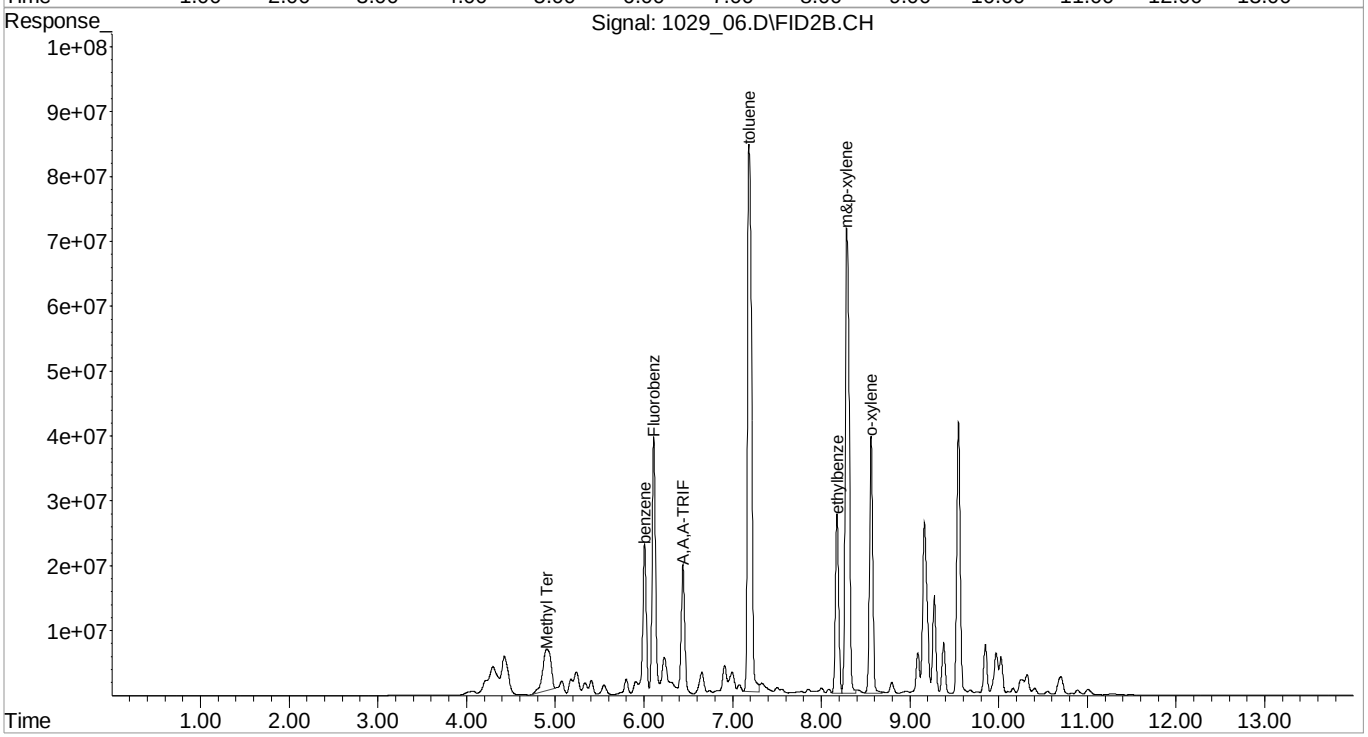
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 06.D\FID2B.CH
Acq On : 29 Oct 2014 11:58 am Operator: 621
Sample : MSDGRO 5x WG751264 L729965-01 Inst : VOCGC12
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 08.D\FID2B.CH
Acq On : 29 Oct 2014 12:39 pm Operator: 621
Sample : BLANK 1x WG751264 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33:55 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

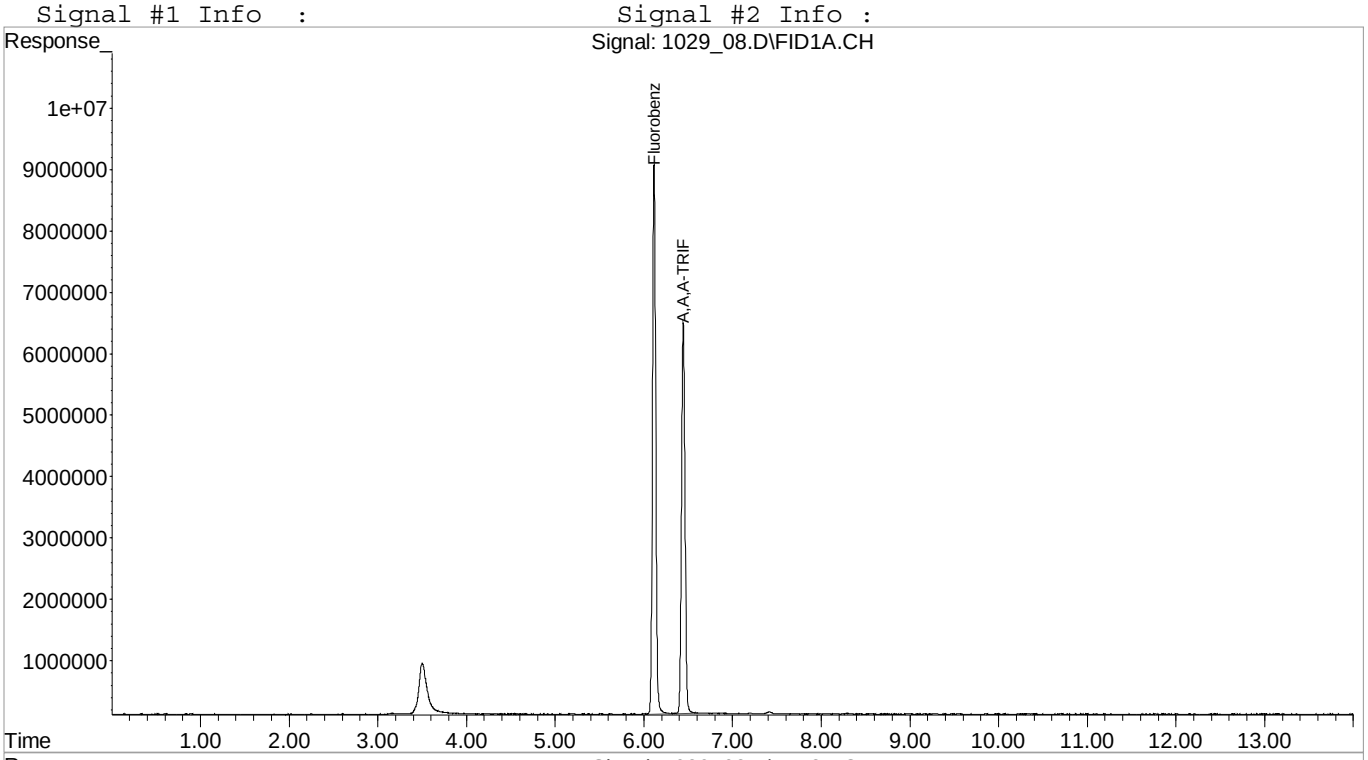
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	229105678	200.0000000	ppb
9) I Fluorobenzene #2	6.11	987910448	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	172498584	200.5580246	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.28%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	518185962	201.6268850	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 100.81%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	840	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	48724106	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	44976823	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	34442926	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	35960636	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	3926	0.0015955	ppb
12) T,M benzene	6.01	342263	0.0406667	ppb
13) T,M toluene	7.20	1004089	0.1358406	ppb
14) T,M ethylbenzene	8.18	317668	0.0493038	ppb
15) T,M m&p-xylene	8.30	1575174	0.2109230	ppb
16) T,M o-xylene	8.57	537177	0.0825830	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	573126	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	826239	NoCal	ppb
19) T,M Naphthalene	11.49	32192	NoCal	ppb

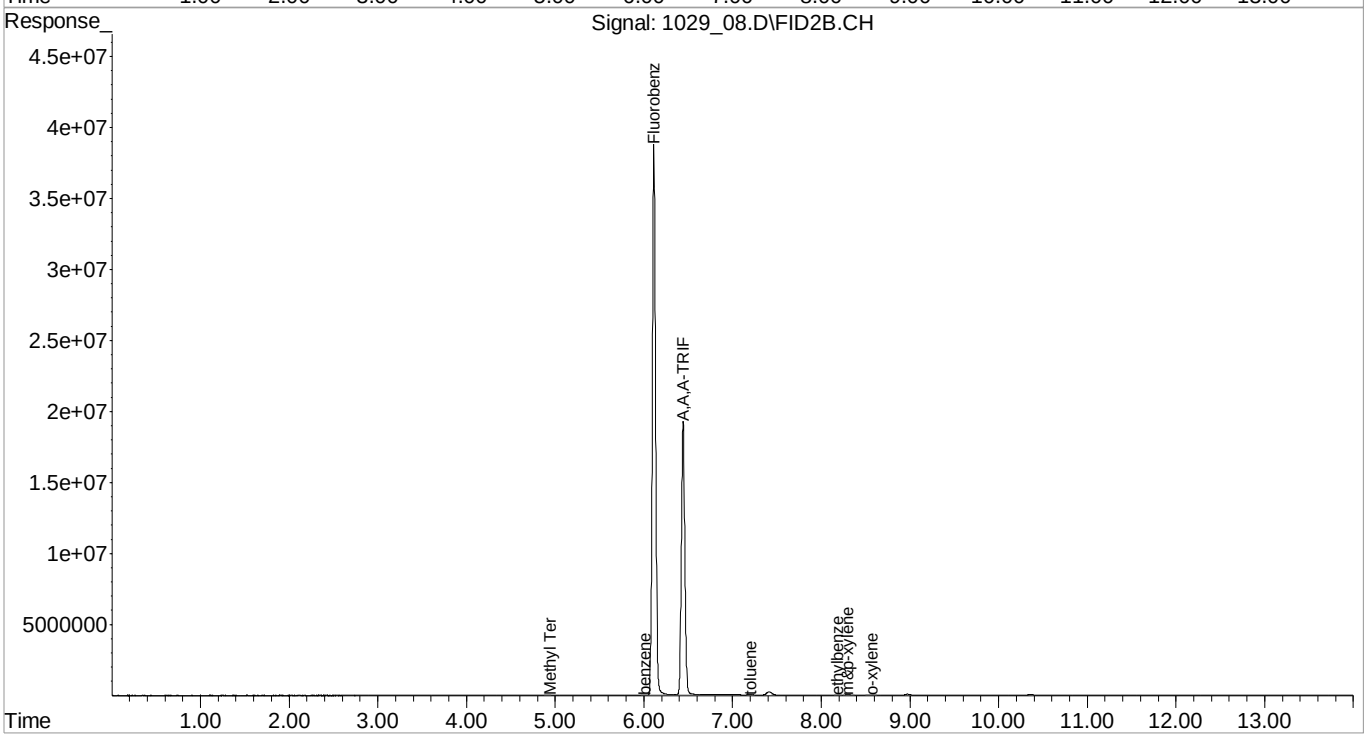
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 08.D\FID2B.CH
Acq On : 29 Oct 2014 12:39 pm Operator: 621
Sample : BLANK 1x WG751264 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 14:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 14.D\FID1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 14.D\FID2B.CH
Acq On : 10-29-2014 03:06:58 PM Operator: 621
Sample : L729026-05 1x WG751264 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 0.90
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 15:21:26 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

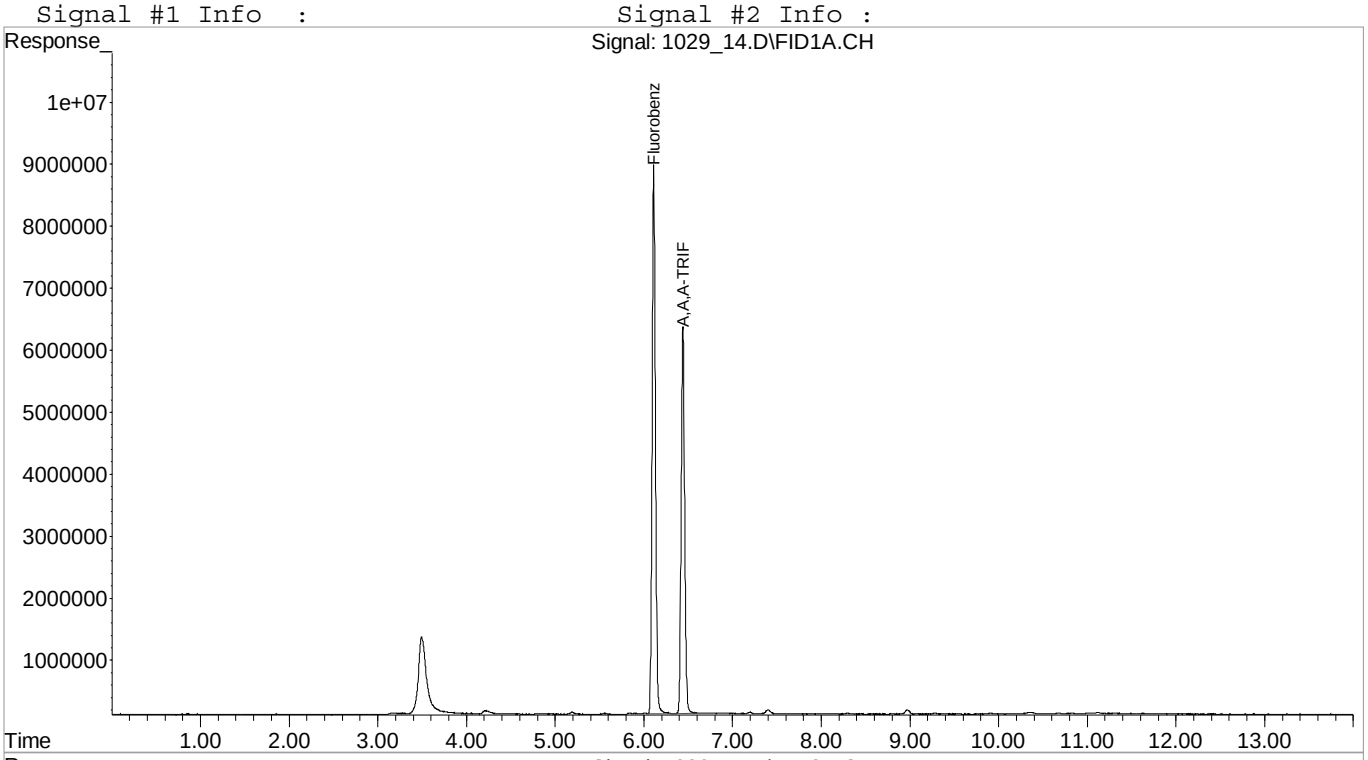
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	227229551	200.0000000	ppb
9) I Fluorobenzene #2	6.11	997419177	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	169013162	198.1281007	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 99.06%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	521663643	201.0449790	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 100.52%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	14773	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	63544017	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	57055970	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	37642150	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	39033846	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.95	227146	0.0822803	ppb
12) T,M benzene	6.01	2044969	0.2165946	ppb
13) T,M toluene	7.19	2869804	0.3460923	ppb
14) T,M ethylbenzene	8.18	421141	0.0582661	ppb
15) T,M m&p-xylene	8.30	1600532	0.1910480	ppb
16) T,M o-xylene	8.57	226261	0.0310074	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	682906	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	787637	NoCal	ppb
19) T,M Naphthalene	11.49	1039888	NoCal	ppb

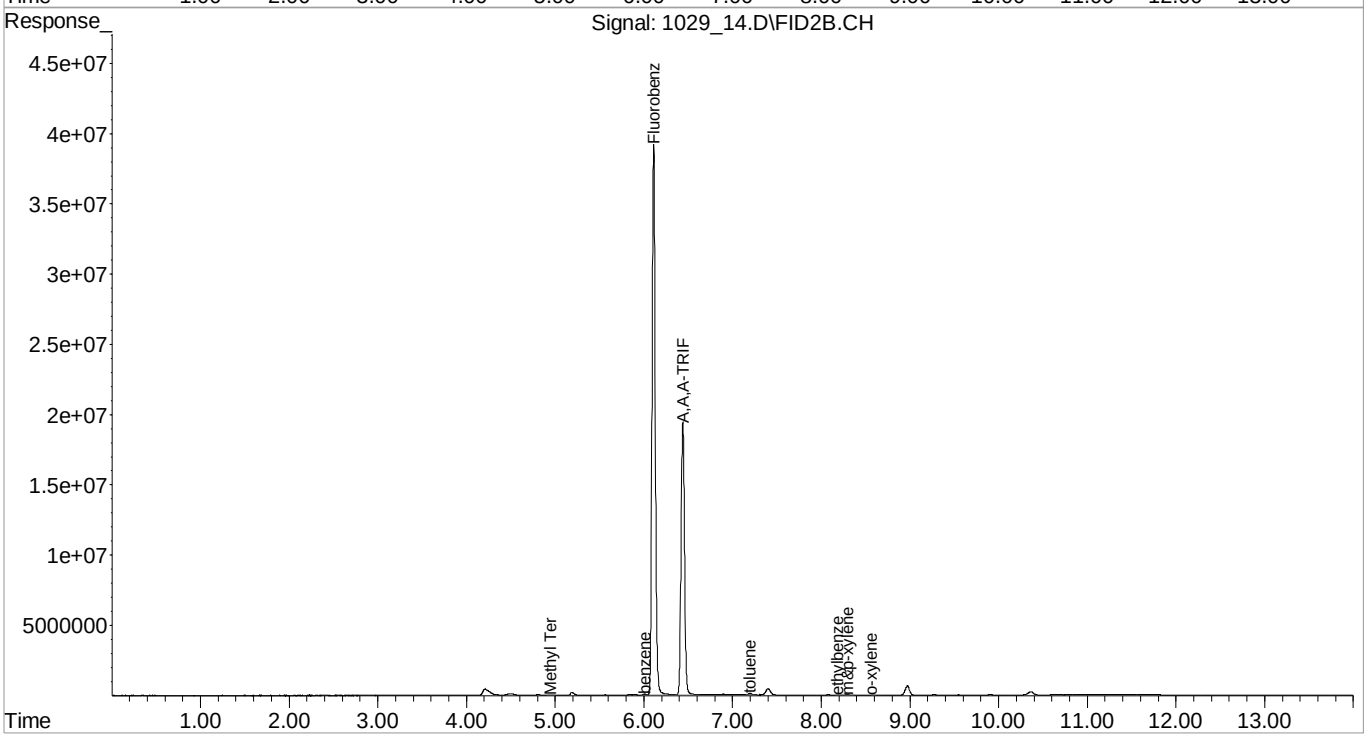
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 14.D\FID1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 14.D\FID2B.CH
Acq On : 10-29-2014 03:06:58 PM Operator: 621
Sample : L729026-05 1x WG751264 GRO Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 0.90
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 15:21 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 21.D\FID1A.CH Vial: 21
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 21.D\FID2B.CH
Acq On : 10-29-2014 05:41:57 PM Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 21:58:18 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

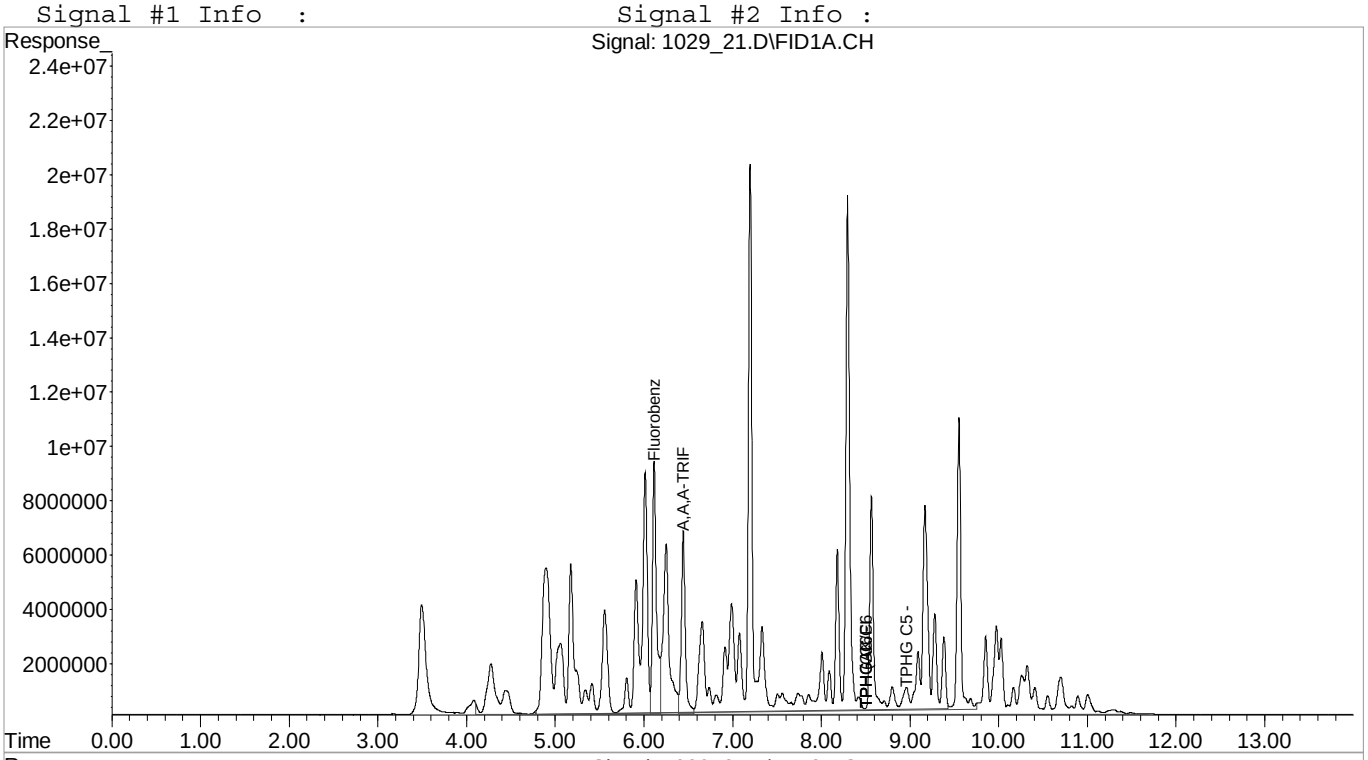
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	289589922	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1115217846	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	205414542	188.9461742	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 94.47%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	681122384	234.7717396	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 117.39%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	78913	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6237767328	5.3364645	ppm
4) H,M TPHG C6 - C12	8.50	6023615264	5.3585736	ppm
5) H,M TPHGAK C6 to C10	8.50	4685792012	5.1969158	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5037336623	5.1145448	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	429884355	154.7453455	ppb
12) T,M benzene	6.01	626944250	65.9880478	ppb
13) T,M toluene	7.19	2022919314	242.4341073	ppb
14) T,M ethylbenzene	8.18	662480001	91.0830105	ppb
15) T,M m&p-xylene	8.29	2174519014	257.9387826	ppb
16) T,M o-xylene	8.56	903808328	123.0855464	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	497831860	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1379238059	NoCal	ppb
19) T,M Naphthalene	11.49	6894872	NoCal	ppb

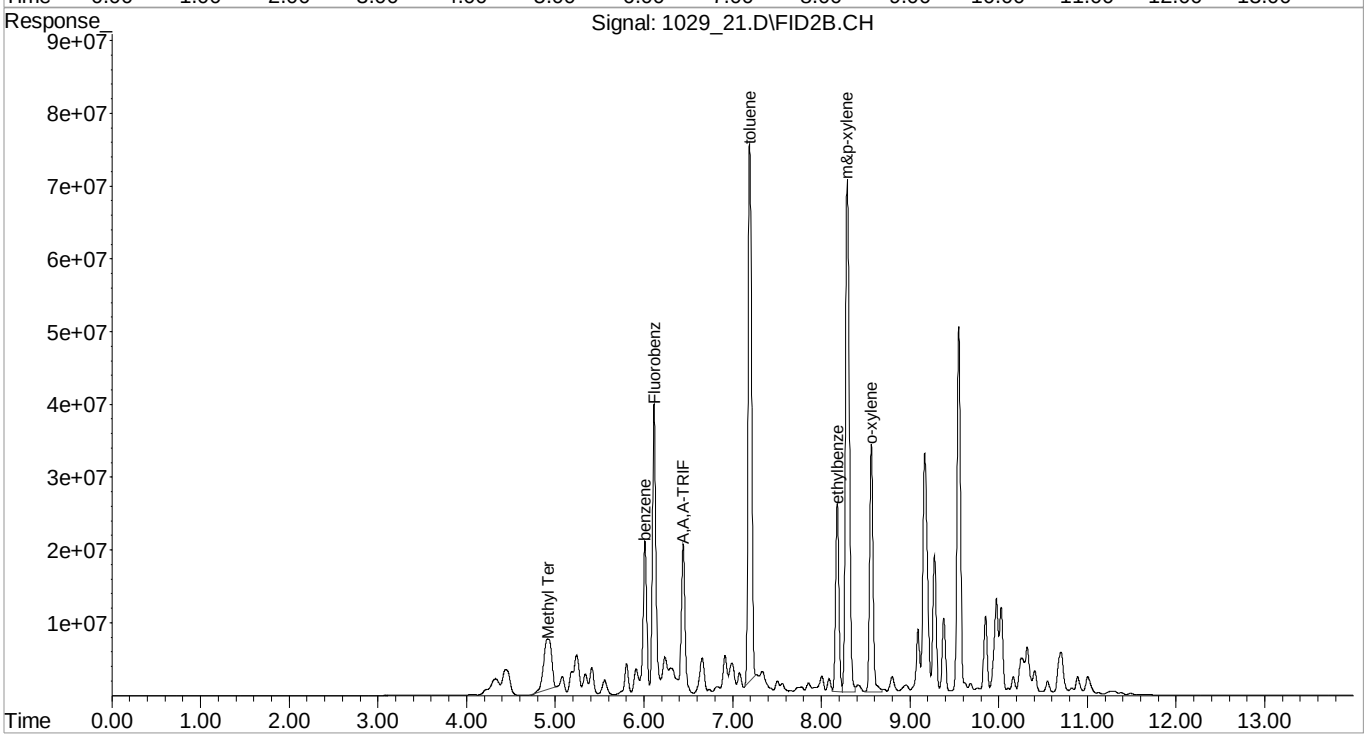
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102914\1029 21.D\FID1A.CH Vial: 21
Signal #2 : C:\MSDCHEM\1\DATA\102914\1029 21.D\FID2B.CH
Acq On : 10-29-2014 05:41:57 PM Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 29 21:58 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.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 : VOCGC12
Computer Name : VOCCOMPX

Released By : Ben Baker
Date Released : 10/29/2014 10:01:59 PM

Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1029_01	INSTBLK	BG12H21N						1	1	10/29/14 0918	"soil SURIS14F10114"
2	1029_02	ICV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/29/14 0939	"soil SURIS14F10114"
3	1029_03	LCSGRO	BG12H21N	WG751264	GRO	SS			1	1	10/29/14 1026	"soil SURIS14F10114/SPK14J27633"
4	1029_04	LCSDGRO	BG12H21N	WG751264	GRO	SS			1	1	10/29/14 1047	"soil SURIS14F10114/SPK14J27633"
5	1029_05	MSGRO	BG12H21N	WG751264	GRO	SS			5	5	10/29/14 1137	"soil SURIS14F10114/SPK14J27633"
6	1029_06	MSDGRO	BG12H21N	WG751264	GRO	SS			5	5	10/29/14 1158	"soil SURIS14F10114/SPK14J27633"
7	1029_07	INSTBLK	BG12H21N						1	1	10/29/14 1218	"soil SURIS14F10114"
8	1029_08	BLANK	BG12H21N	WG751264	GRO	SS			1	1	10/29/14 1239	"soil SURIS14F10114"
9	1029_09	L729965-01	BG12H21N	WG751264	GROOH	SS	ARCADISBP	CA	5	5	10/29/14 1316	"soil SURIS14F10114"
10	1029_10	L729012-05	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	19.75	19.75	10/29/14 1336	"soil SURIS14F10114"
11	1029_11	L729012-06	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	1	0.91	10/29/14 1357	"soil SURIS14F10114"
12	1029_12	L729012-07	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	20.5	20.5	10/29/14 1418	"soil SURIS14F10114"
13	1029_13	L729021-01	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	1	0.81	10/29/14 1446	"soil SURIS14F10114"
14	1029_14	L729026-05	BG12H21N	WG751264	GRO	SS	URSTAZ	NM	1	0.9	10/29/14 1506	"soil SURIS14F10114"
15	1029_15	L729339-18	BG12H21N	WG751264	GRO	SS	PSIPPA	WV	5	5	10/29/14 1537	"soil SURIS14F10114"
16	1029_16	L729671-34	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 1558	"soil SURIS14F10114"
17	1029_17	L729671-35	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 1618	"soil SURIS14F10114"
18	1029_18	L729671-36	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 1639	"soil SURIS14F10114"
19	1029_19	INSTBLK	BG12H21N						1	1	10/29/14 1700	"soil SURIS14F10114"
20	1029_20	RT	BG12H21N						1	1	10/29/14 1721	"soil SURIS14F10114"
21	1029_21	CCV GRO 5.5G PPM 14J27632	BG12H21N						1	1	10/29/14 1741	"soil SURIS14F10114"
22	1029_22	INSTBLK	BG12H21N						1	1	10/29/14 1818	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : Ben Baker
Date Released : 10/29/2014 10:01:59 PM
Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1029_23	L729671-37	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 1839	"soil SURIS14F10114"
24	1029_24	L729671-38	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 1859	"soil SURIS14F10114"
25	1029_25	L729671-39	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 1920	"soil SURIS14F10114"
26	1029_26	L729671-40	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 1941	"soil SURIS14F10114"
27	1029_27	L729671-41	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 2001	"soil SURIS14F10114"
28	1029_28	L729671-42	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 2022	"soil SURIS14F10114"
29	1029_29	L729671-43	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 2043	"soil SURIS14F10114"
30	1029_30	L729671-44	BG12H21N	WG751264	GROCA	SS	TETRAHTX	CA	5	5	10/29/14 2104	"soil SURIS14F10114"
31	1029_31	L729988-01	BG12H21N	WG751264	GROOH	SS	SMECNC	OH	5	5	10/29/14 2125	"soil SURIS14F10114"
32	1029_32	L730025-02	BG12H21N	WG751264	GRO	SS	GENESMO	MO	435	435	10/29/14 2145	"soil SURIS14F10114"

Calibration

Initial Calibration Raw Data

Instrument ID	: VOCGC10	Review Protocol	: AK
Method	: BG10I24N	Review Method	: AK101

Data Released By: Ben Baker

24-SEP-2014 09:34:38 PM
Date

Analyst Comments:

Linear Regression Curve Fit has been used for calibrating TPHG C5 - C12-1, TPHG C6 - C12-1, TPHGAK C6 to C10-1 & TPH (GC/FID) Low Fraction-1. %Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(FID)-1.

Initial Calibration Raw Data

Instrument ID	: VOCGC10	Review Protocol	: AZ
Method	: BG10I24N	Review Method	: GROAZ

Data Released By: Ben Baker

24-SEP-2014 09:34:38 PM
Date

Analyst Comments:

Linear Regression Curve Fit has been used for calibrating TPHG C5 - C12-1, TPHG C6 - C12-1, TPHGAK C6 to C10-1 & TPH (GC/FID) Low Fraction-1. %Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(FID)-1.

Initial Calibration Raw Data

Instrument ID	: VOCGC10	Review Protocol	: IN
Method	: BG10I24N	Review Method	: 8015D

Data Released By: Ben Baker

24-SEP-2014 09:35:00 PM
Date

Analyst Comments:

Linear Regression Curve Fit has been used for calibrating TPHG C5 - C12-1, TPHG C6 - C12-1, TPHGAK C6 to C10-1 & TPH (GC/FID) Low Fraction-1.

Initial Calibration Raw Data

Instrument ID	: VOCGC10	Review Protocol	: SW846
Method	: BG10I24N	Review Method	: 8015-8021

Data Released By: Ben Baker

24-SEP-2014 09:35:17 PM
Date

Analyst Comments:

Linear Regression Curve Fit has been used for calibrating TPHG C5 - C12-1, TPHG C6 - C12-1, TPHGAK C6 to C10-1 & TPH (GC/FID) Low Fraction-1. %Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(FID)-1.

Instrument: VOCGC10
Method: BG10I24N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0924_04.D	0.5	9/24/2014 10:25:00 AM
0924_05.D	1	9/24/2014 10:47:00 AM
0924_06.D	5	9/24/2014 11:10:00 AM
0924_07.D	10	9/24/2014 11:32:00 AM
0924_08.D	25	9/24/2014 11:54:00 AM
0924_09.D	50	9/24/2014 12:17:00 PM
0924_10.D	100	9/24/2014 12:39:00 PM
0924_11.D	150	9/24/2014 1:01:00 PM
0924_12.D	200	9/24/2014 1:24:00 PM
0924_13.D	250	9/24/2014 1:46:00 PM
0924_18.D	.05G	9/24/2014 3:38:00 PM
0924_19.D	.11G	9/24/2014 4:00:00 PM
0924_20.D	.55G	9/24/2014 4:23:00 PM
0924_21.D	1.1G	9/24/2014 4:45:00 PM
0924_22.D	2.7G	9/24/2014 5:07:00 PM
0924_23.D	5.5G	9/24/2014 5:30:00 PM
0924_24.D	11G	9/24/2014 5:52:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC10
Computer Name : VOCCOMPV

Released By : Ben Baker
Date Released : 9/24/2014 9:35:34 PM

Run ID : 092414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0924_01	INSTBLK	BG10I24N						1	1	09/24/14 0919	"soil ISURIS13I06372"
2	0924_04	STD BTEX .5 PPM 14G09861	BG10I24N						1	1	09/24/14 1025	"soil ISURIS13I06372"
3	0924_05	STD BTEX 1 PPM 14G09861	BG10I24N						1	1	09/24/14 1047	"soil ISURIS13I06372"
4	0924_06	STD BTEX 5 PPM 14G09861	BG10I24N						1	1	09/24/14 1110	"soil ISURIS13I06372"
5	0924_07	STD BTEX 10 PPM 14G09861	BG10I24N						1	1	09/24/14 1132	"soil ISURIS13I06372"
6	0924_08	STD BTEX 25 PPM 14G09861	BG10I24N						1	1	09/24/14 1154	"soil ISURIS13I06372"
7	0924_09	MSTD BTEX 50 PPM 14G09861	BG10I24N						1	1	09/24/14 1217	"soil ISURIS13I06372"
8	0924_10	STD BTEX 100 PPM 14G09861	BG10I24N						1	1	09/24/14 1239	"soil ISURIS13I06372"
9	0924_11	STD BTEX 150 PPM 14G09861	BG10I24N						1	1	09/24/14 1301	"soil ISURIS13I06372"
10	0924_12	STD BTEX 200 PPM 14G09861	BG10I24N						1	1	09/24/14 1324	"soil ISURIS13I06372"
11	0924_13	STD BTEX 250 PPM 14G09861	BG10I24N						1	1	09/24/14 1346	"soil ISURIS13I06372"
12	0924_14	INSTBLK	BG10I24N						1	1	09/24/14 1409	"soil ISURIS13I06372"
13	0924_15	SSCV BTEX 50 PPB 14G09864	BG10I24N						1	1	09/24/14 1431	"soil ISURIS13I06372"
14	0924_16	INSTBLK	BG10I24N						1	1	09/24/14 1453	"soil ISURIS13I06372"
15	0924_17	INSTBLK	BG10I24N						1	1	09/24/14 1516	"soil ISURIS13I06372"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC10
Computer Name : VOCCOMPV
Released By : Ben Baker
Date Released : 9/24/2014 9:35:34 PM
Run ID : 092414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	0924_18	STD GRO .055 PPM 14I24980	BG10I24N						1	1	09/24/14 1538	"soil ISURIS13I06372"
17	0924_19	STD GRO .11 PPM 14I24980	BG10I24N						1	1	09/24/14 1600	"soil ISURIS13I06372"
18	0924_20	STD GRO .55 PPM 14I24980	BG10I24N						1	1	09/24/14 1623	"soil ISURIS13I06372"
19	0924_21	STD GRO 1.1 PPM 14I24980	BG10I24N						1	1	09/24/14 1645	"soil ISURIS13I06372"
20	0924_22	STD GRO 2.75 PPM 14I24980	BG10I24N						1	1	09/24/14 1707	"soil ISURIS13I06372"
21	0924_23	MSTD GRO 5.5G PPM 14I24980	BG10I24N						1	1	09/24/14 1730	"soil ISURIS13I06372"
22	0924_24	STD GRO 11 PPM 14I24980	BG10I24N						1	1	09/24/14 1752	"soil ISURIS13I06372"
23	0924_25	INSTBLK	BG10I24N						1	1	09/24/14 1814	"soil ISURIS13I06372"
24	0924_26	SSCV GRO 5.5G PPM 14I24979	BG10I24N						1	1	09/24/14 1837	"soil ISURIS13I06372"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC10	Review Method	: AK101	Released By	: Ben Baker
Method	: BG10I24N	Review Protocol	: AK	Released On	: 9/24/2014 9:35:34 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG10I24N -- ICal Updated Time: Wed Sep 24 21:31:20 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C5 - C12	1											1345	1174	1059	1079	1010	946	919	1076	13.57	0.999	0
TPHG C6 - C12	1											1291	1147	1033	1051	982	919	893	1045	13.19	0.999	0
TPHGAK C6 to C10	1											995.7	905.5	845.5	854.2	794.9	743.3	722.8	837.4	11.31	0.999	0
TPH (GC/FID) Low Fraction	1											1055	961	899	908	845	789	766	889	11.29	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.754	0.75	0.763	0.763	0.794	0.846	0.945	0.802	8.88	0.089	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.53	0.531	0.527	0.528	0.527	0.521	0.517	0.514	0.512								0.524	1.35	0.014	1
Methyl Tert-Butyl Ether	2	0.459	0.516	0.51	0.537	0.49	0.489	0.488	0.478	0.468	0.456								0.489	5.25	0.053	1
benzene	2	1.947	2.1	1.957	2.036	1.871	1.851	1.8	1.772	1.722	1.658								1.872	7.46	0.075	1
toluene	2	1.879	2.002	1.939	2.023	1.848	1.817	1.751	1.706	1.646	1.572								1.818	8.24	0.082	1
ethylbenzene	2	1.64	1.781	1.722	1.798	1.643	1.61	1.545	1.5	1.438	1.365								1.604	8.93	0.089	1
m&p-xylene	2	1.943	2.057	1.944	2.011	1.819	1.757	1.644	1.559	1.468	1.37								1.757	13.6	0.136	1
o-xylene	2	1.755	1.801	1.687	1.749	1.6	1.567	1.509	1.465	1.406	1.336								1.588	10.03	0.1	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC10	Review Method	: GROAZ	Released By	: Ben Baker
Method	: BG10I24N	Review Protocol	: AZ	Released On	: 9/24/2014 9:34:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG10I24N -- ICal Updated Time: Wed Sep 24 21:31:20 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C5 - C12	1											1345	1174	1059	1079	1010	946	919	1076	13.57	0.999	0
TPHG C6 - C12	1											1291	1147	1033	1051	982	919	893	1045	13.19	0.999	0
TPHGAK C6 to C10	1											995.7	905.5	845.5	854.2	794.9	743.3	722.8	837.4	11.31	0.999	0
TPH (GC/FID) Low Fraction	1											1055	961	899	908	845	789	766	889	11.29	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.754	0.75	0.763	0.763	0.794	0.846	0.945	0.802	8.88	0.089	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.53	0.531	0.527	0.528	0.527	0.521	0.517	0.514	0.512								0.524	1.35	0.014	1
Methyl Tert-Butyl Ether	2	0.459	0.516	0.51	0.537	0.49	0.489	0.488	0.478	0.468	0.456								0.489	5.25	0.053	1
benzene	2	1.947	2.1	1.957	2.036	1.871	1.851	1.8	1.772	1.722	1.658								1.872	7.46	0.075	1
toluene	2	1.879	2.002	1.939	2.023	1.848	1.817	1.751	1.706	1.646	1.572								1.818	8.24	0.082	1
ethylbenzene	2	1.64	1.781	1.722	1.798	1.643	1.61	1.545	1.5	1.438	1.365								1.604	8.93	0.089	1
m&p-xylene	2	1.943	2.057	1.944	2.011	1.819	1.757	1.644	1.559	1.468	1.37								1.757	13.6	0.136	1
o-xylene	2	1.755	1.801	1.687	1.749	1.6	1.567	1.509	1.465	1.406	1.336								1.588	10.03	0.1	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC10	Review Method	: 8015D	Released By	: Ben Baker
Method	: BG10I24N	Review Protocol	: IN	Released On	: 9/24/2014 9:35:00 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG10I24N -- ICal Updated Time: Wed Sep 24 21:31:20 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C5 - C12	1											1345	1174	1059	1079	1010	946	919	1076	13.57	0.999	0
TPHG C6 - C12	1											1291	1147	1033	1051	982	919	893	1045	13.19	0.999	0
TPHGAK C6 to C10	1											995.7	905.5	845.5	854.2	794.9	743.3	722.8	837.4	11.31	0.999	0
TPH (GC/FID) Low Fraction	1											1055	961	899	908	845	789	766	889	11.29	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.754	0.75	0.763	0.763	0.794	0.846	0.945	0.802	8.88	0.089	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.53	0.531	0.527	0.528	0.527	0.521	0.517	0.514	0.512								0.524	1.35	0.014	1
Methyl Tert-Butyl Ether	2	0.459	0.516	0.51	0.537	0.49	0.489	0.488	0.478	0.468	0.456								0.489	5.25	0.053	1
benzene	2	1.947	2.1	1.957	2.036	1.871	1.851	1.8	1.772	1.722	1.658								1.872	7.46	0.075	1
toluene	2	1.879	2.002	1.939	2.023	1.848	1.817	1.751	1.706	1.646	1.572								1.818	8.24	0.082	1
ethylbenzene	2	1.64	1.781	1.722	1.798	1.643	1.61	1.545	1.5	1.438	1.365								1.604	8.93	0.089	1
m&p-xylene	2	1.943	2.057	1.944	2.011	1.819	1.757	1.644	1.559	1.468	1.37								1.757	13.6	0.136	1
o-xylene	2	1.755	1.801	1.687	1.749	1.6	1.567	1.509	1.465	1.406	1.336								1.588	10.03	0.1	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC10	Review Method	: 8015-8021	Released By	: Ben Baker
Method	: BG10I24N	Review Protocol	: SW846	Released On	: 9/24/2014 9:35:17 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG10I24N -- ICal Updated Time: Wed Sep 24 21:31:20 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C5 - C12	1											1345	1174	1059	1079	1010	946	919	1076	13.57	0.999	0
TPHG C6 - C12	1											1291	1147	1033	1051	982	919	893	1045	13.19	0.999	0
TPHGAK C6 to C10	1											995.7	905.5	845.5	854.2	794.9	743.3	722.8	837.4	11.31	0.999	0
TPH (GC/FID) Low Fraction	1											1055	961	899	908	845	789	766	889	11.29	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.754	0.75	0.763	0.763	0.794	0.846	0.945	0.802	8.88	0.089	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.53	0.531	0.527	0.528	0.527	0.521	0.517	0.514	0.512								0.524	1.35	0.014	1
Methyl Tert-Butyl Ether	2	0.459	0.516	0.51	0.537	0.49	0.489	0.488	0.478	0.468	0.456								0.489	5.25	0.053	1
benzene	2	1.947	2.1	1.957	2.036	1.871	1.851	1.8	1.772	1.722	1.658								1.872	7.46	0.075	1
toluene	2	1.879	2.002	1.939	2.023	1.848	1.817	1.751	1.706	1.646	1.572								1.818	8.24	0.082	1
ethylbenzene	2	1.64	1.781	1.722	1.798	1.643	1.61	1.545	1.5	1.438	1.365								1.604	8.93	0.089	1
m&p-xylene	2	1.943	2.057	1.944	2.011	1.819	1.757	1.644	1.559	1.468	1.37								1.757	13.6	0.136	1
o-xylene	2	1.755	1.801	1.687	1.749	1.6	1.567	1.509	1.465	1.406	1.336								1.588	10.03	0.1	1

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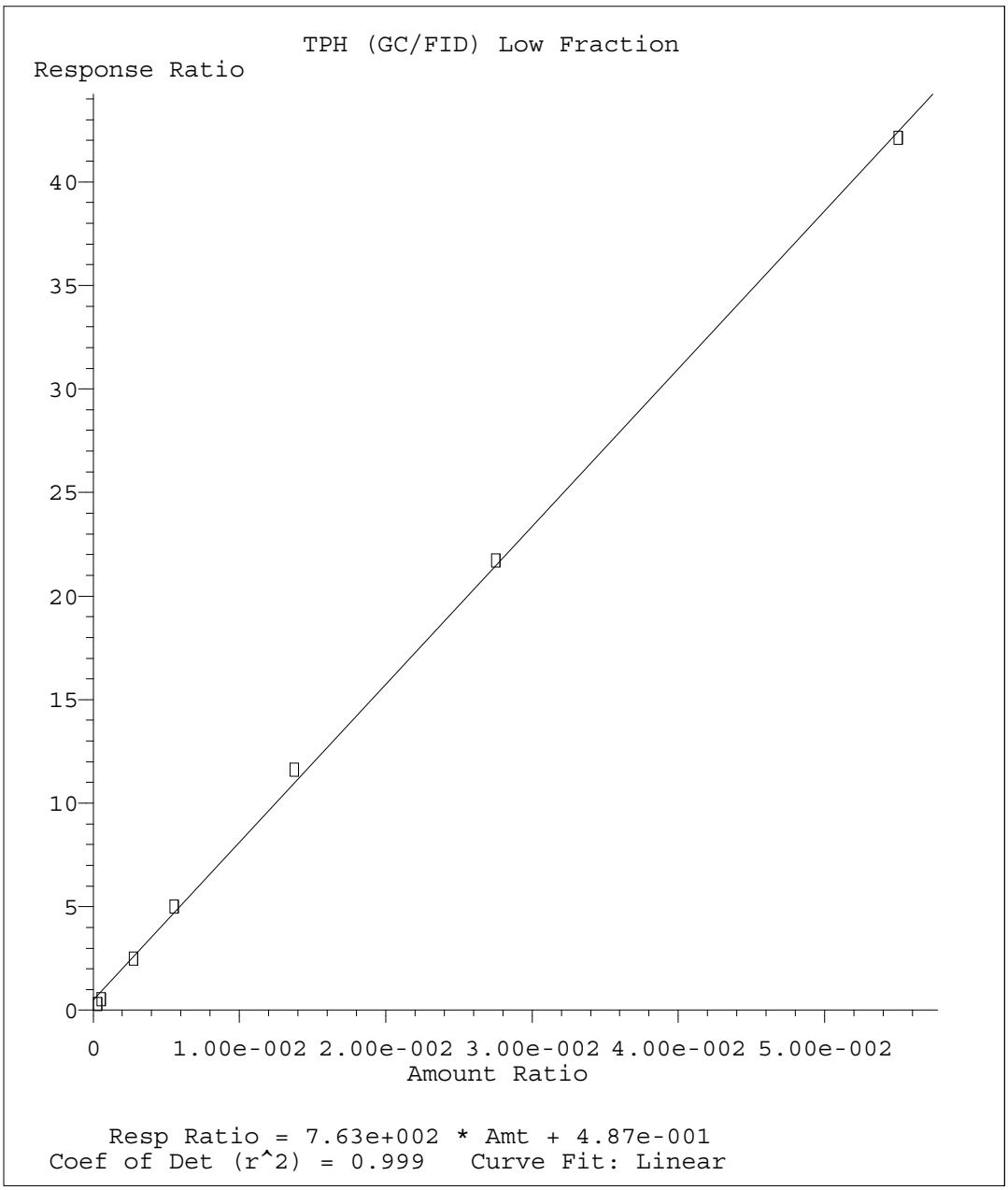
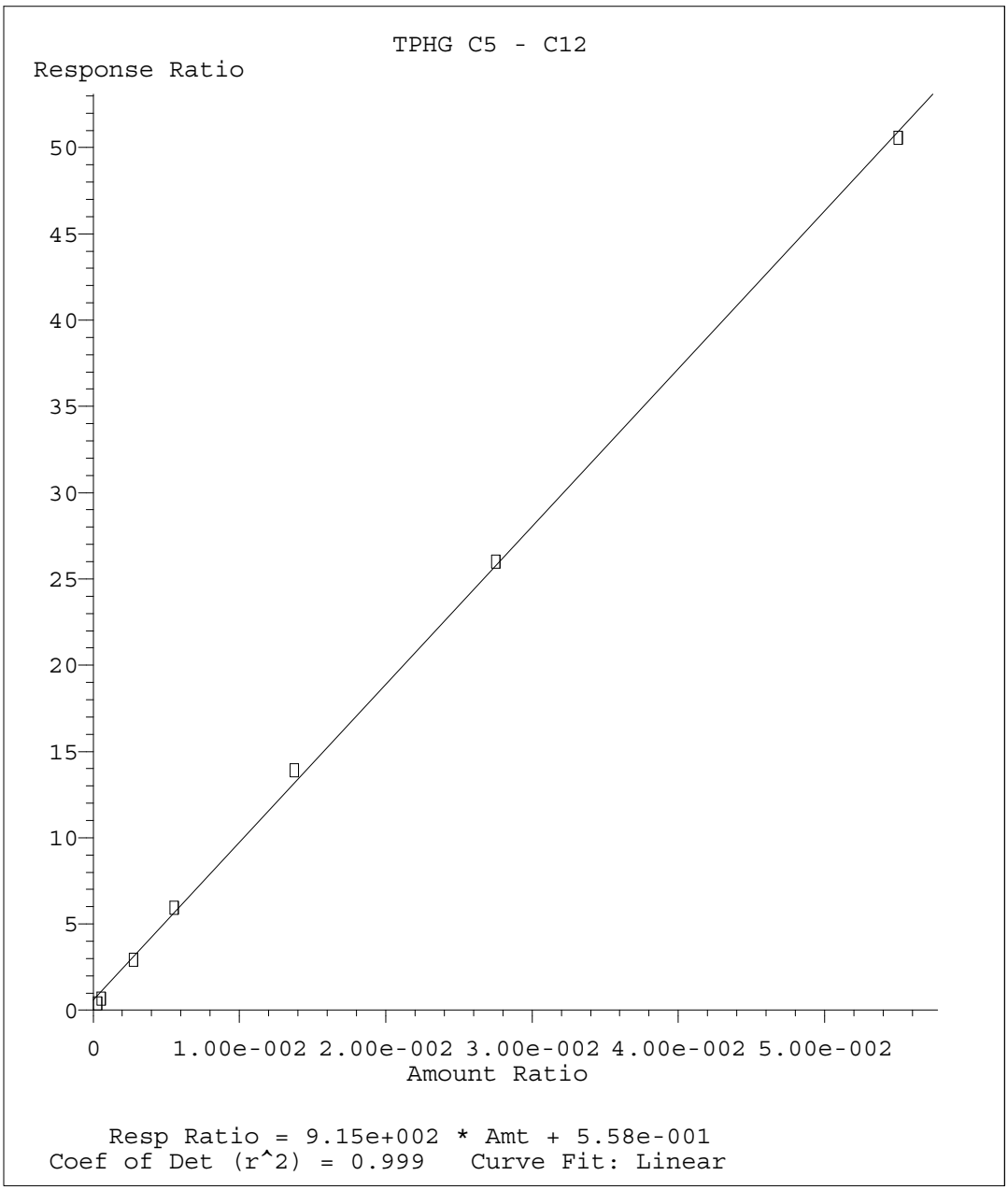
Manual Integrations - Audit Trail

Instrument ID	: VOCGC10	Method	: BG10I24N
Released By	: Ben Baker	Review Method	: AK101
Released On	: 9/24/2014 9:35:50 PM	Review Protocol	: AK

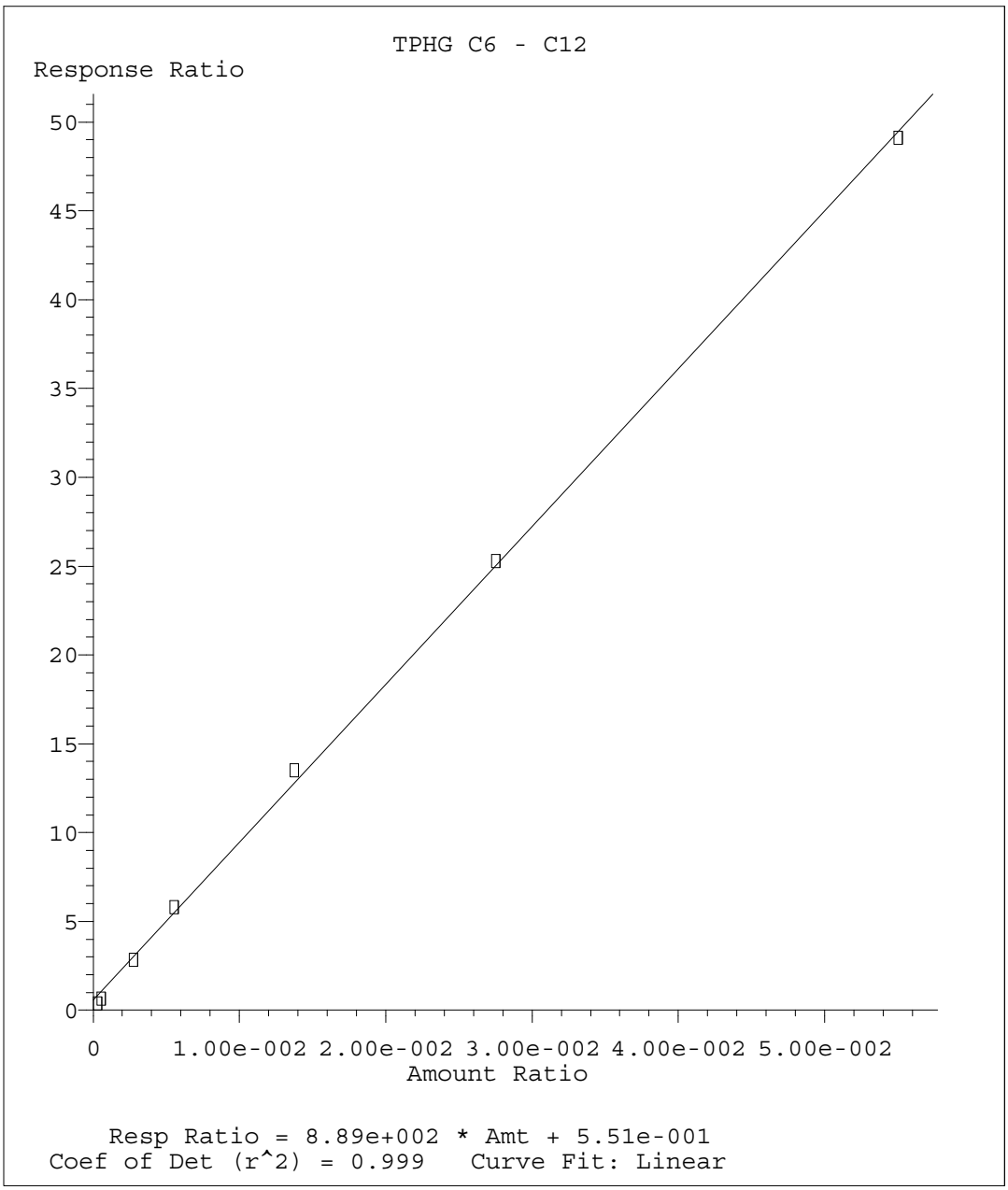
File ID	Level ID	Parameter	Old Conc.	New Conc.	Old Resp.	New Resp.



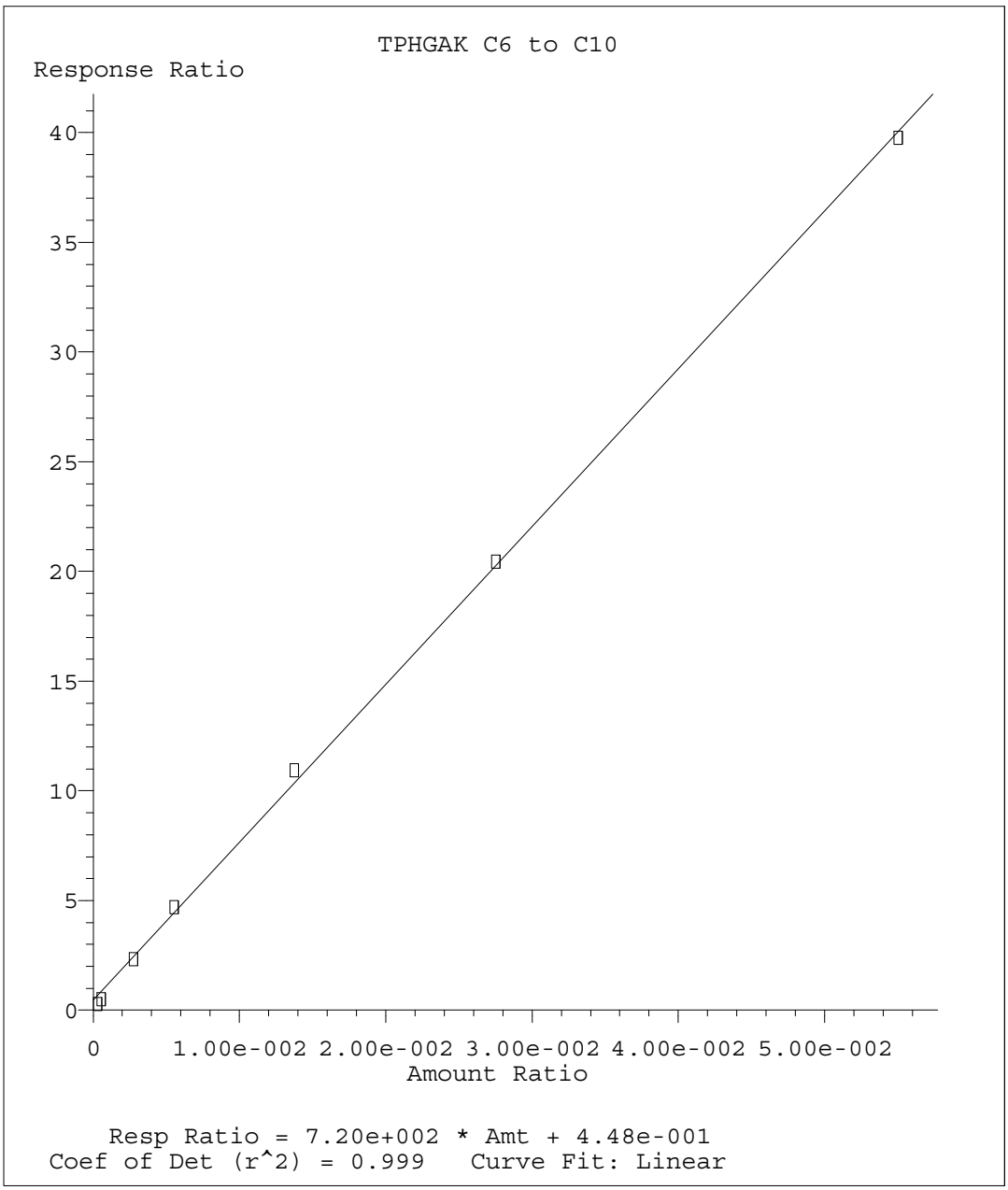
Method Name: C:\HPCHEM\1\METHODS\BG10I24N.M



Method Name: C:\HPCHEM\1\METHODS\BG10I24N.M



Method Name: C:\HPCHEM\1\METHODS\BG10I24N.M



Method Name: C:\HPCHEM\1\METHODS\BG10I24N.M

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC10	CCV File ID	: 0924_09	Tune File ID	:
Run ID	: 092414	CCV Analyzed At	: 09/24/14 1217	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)										
0924_04	STD BTEX .5 PPM 14G09861	1			0	0	101										
0924_05	STD BTEX 1 PPM 14G09861	1			0	0	101										
0924_06	STD BTEX 5 PPM 14G09861	1			0	0	103										
0924_07	STD BTEX 10 PPM 14G09861	1			0	0	103										
0924_08	STD BTEX 25 PPM 14G09861	1			0	0	104										
0924_09	MSTD BTEX 50 PPM 14G09861	1			0	0	105										
0924_10	STD BTEX 100 PPM 14G09861	1			0	0	105										
0924_11	STD BTEX 150 PPM 14G09861	1			0	0	105										
0924_12	STD BTEX 200 PPM 14G09861	1			0	0	105										
0924_13	STD BTEX 250 PPM 14G09861	1			0	0	106										
SECOND COLUMN																	
0924_04	STD BTEX .5 PPM 14G09861	1			1.40684E+09	0	101										
0924_05	STD BTEX 1 PPM 14G09861	1			1.388718E+09	0	101										
0924_06	STD BTEX 5 PPM 14G09861	1			1.404218E+09	0	103										
0924_07	STD BTEX 10 PPM 14G09861	1			1.385068E+09	0	103										
0924_08	STD BTEX 25 PPM 14G09861	1			1.405634E+09	0	104										
0924_09	MSTD BTEX 50 PPM 14G09861	1			1.407788E+09	0	105										
0924_10	STD BTEX 100 PPM 14G09861	1			1.408287E+09	0	105										

IS - SURROGATE SUMMARY REPORT

0924_11	STD BTEX 150 PPM 14G09861	1			1.419641E+09	0	105										
0924_12	STD BTEX 200 PPM 14G09861	1			1.41089E+09	0	105										
0924_13	STD BTEX 250 PPM 14G09861	1			1.430037E+09	0	106										

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	: VOCGC10	CCV File ID	: 0924_23	Tune File ID	:
Run ID	: 092414	CCV Analyzed At	: 09/24/14 1730	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)										
0924_18	STD GRO .055 PPM 14I24980	1			4.177511E+08	89.1	0										
0924_19	STD GRO .11 PPM 14I24980	1			4.21433E+08	89.6	0										
0924_20	STD GRO .55 PPM 14I24980	1			4.277107E+08	92.1	0										
0924_21	STD GRO 1.1 PPM 14I24980	1			4.304924E+08	93	0										
0924_22	STD GRO 2.75 PPM 14I24980	1			4.293582E+08	97.6	0										
0924_23	MSTD GRO 5.5G PPM 14I24980	1			4.435163E+08	105	0										
0924_24	STD GRO 11 PPM 14I24980	1			4.451375E+08	118	0										
SECOND COLUMN																	
0924_18	STD GRO .055 PPM 14I24980	1			0	0	0										
0924_19	STD GRO .11 PPM 14I24980	1			0	0	0										
0924_20	STD GRO .55 PPM 14I24980	1			0	0	0										
0924_21	STD GRO 1.1 PPM 14I24980	1			0	0	0										
0924_22	STD GRO 2.75 PPM 14I24980	1			0	0	0										
0924_23	MSTD GRO 5.5G PPM 14I24980	1			0	0	0										
0924_24	STD GRO 11 PPM 14I24980	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\092414\0924 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID2B.CH
Acq On : 24 Sep 2014 9:19 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

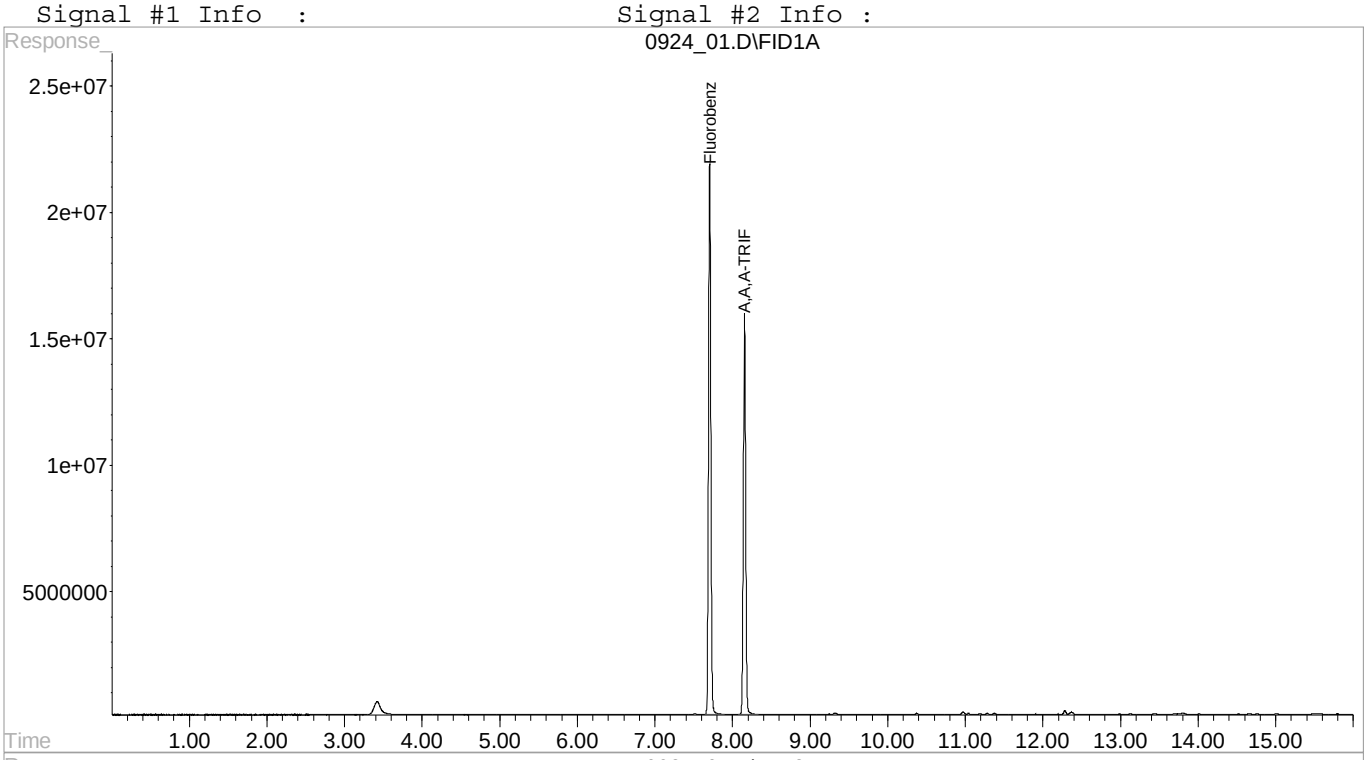
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.70	454837673	200.0000000	ppb
8) I Fluorobenzene #2	7.70	1476310400	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.15	333238434	182.6681137	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 91.33%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.15	768761528	198.8609219	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 99.43%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	52467084	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	47860438	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	25890522	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	27224346	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.55	825437	0.0597495	ppb
12) T,M toluene	9.01	367346	0.0273679	ppb
13) T,M ethylbenzene	10.09	311690	0.0263253	ppb
14) T,M m&p-xylene	10.22	901036	0.0694611	ppb
15) T,M o-xylene	10.49	624517	0.0532929	ppb

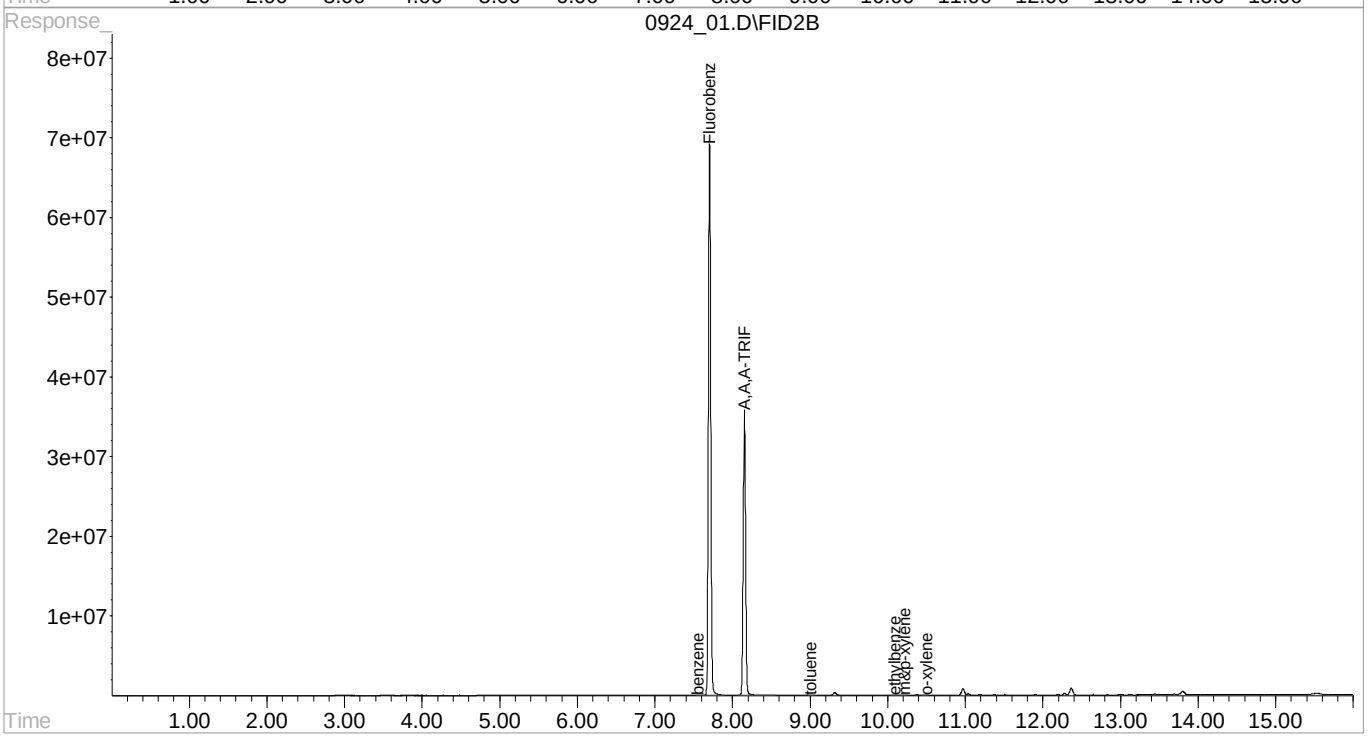
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID2B.CH
Acq On : 24 Sep 2014 9:19 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID2B.CH
Acq On : 24 Sep 2014 9:19 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

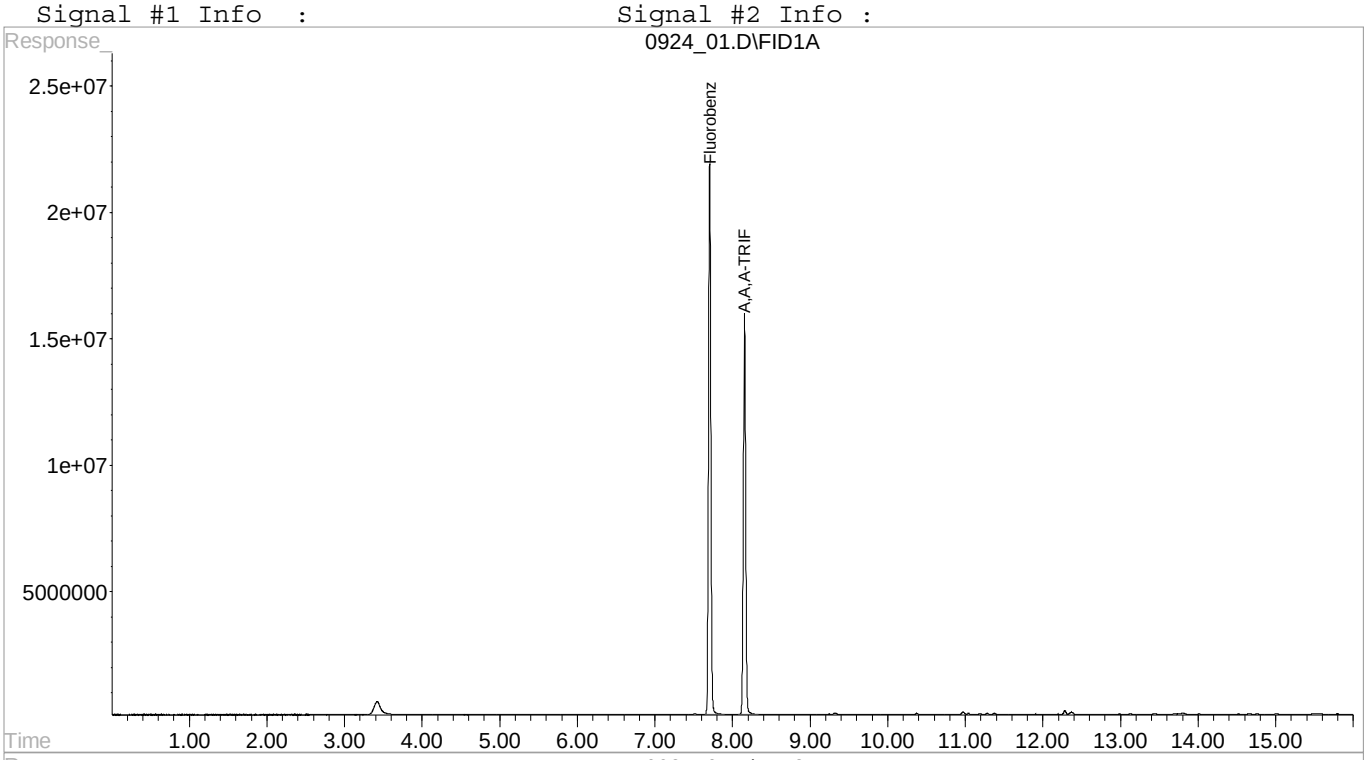
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.70	454837673	200.0000000	ppb
8) I Fluorobenzene #2	7.70	1476310400	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.15	333238434	182.6681137	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 91.33%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.15	768761528	198.8609219	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 99.43%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	52467084	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	47860438	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	25890522	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	27224346	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.55	825437	0.0597495	ppb
12) T,M toluene	9.01	367346	0.0273679	ppb
13) T,M ethylbenzene	10.09	311690	0.0263253	ppb
14) T,M m&p-xylene	10.22	901036	0.0694611	ppb
15) T,M o-xylene	10.49	624517	0.0532929	ppb

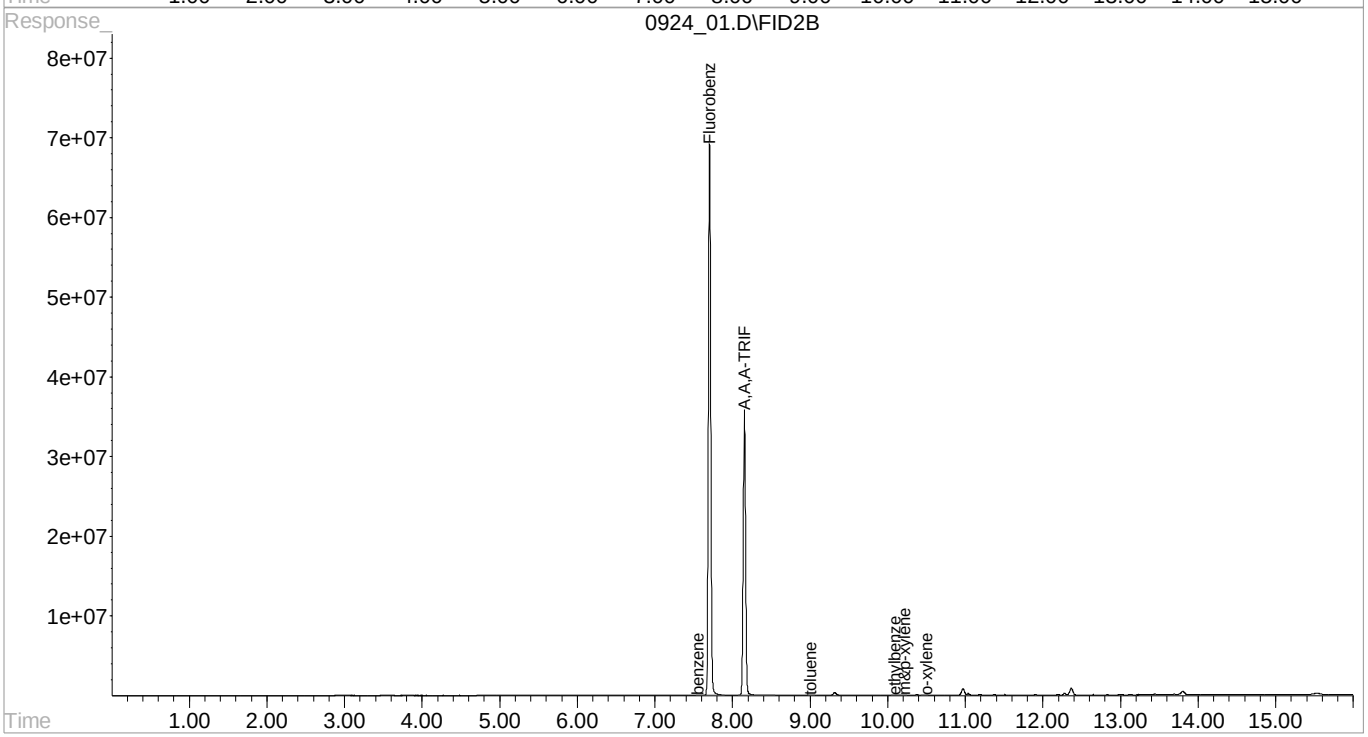
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID2B.CH
Acq On : 24 Sep 2014 9:19 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID2B.CH
Acq On : 24 Sep 2014 9:19 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

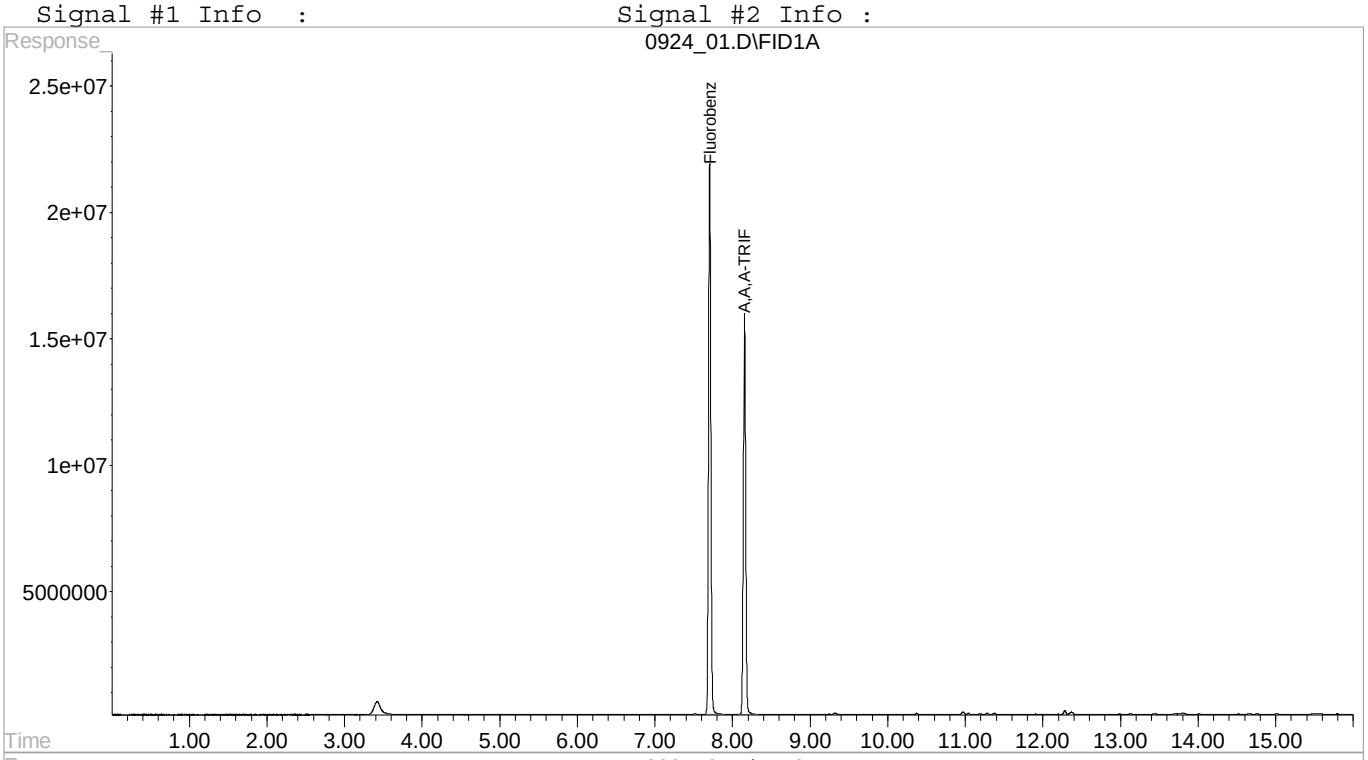
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.70	454837673	200.0000000	ppb
8) I Fluorobenzene #2	7.70	1476310400	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.15	333238434	182.6681137	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 91.33%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.15	768761528	198.8609219	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 99.43%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	52467084	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	47860438	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	25890522	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	27224346	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.55	825437	0.0597495	ppb
12) T,M toluene	9.01	367346	0.0273679	ppb
13) T,M ethylbenzene	10.09	311690	0.0263253	ppb
14) T,M m&p-xylene	10.22	901036	0.0694611	ppb
15) T,M o-xylene	10.49	624517	0.0532929	ppb

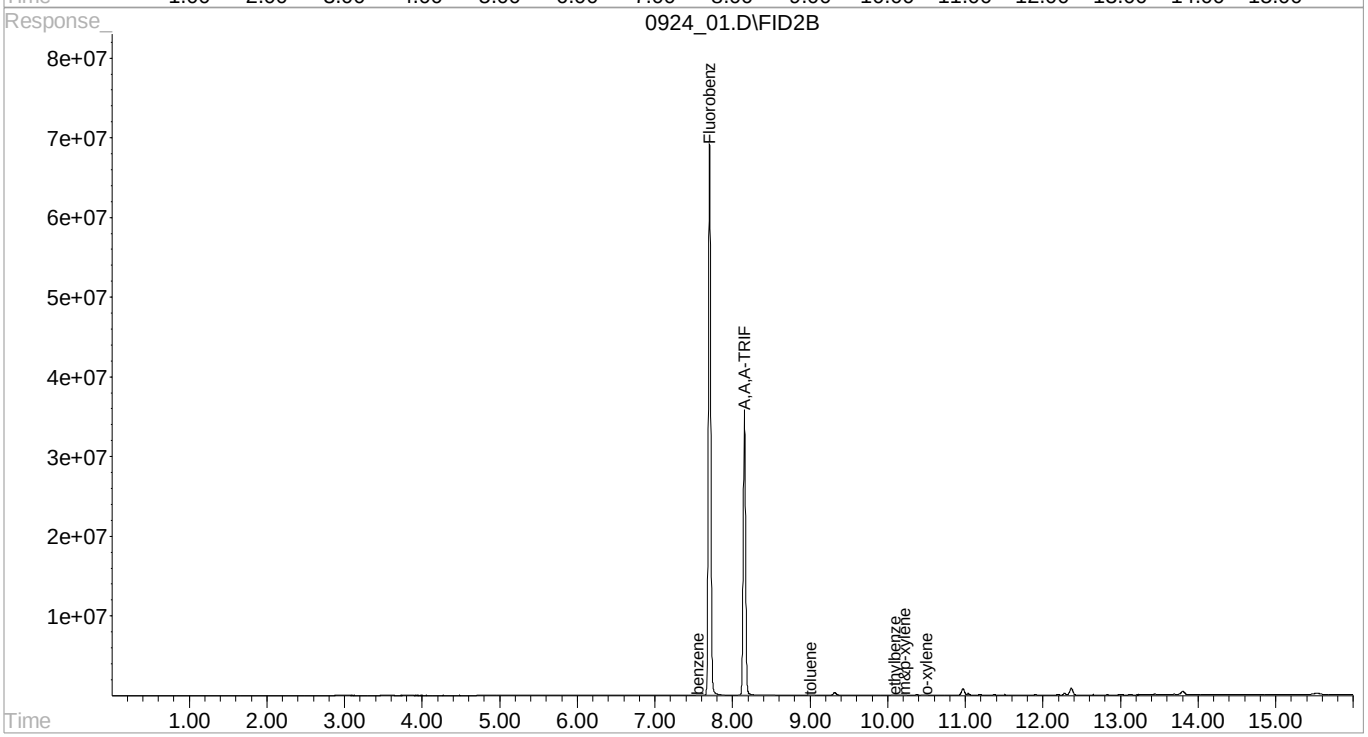
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 01.D\FID2B.CH
Acq On : 24 Sep 2014 9:19 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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	:	VOCGC10	Analysis Date	:	09/24/14 1431	ICal Method	:	AK101
Lab File ID	:	0924_15	Quant Method	:	BG10I24N	ICal Protocol	:	AK

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	1.793562E+08	0.05	0.2	1.411818E+09	0.5081567	104	75	125
benzene	2	6.747471E+08	0.05	0.2	1.411818E+09	1.911711	102	75	125
toluene	2	6.377789E+08	0.05	0.2	1.411818E+09	1.806972	99.4	75	125
ethylbenzene	2	5.616106E+08	0.05	0.2	1.411818E+09	1.59117	99.2	75	125
m&p-xylene	2	1.253269E+09	0.1	0.2	1.411818E+09	1.775397	101	75	125
o-xylene	2	5.463475E+08	0.05	0.2	1.411818E+09	1.547926	97.5	75	125
XYLENES, TOTAL	2	1.799617E+09	0.15	0.2	1.411818E+09	1.699574	99.9	75	125
TPHG C6 - C12	1	1.385111E+09	0	0.2	4.29288E+08	0			
TPH (GC/FID) Low Fraction	1	1.287963E+09	0	0.2	4.29288E+08	0			
TPHG C5 - C12	1	1.388051E+09	0	0.2	4.29288E+08	0			
TPHGAK C6 to C10	1	1.149526E+09	0	0.2	4.29288E+08	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	4.29288E+08	0	0	7.69		
Fluorobenzene-2	1.411818E+09	7.04E+08	2.82E+09	7.69		

Environmental Science Corporation
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SSCV Summary Report

Instrument ID	:	VOCGC10	Analysis Date	:	09/24/14 1431	ICal Method	:	GROAZ
Lab File ID	:	0924_15	Quant Method	:	BG10I24N	ICal Protocol	:	AZ

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	1.793562E+08	0.05	0.2	1.411818E+09	0.5081567	104	80	120
benzene	2	6.747471E+08	0.05	0.2	1.411818E+09	1.911711	102	80	120
toluene	2	6.377789E+08	0.05	0.2	1.411818E+09	1.806972	99.4	80	120
ethylbenzene	2	5.616106E+08	0.05	0.2	1.411818E+09	1.59117	99.2	80	120
m&p-xylene	2	1.253269E+09	0.1	0.2	1.411818E+09	1.775397	101	80	120
o-xylene	2	5.463475E+08	0.05	0.2	1.411818E+09	1.547926	97.5	80	120
XYLENES, TOTAL	2	1.799617E+09	0.15	0.2	1.411818E+09	1.699574	99.9	80	120
TPHG C6 - C12	1	1.385111E+09	0	0.2	4.29288E+08	0			
TPH (GC/FID) Low Fraction	1	1.287963E+09	0	0.2	4.29288E+08	0			
TPHG C5 - C12	1	1.388051E+09	0	0.2	4.29288E+08	0			
TPHGAK C6 to C10	1	1.149526E+09	0	0.2	4.29288E+08	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	4.29288E+08	0	0	7.69		
Fluorobenzene-2	1.411818E+09	7.04E+08	2.82E+09	7.69		

Environmental Science Corporation
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SSCV Summary Report

Instrument ID	:	VOCGC10	Analysis Date	:	09/24/14 1431	ICal Method	:	8015D
Lab File ID	:	0924_15	Quant Method	:	BG10I24N	ICal Protocol	:	IN

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	1.793562E+08	0.05	0.2	1.411818E+09	0.5081567	104	80	120
benzene	2	6.747471E+08	0.05	0.2	1.411818E+09	1.911711	102	80	120
toluene	2	6.377789E+08	0.05	0.2	1.411818E+09	1.806972	99.4	80	120
ethylbenzene	2	5.616106E+08	0.05	0.2	1.411818E+09	1.59117	99.2	80	120
m&p-xylene	2	1.253269E+09	0.1	0.2	1.411818E+09	1.775397	101	80	120
o-xylene	2	5.463475E+08	0.05	0.2	1.411818E+09	1.547926	97.5	80	120
XYLENES, TOTAL	2	1.799617E+09	0.15	0.2	1.411818E+09	1.699574	99.9	80	120
TPHG C6 - C12	1	1.385111E+09	0	0.2	4.29288E+08	0			
TPH (GC/FID) Low Fraction	1	1.287963E+09	0	0.2	4.29288E+08	0			
TPHG C5 - C12	1	1.388051E+09	0	0.2	4.29288E+08	0			
TPHGAK C6 to C10	1	1.149526E+09	0	0.2	4.29288E+08	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	4.29288E+08	0	0	7.69		
Fluorobenzene-2	1.411818E+09	7.04E+08	2.82E+09	7.69		

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SSCV Summary Report

Instrument ID	:	VOCGC10	Analysis Date	:	09/24/14 1431	ICal Method	:	8015-8021
Lab File ID	:	0924_15	Quant Method	:	BG10I24N	ICal Protocol	:	SW846

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	1.793562E+08	0.05	0.2	1.411818E+09	0.5081567	104	80	120
benzene	2	6.747471E+08	0.05	0.2	1.411818E+09	1.911711	102	80	120
toluene	2	6.377789E+08	0.05	0.2	1.411818E+09	1.806972	99.4	80	120
ethylbenzene	2	5.616106E+08	0.05	0.2	1.411818E+09	1.59117	99.2	80	120
m&p-xylene	2	1.253269E+09	0.1	0.2	1.411818E+09	1.775397	101	80	120
o-xylene	2	5.463475E+08	0.05	0.2	1.411818E+09	1.547926	97.5	80	120
XYLENES, TOTAL	2	1.799617E+09	0.15	0.2	1.411818E+09	1.699574	99.9	80	120
TPHG C6 - C12	1	1.385111E+09	0	0.2	4.29288E+08	0			
TPH (GC/FID) Low Fraction	1	1.287963E+09	0	0.2	4.29288E+08	0			
TPHG C5 - C12	1	1.388051E+09	0	0.2	4.29288E+08	0			
TPHGAK C6 to C10	1	1.149526E+09	0	0.2	4.29288E+08	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	4.29288E+08	0	0	7.69		
Fluorobenzene-2	1.411818E+09	7.04E+08	2.82E+09	7.69		

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 15.D\FID2B.CH
Acq On : 24 Sep 2014 2:31 pm Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:26 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:26:30 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

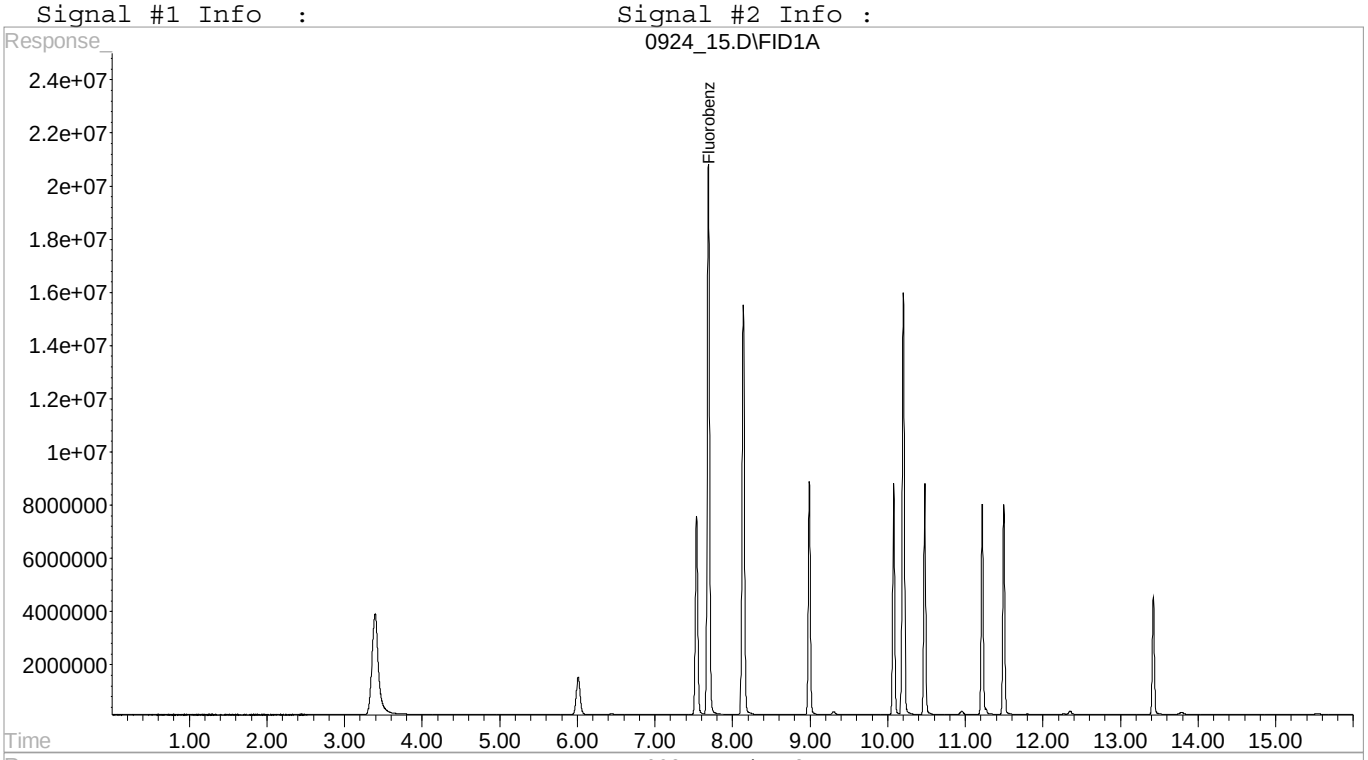
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	429288013	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1411818431	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	322302078	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	747119882	202.0909815	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.05%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	1388051328	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	1385110922	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	1149526309	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	1287962618	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	179356192	51.9512620	ppb
11) T,M benzene	7.53	674747119	51.0728531	ppb
12) T,M toluene	8.99	637778943	49.6861071	ppb
13) T,M ethylbenzene	10.07	561610607	49.6002700	ppb
14) T,M m&p-xylene	10.20	1253269385	101.0281936	ppb
15) T,M o-xylene	10.47	546347507	48.7520180	ppb

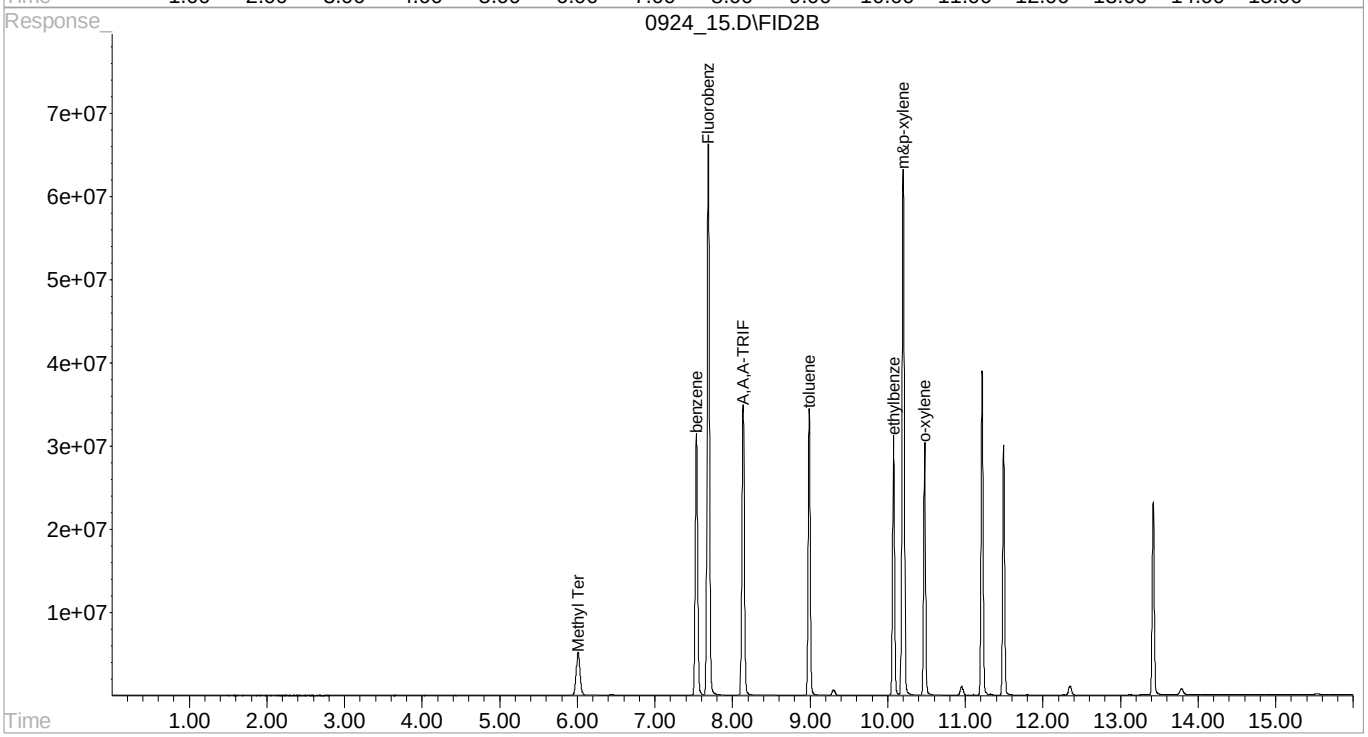
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 15.D\FID2B.CH
Acq On : 24 Sep 2014 2:31 pm Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:26 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:26:30 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 15.D\FID2B.CH
Acq On : 24 Sep 2014 2:31 pm Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:26 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:26:30 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

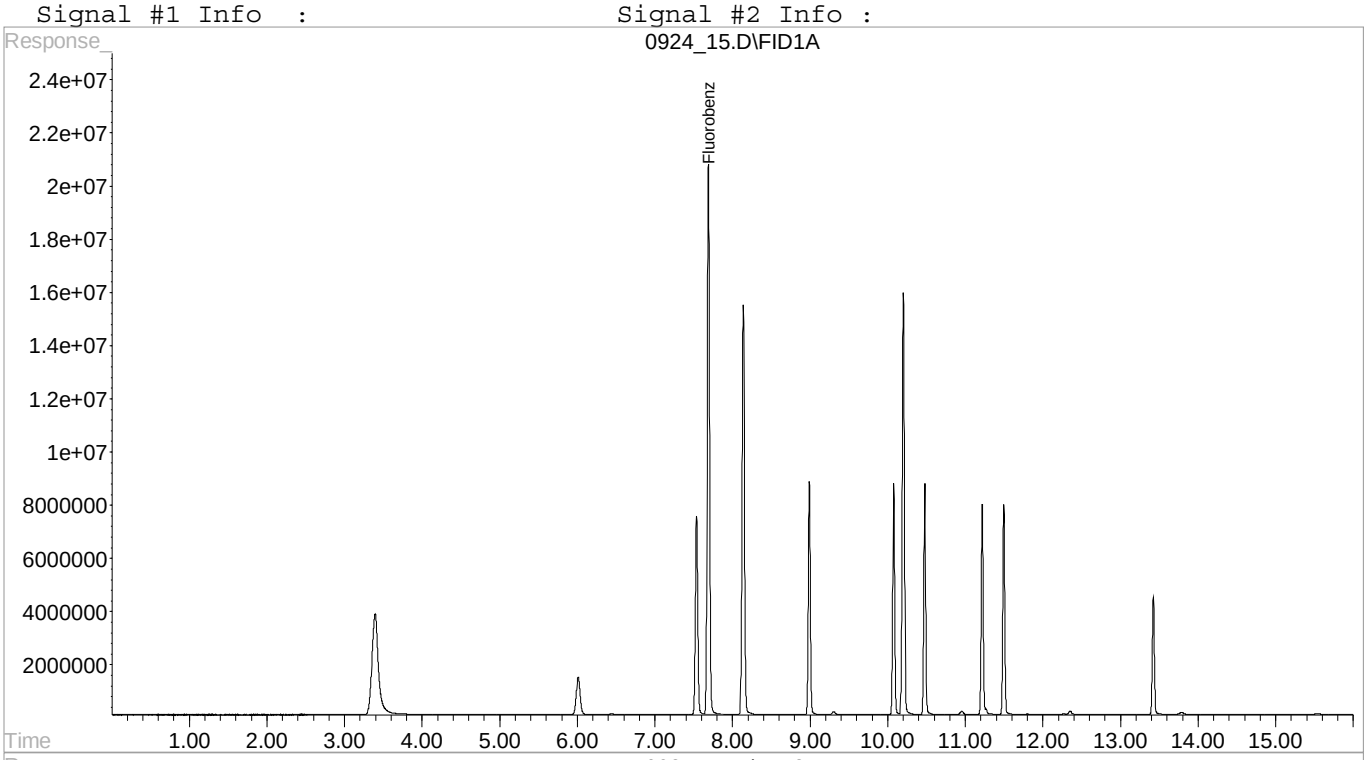
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	429288013	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1411818431	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	322302078	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	747119882	202.0909815	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.05%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	1388051328	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	1385110922	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	1149526309	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	1287962618	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	179356192	51.9512620	ppb
11) T,M benzene	7.53	674747119	51.0728531	ppb
12) T,M toluene	8.99	637778943	49.6861071	ppb
13) T,M ethylbenzene	10.07	561610607	49.6002700	ppb
14) T,M m&p-xylene	10.20	1253269385	101.0281936	ppb
15) T,M o-xylene	10.47	546347507	48.7520180	ppb

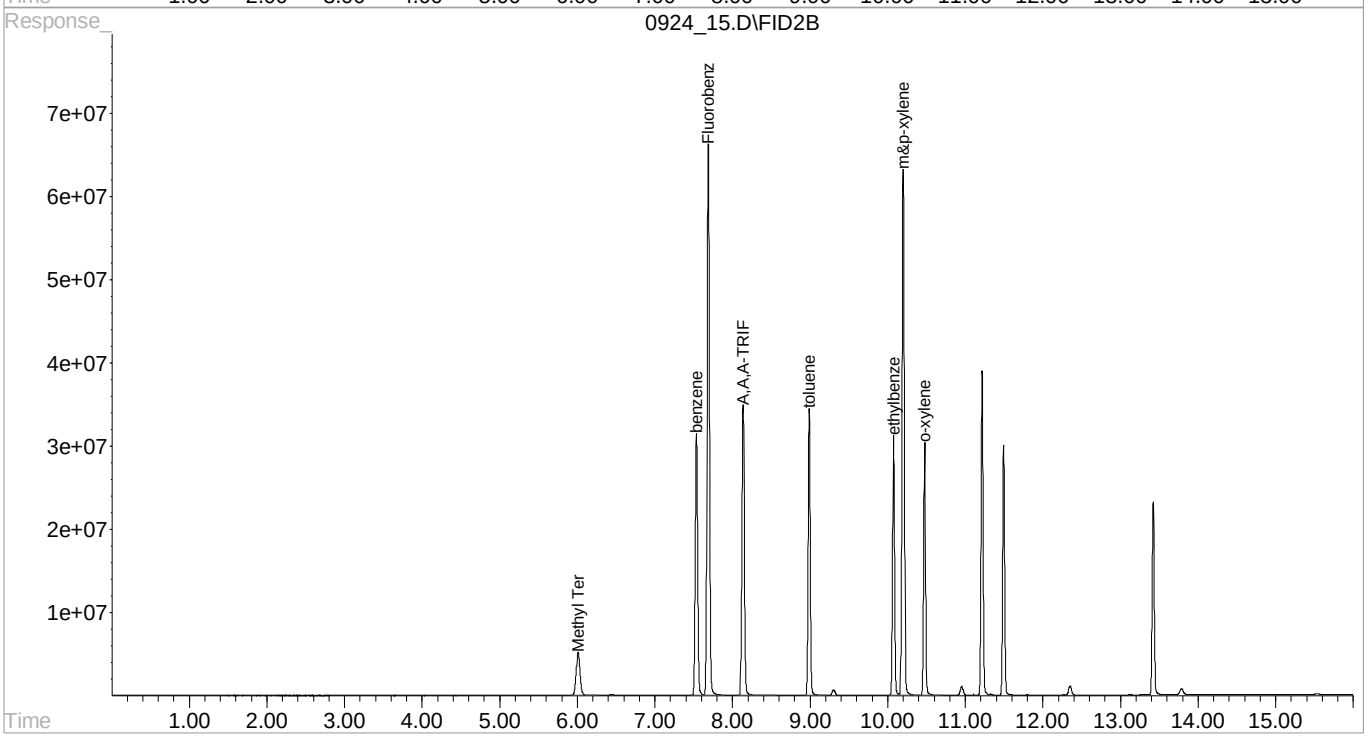
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 15.D\FID2B.CH
Acq On : 24 Sep 2014 2:31 pm Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:26 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:26:30 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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	:	VOCGC10	Analysis Date	:	09/24/14 1837	ICal Method	:	AK101
Lab File ID	:	0924_26	Quant Method	:	BG10I24N	ICal Protocol	:	AK

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	5.163354E+08	0	0.2	1.394897E+09	0			
benzene	2	9.498367E+08	0	0.2	1.394897E+09	0			
toluene	2	4.810584E+09	0	0.2	1.394897E+09	0			
ethylbenzene	2	1.144399E+09	0	0.2	1.394897E+09	0			
m&p-xylene	2	3.98382E+09	0	0.2	1.394897E+09	0			
o-xylene	2	1.54455E+09	0	0.2	1.394897E+09	0			
XYLENES, TOTAL	2	5.52837E+09	0	0.2	1.394897E+09	0			
TPHG C6 - C12	1	9.868222E+09	5.5	0.2	4.296403E+08	0.8352207	91.7	75	125
TPH (GC/FID) Low Fraction	1	9.004792E+09	5.5	0.2	4.296403E+08	0.7621422	97.6	75	125
TPHG C5 - C12	1	1.068199E+10	5.5	0.2	4.296403E+08	0.9040959	96.6	75	125
TPHGAK C6 to C10	1	8.484891E+09	5.5	0.2	4.296403E+08	0.7181391	97.5	75	125

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	4.296403E+08	2.22E+08	8.87E+08	7.69		
Fluorobenzene-2	1.394897E+09	0	0	7.69		

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12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	:	VOCGC10	Analysis Date	:	09/24/14 1837	ICal Method	:	GROAZ
Lab File ID	:	0924_26	Quant Method	:	BG10I24N	ICal Protocol	:	AZ

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	5.163354E+08	0	0.2	1.394897E+09	0			
benzene	2	9.498367E+08	0	0.2	1.394897E+09	0			
toluene	2	4.810584E+09	0	0.2	1.394897E+09	0			
ethylbenzene	2	1.144399E+09	0	0.2	1.394897E+09	0			
m&p-xylene	2	3.98382E+09	0	0.2	1.394897E+09	0			
o-xylene	2	1.54455E+09	0	0.2	1.394897E+09	0			
XYLENES, TOTAL	2	5.52837E+09	0	0.2	1.394897E+09	0			
TPHG C6 - C12	1	9.868222E+09	5.5	0.2	4.296403E+08	0.8352207	91.7	80	120
TPH (GC/FID) Low Fraction	1	9.004792E+09	5.5	0.2	4.296403E+08	0.7621422	97.6	80	120
TPHG C5 - C12	1	1.068199E+10	5.5	0.2	4.296403E+08	0.9040959	96.6	80	120
TPHGAK C6 to C10	1	8.484891E+09	5.5	0.2	4.296403E+08	0.7181391	97.5	80	120

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	4.296403E+08	2.22E+08	8.87E+08	7.69		
Fluorobenzene-2	1.394897E+09	0	0	7.69		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	:	VOCGC10	Analysis Date	:	09/24/14 1837	ICal Method	:	8015D
Lab File ID	:	0924_26	Quant Method	:	BG10I24N	ICal Protocol	:	IN

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	5.163354E+08	0	0.2	1.394897E+09	0			
benzene	2	9.498367E+08	0	0.2	1.394897E+09	0			
toluene	2	4.810584E+09	0	0.2	1.394897E+09	0			
ethylbenzene	2	1.144399E+09	0	0.2	1.394897E+09	0			
m&p-xylene	2	3.98382E+09	0	0.2	1.394897E+09	0			
o-xylene	2	1.54455E+09	0	0.2	1.394897E+09	0			
XYLENES, TOTAL	2	5.52837E+09	0	0.2	1.394897E+09	0			
TPHG C6 - C12	1	9.868222E+09	5.5	0.2	4.296403E+08	0.8352207	91.7	80	120
TPH (GC/FID) Low Fraction	1	9.004792E+09	5.5	0.2	4.296403E+08	0.7621422	97.6	80	120
TPHG C5 - C12	1	1.068199E+10	5.5	0.2	4.296403E+08	0.9040959	96.6	80	120
TPHGAK C6 to C10	1	8.484891E+09	5.5	0.2	4.296403E+08	0.7181391	97.5	80	120

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	4.296403E+08	2.22E+08	8.87E+08	7.69		
Fluorobenzene-2	1.394897E+09	0	0	7.69		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	:	VOCGC10	Analysis Date	:	09/24/14 1837	ICal Method	:	8015-8021
Lab File ID	:	0924_26	Quant Method	:	BG10I24N	ICal Protocol	:	SW846

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	5.163354E+08	0	0.2	1.394897E+09	0			
benzene	2	9.498367E+08	0	0.2	1.394897E+09	0			
toluene	2	4.810584E+09	0	0.2	1.394897E+09	0			
ethylbenzene	2	1.144399E+09	0	0.2	1.394897E+09	0			
m&p-xylene	2	3.98382E+09	0	0.2	1.394897E+09	0			
o-xylene	2	1.54455E+09	0	0.2	1.394897E+09	0			
XYLENES, TOTAL	2	5.52837E+09	0	0.2	1.394897E+09	0			
TPHG C6 - C12	1	9.868222E+09	5.5	0.2	4.296403E+08	0.8352207	91.7	80	120
TPH (GC/FID) Low Fraction	1	9.004792E+09	5.5	0.2	4.296403E+08	0.7621422	97.6	80	120
TPHG C5 - C12	1	1.068199E+10	5.5	0.2	4.296403E+08	0.9040959	96.6	80	120
TPHGAK C6 to C10	1	8.484891E+09	5.5	0.2	4.296403E+08	0.7181391	97.5	80	120

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	4.296403E+08	2.22E+08	8.87E+08	7.69		
Fluorobenzene-2	1.394897E+09	0	0	7.69		

Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 26.D\FID1A.CH   Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 26.D\FID2B.CH
Acq On    : 24 Sep 2014   6:37 pm                    Operator: 621
Sample    : SSCV GRO 5.5g ppm 14I24979               Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

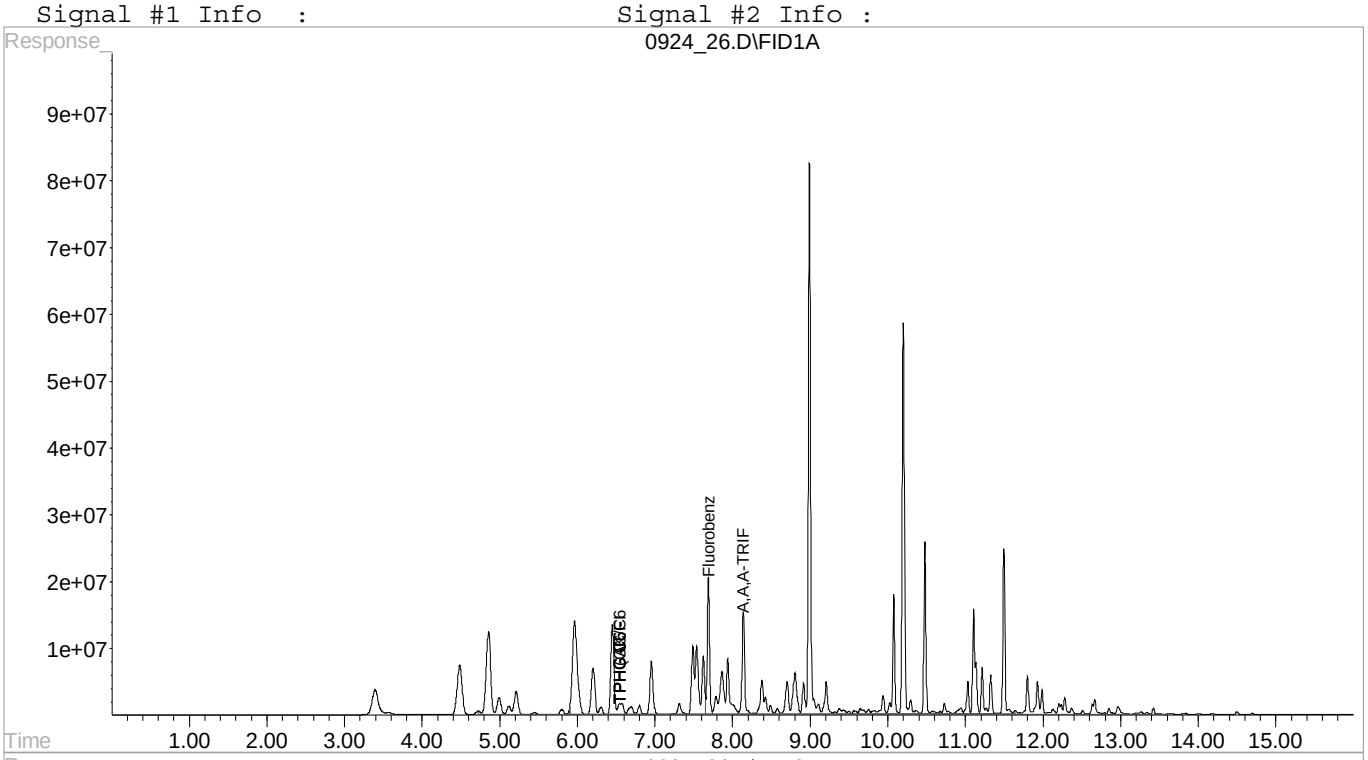
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	429640312	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1394897011	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	349780890	202.9808859 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 101.49%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	817828719	223.9008282 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 111.95%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10681988143	5.3103455 ppm
3) H,M TPHG C6 - C12	6.53	9868221968	5.0445224 ppm
4) H,M TPHGAK C6 to C10	6.53	8484891230	5.3649210 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	9004791631	5.3692511 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	516335383	151.3729651 ppb
11) T,M benzene	7.53	949836756	72.7670479 ppb
12) T,M toluene	8.99	4810583372	379.3143240 ppb
13) T,M ethylbenzene	10.07	1144399498	102.2970480 ppb
14) T,M m&p-xylene	10.20	3983820285	325.0383457 ppb
15) T,M o-xylene	10.48	1544550366	139.4962104 ppb

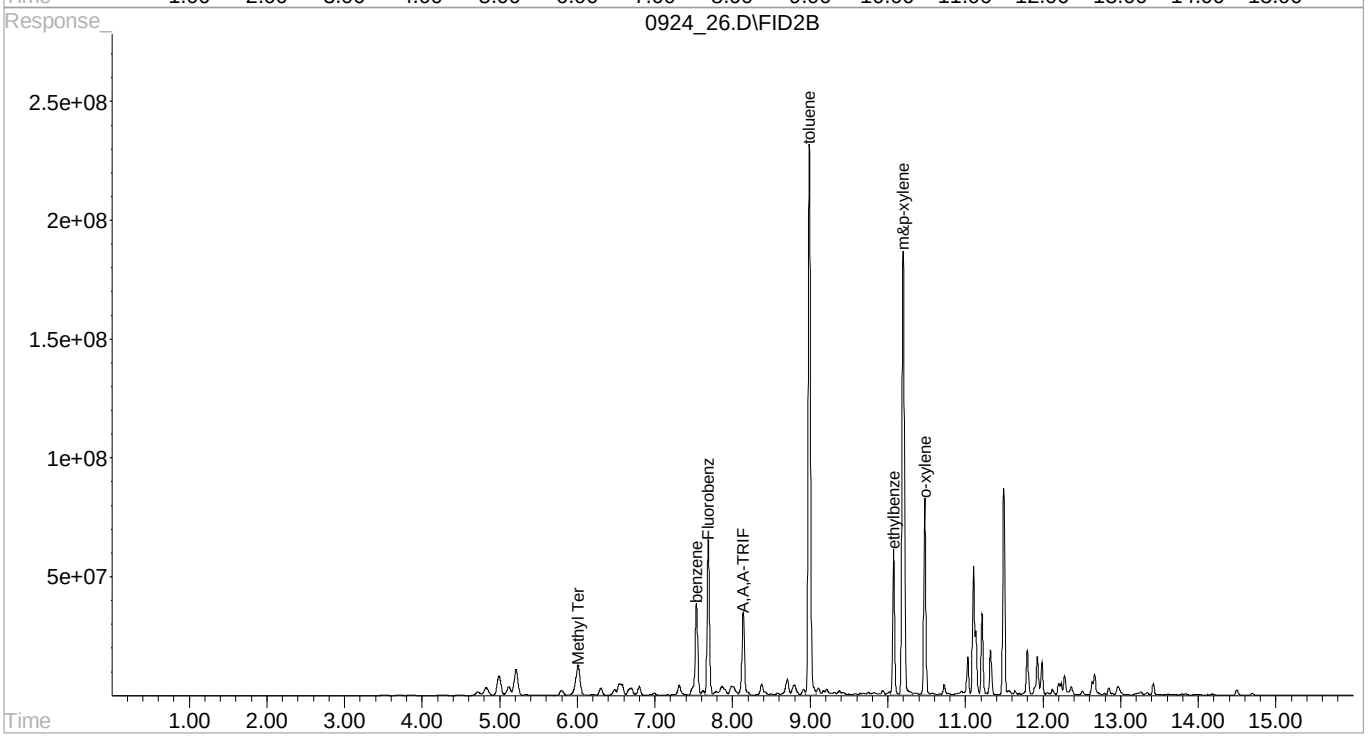
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 26.D\FID1A.CH   Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 26.D\FID2B.CH
Acq On    : 24 Sep 2014   6:37 pm                    Operator: 621
Sample    : SSCV GRO 5.5g ppm 14I24979               Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 26.D\FID1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 26.D\FID2B.CH
Acq On : 24 Sep 2014 6:37 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I24979 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

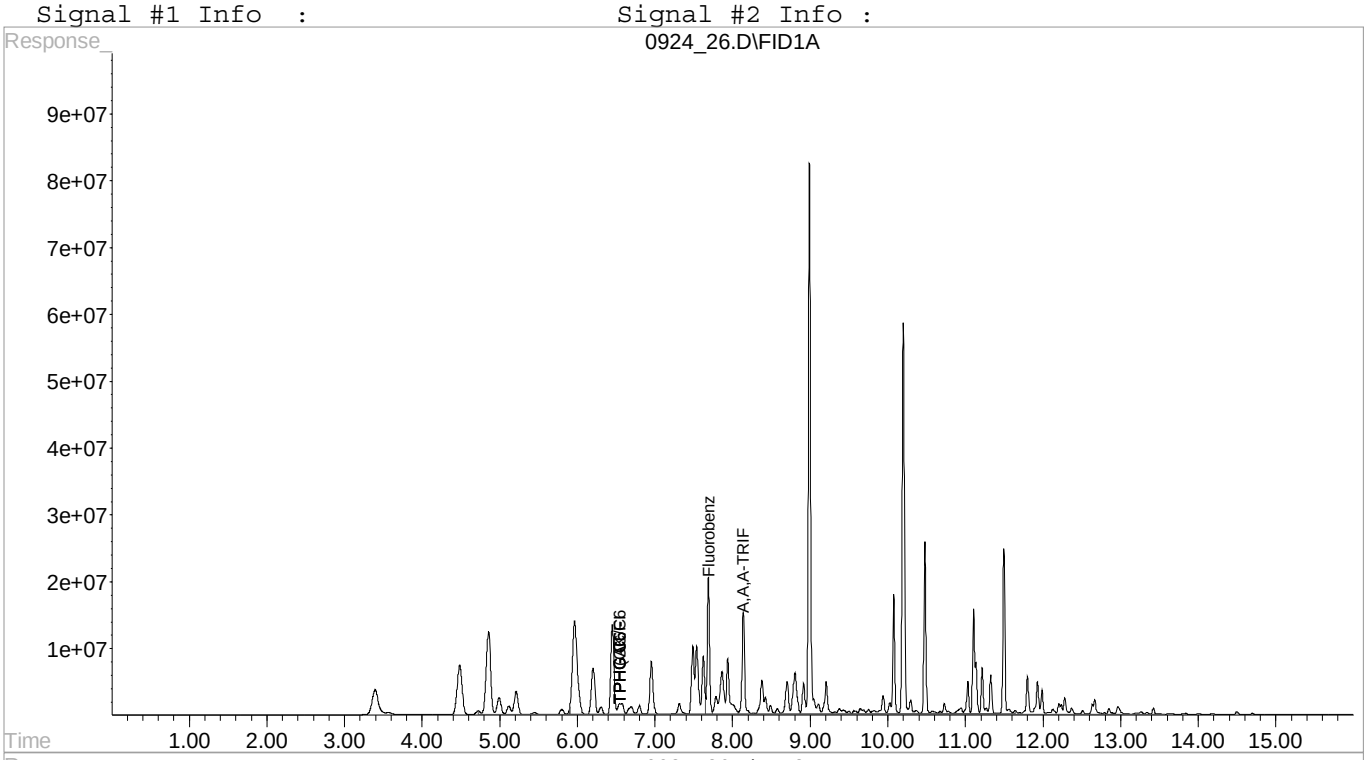
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	429640312	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1394897011	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	349780890	202.9808859 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 101.49%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	817828719	223.9008282 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 111.95%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10681988143	5.3103455 ppm
3) H,M TPHG C6 - C12	6.53	9868221968	5.0445224 ppm
4) H,M TPHGAK C6 to C10	6.53	8484891230	5.3649210 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	9004791631	5.3692511 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	516335383	151.3729651 ppb
11) T,M benzene	7.53	949836756	72.7670479 ppb
12) T,M toluene	8.99	4810583372	379.3143240 ppb
13) T,M ethylbenzene	10.07	1144399498	102.2970480 ppb
14) T,M m&p-xylene	10.20	3983820285	325.0383457 ppb
15) T,M o-xylene	10.48	1544550366	139.4962104 ppb

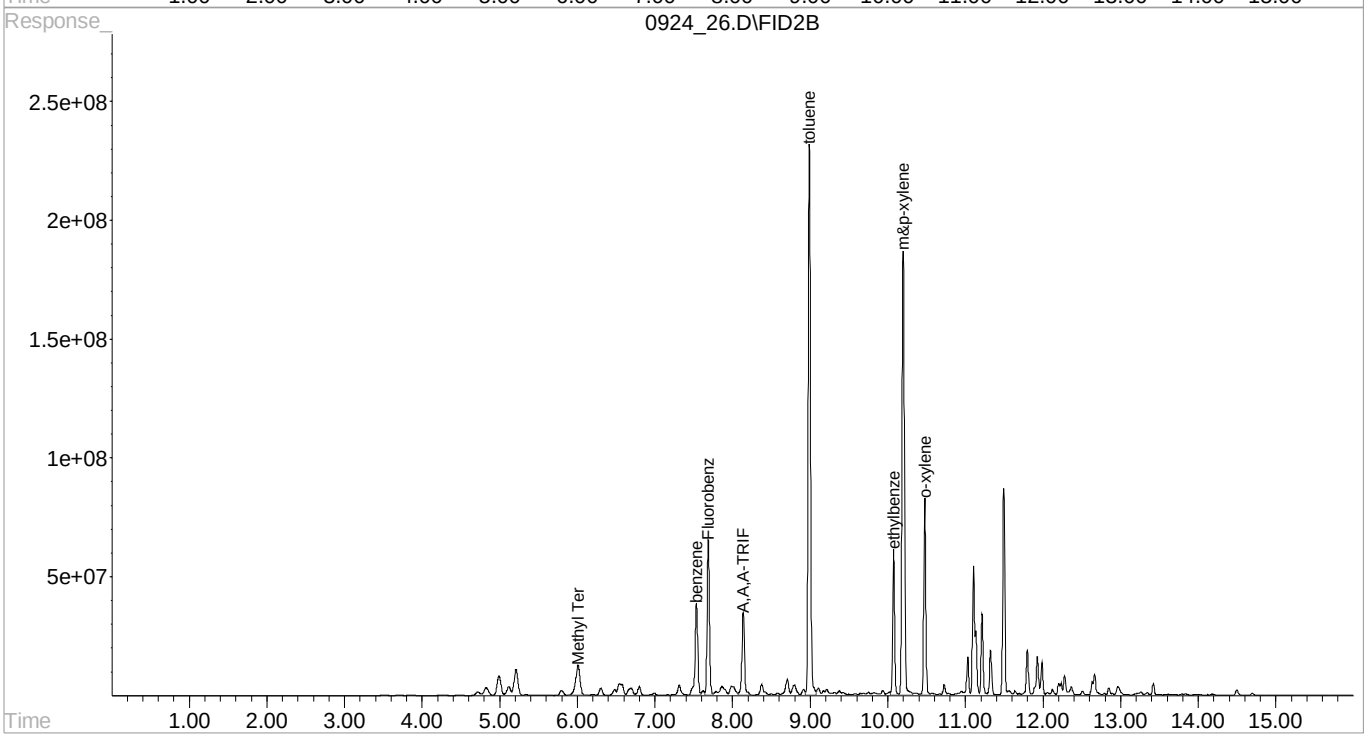
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 26.D\FID1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 26.D\FID2B.CH
Acq On : 24 Sep 2014 6:37 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I24979 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:31 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 04.D\FID2B.CH
Acq On : 24 Sep 2014 10:25 am Operator: 621
Sample : STD BTEX .5 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

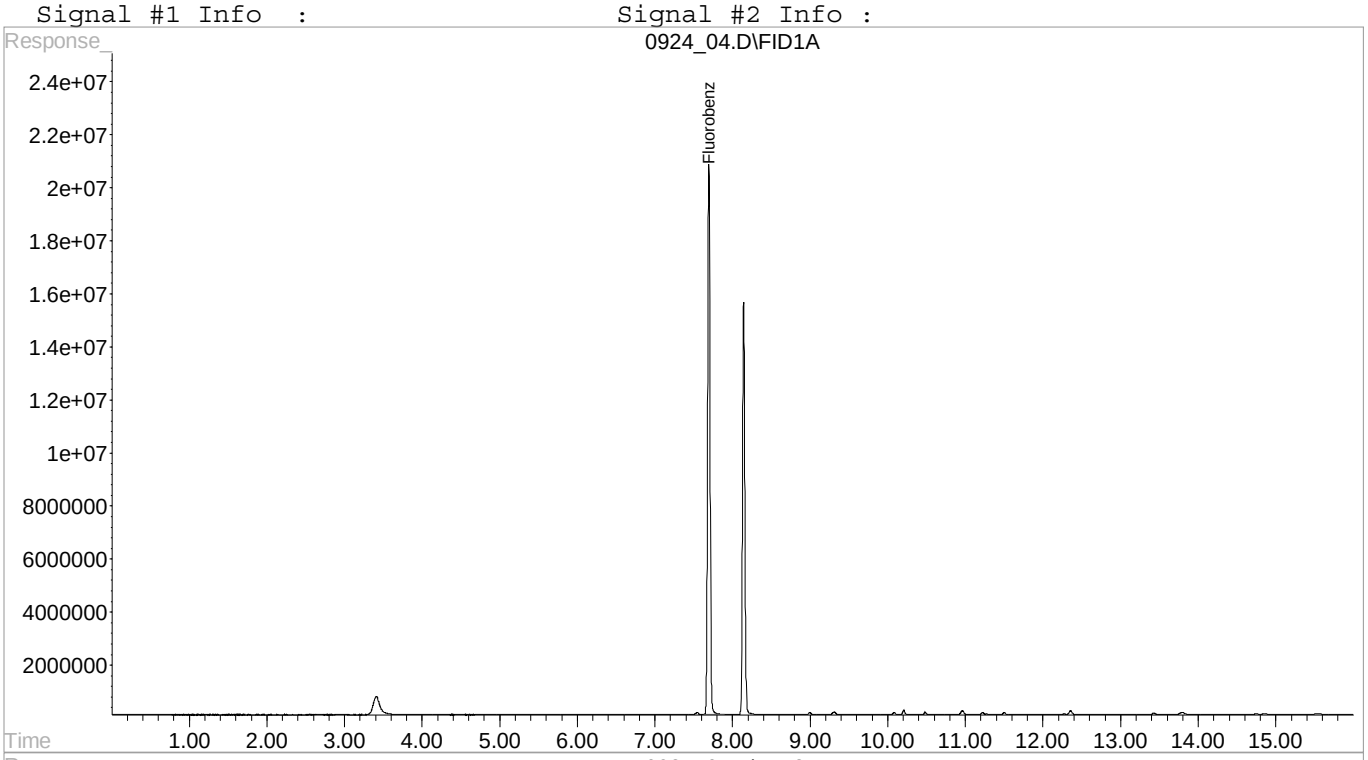
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	436223922	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1406839779	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	326773429	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	745910825	201.0526862	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 100.53%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	57267568	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	53746582	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	32763207	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	35118084	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.02	1613341	0.4686971	ppb
11) T,M benzene	7.54	6848413	0.5259604	ppb
12) T,M toluene	8.99	6608246	0.5169855	ppb
13) T,M ethylbenzene	10.08	5767294	0.5092896	ppb
14) T,M m&p-xylene	10.20	13669680	1.1057488	ppb
15) T,M o-xylene	10.48	6173231	0.5600634	ppb

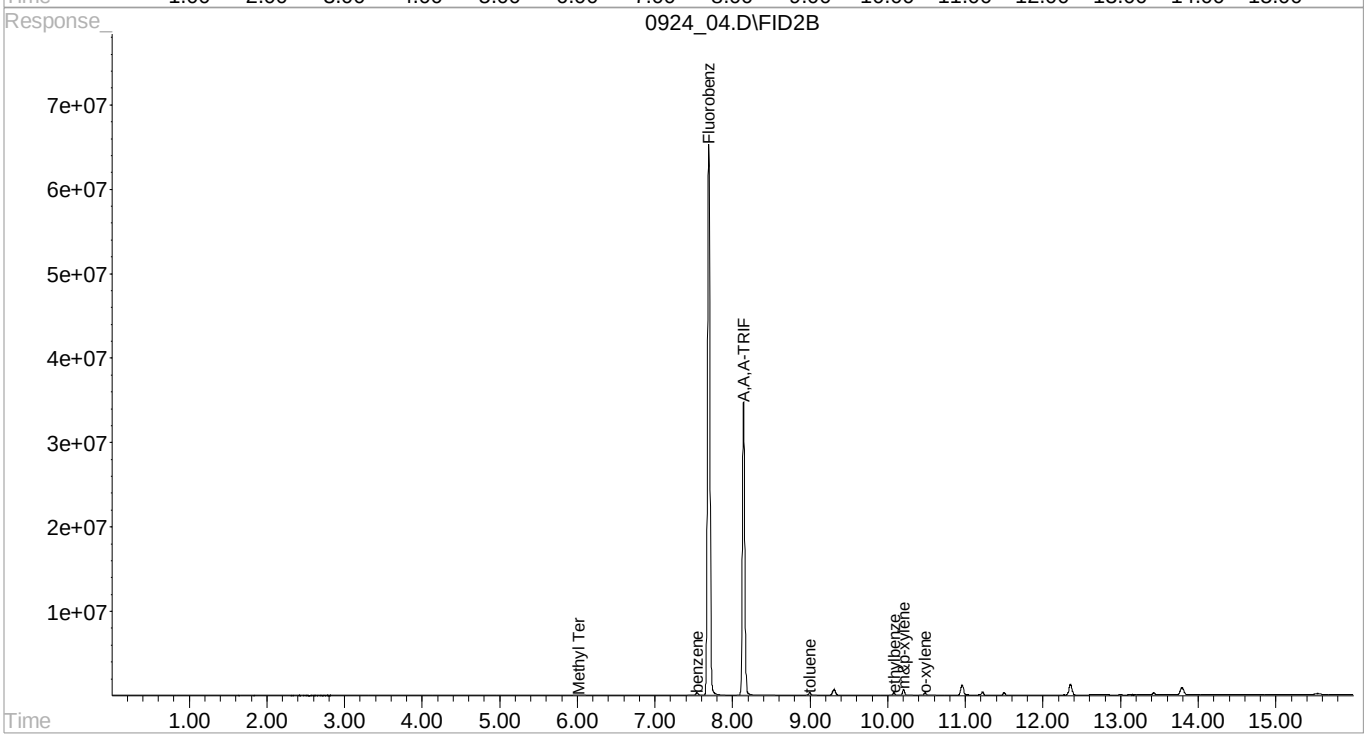
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 04.D\FID2B.CH
Acq On : 24 Sep 2014 10:25 am Operator: 621
Sample : STD BTEX .5 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 04.D\FID1A.CH   Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 04.D\FID2B.CH
Acq On    : 24 Sep 2014  10:25 am                    Operator: 621
Sample    : STD BTEX .5 ppm 14G09861                 Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:24 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

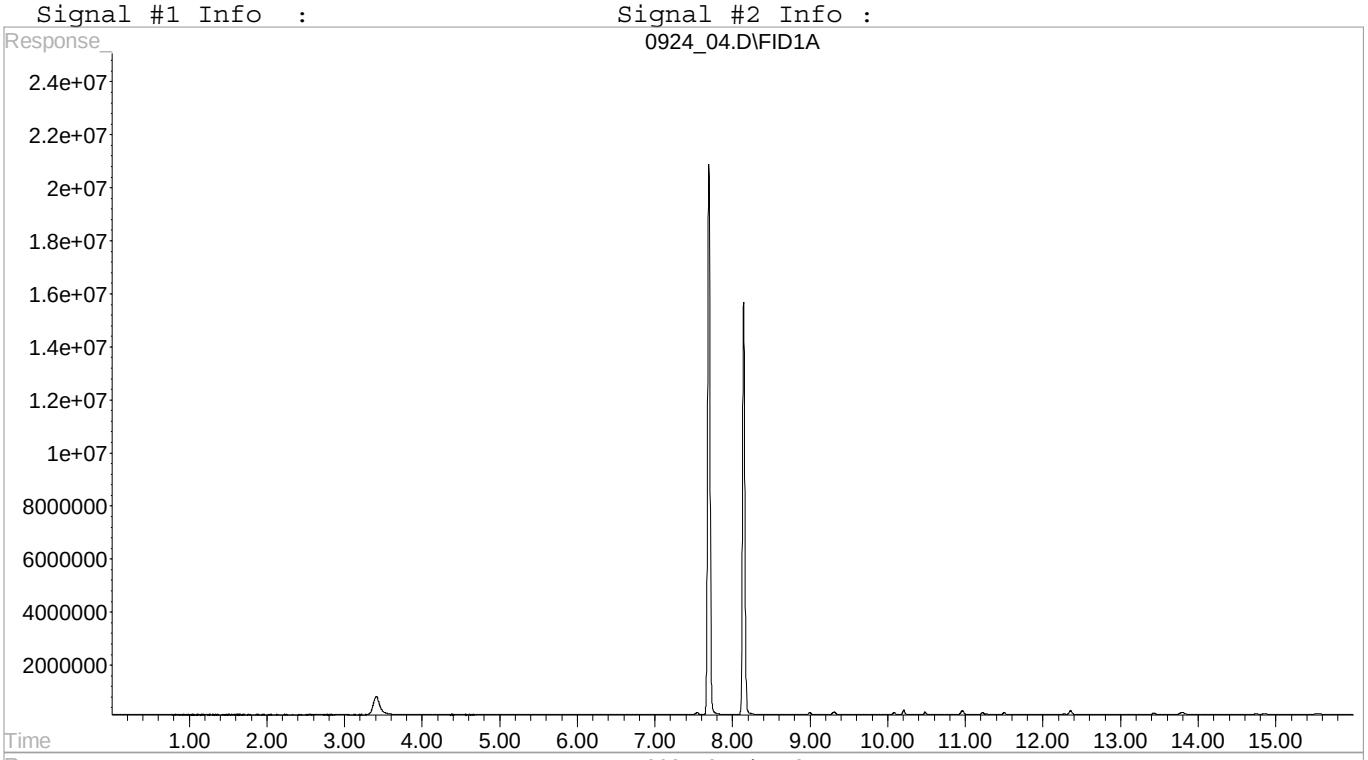
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1406839779	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery =	0.00%#	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	745910825	201.0526862	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery =	100.53%	
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.02	1613341	0.4686971	ppb
11) T,M benzene	7.54	6848413	0.5259604	ppb
12) T,M toluene	8.99	6608246	0.5169855	ppb
13) T,M ethylbenzene	10.08	5767294	0.5092896	ppb
14) T,M m&p-xylene	10.20	13669680	1.1057488	ppb
15) T,M o-xylene	10.48	6173231	0.5600634	ppb

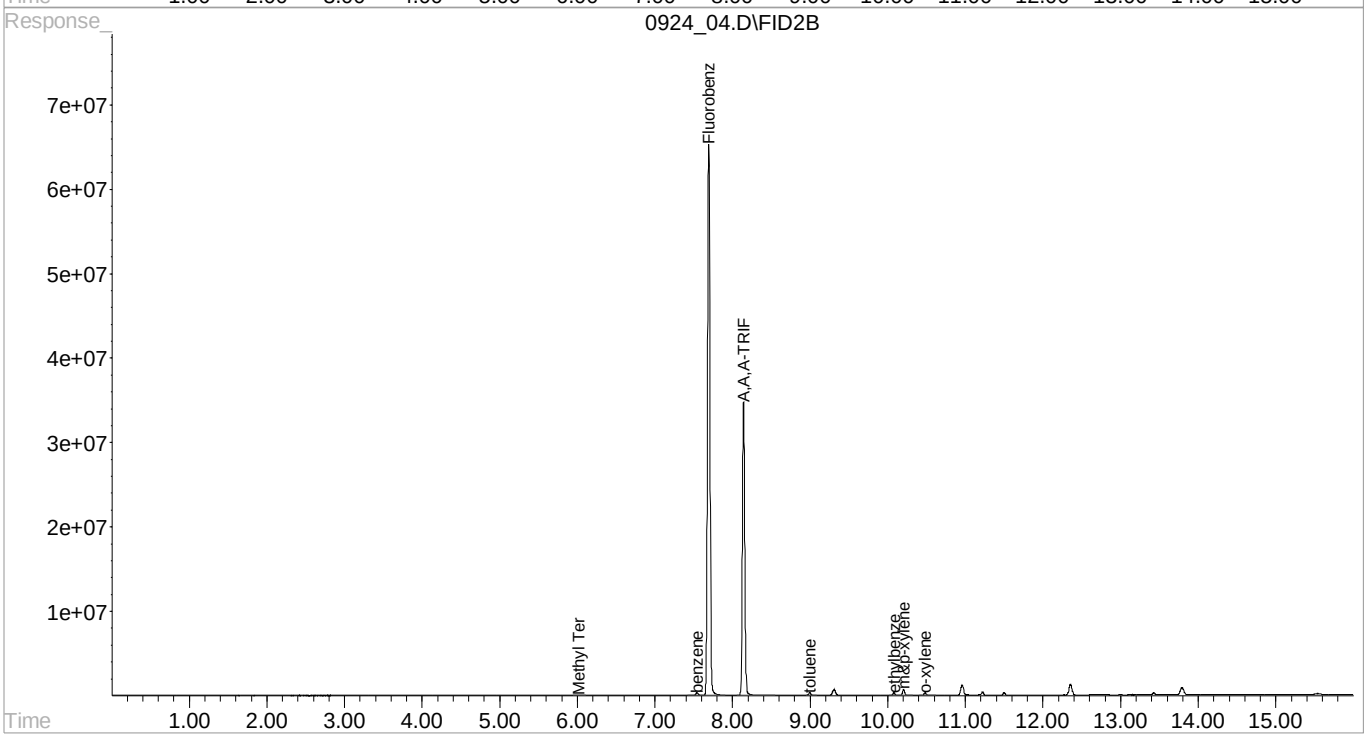
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 04.D\FID2B.CH
Acq On : 24 Sep 2014 10:25 am Operator: 621
Sample : STD BTEX .5 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:24 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 05.D\FID2B.CH
Acq On : 24 Sep 2014 10:47 am Operator: 621
Sample : STD BTEX 1 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

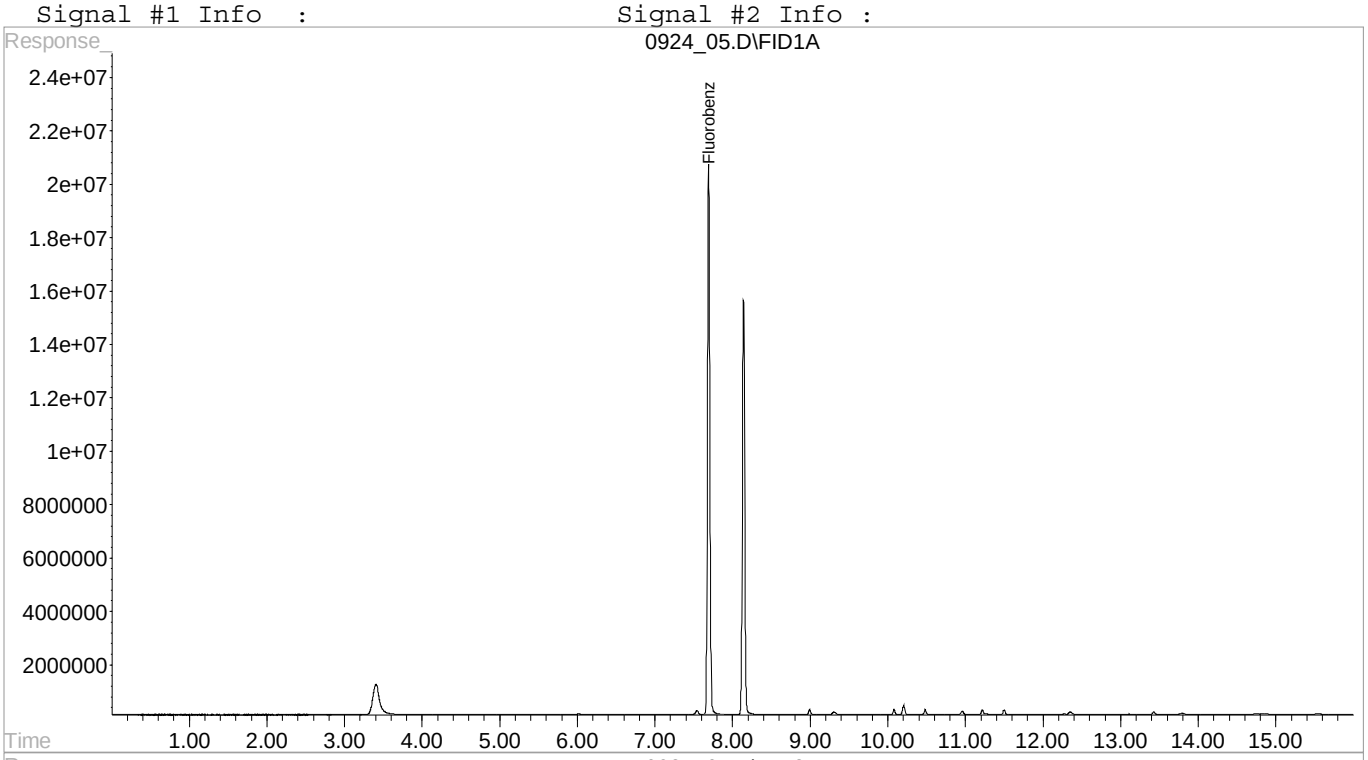
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	430073100	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1388717698	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	324993558	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	743165479	202.9266881	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.46%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	68716609	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	65691167	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	44368417	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	48208017	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	3579836	1.0535611	ppb
11) T,M benzene	7.54	14583273	1.1346158	ppb
12) T,M toluene	8.99	13900315	1.1016596	ppb
13) T,M ethylbenzene	10.08	12364682	1.1061305	ppb
14) T,M m&p-xylene	10.20	28571472	2.3413235	ppb
15) T,M o-xylene	10.48	12507860	1.1495776	ppb

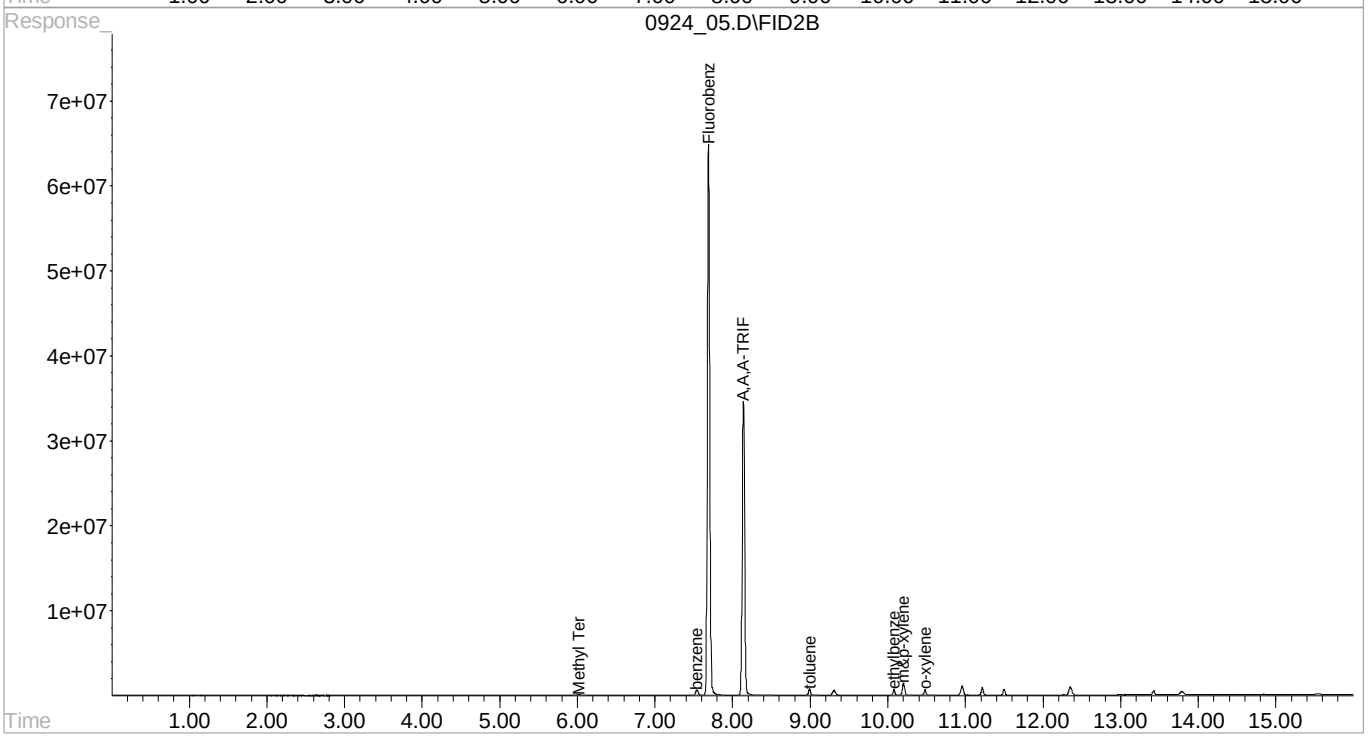
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 05.D\FID2B.CH
Acq On : 24 Sep 2014 10:47 am Operator: 621
Sample : STD BTEX 1 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 05.D\FID1A.CH   Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 05.D\FID2B.CH
Acq On    : 24 Sep 2014  10:47 am                    Operator: 621
Sample    : STD BTEX 1 ppm 14G09861                  Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:24 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

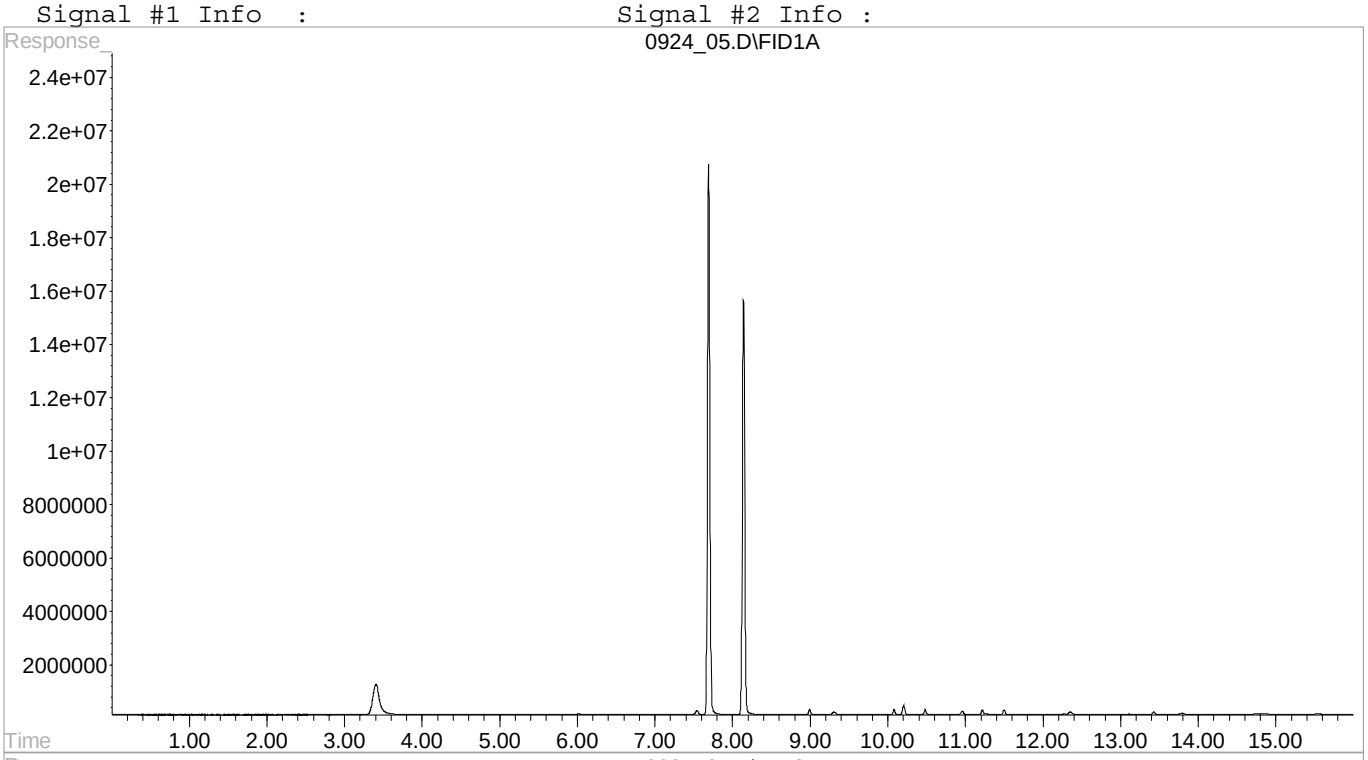
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1388717698	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery =	0.00%#	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	743165479	202.9266881	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery =	101.46%	
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	3579836	1.0535611	ppb
11) T,M benzene	7.54	14583273	1.1346158	ppb
12) T,M toluene	8.99	13900315	1.1016596	ppb
13) T,M ethylbenzene	10.08	12364682	1.1061305	ppb
14) T,M m&p-xylene	10.20	28571472	2.3413235	ppb
15) T,M o-xylene	10.48	12507860	1.1495776	ppb

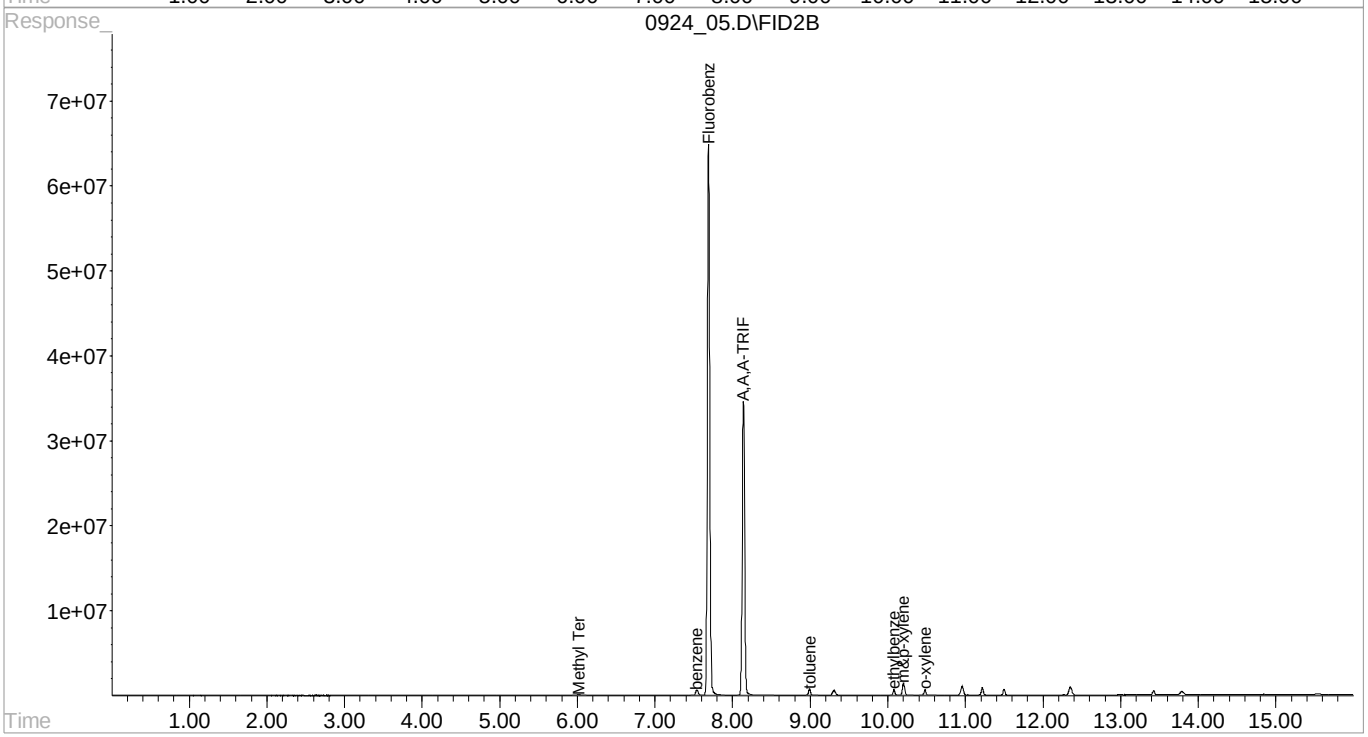
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 05.D\FID1A.CH   Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 05.D\FID2B.CH
Acq On    : 24 Sep 2014  10:47 am                    Operator: 621
Sample    : STD BTEX 1 ppm 14G09861                  Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:24 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 06.D\FID1A.CH   Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 06.D\FID2B.CH
Acq On    : 24 Sep 2014  11:10 am                    Operator: 621
Sample    : STD BTEX 5 ppm 14G09861                  Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

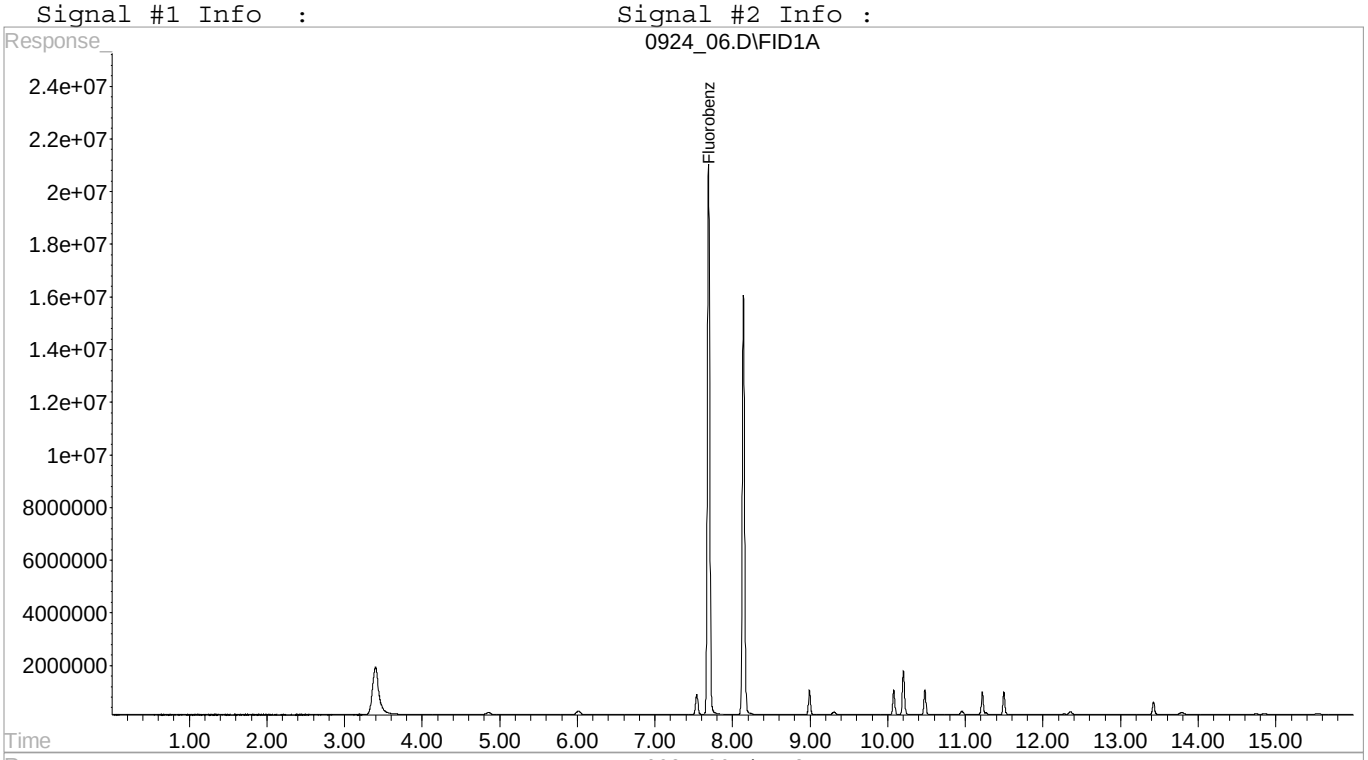
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	434005589	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1404218216	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	332592543	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	759951811	205.2197060	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 102.61%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	184256742	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	178522327	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	139093259	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	154673840	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	17887220	5.2061758	ppb
11) T,M benzene	7.54	68692772	5.2854772	ppb
12) T,M toluene	8.99	68083480	5.3363452	ppb
13) T,M ethylbenzene	10.08	60443705	5.3475375	ppb
14) T,M m&p-xylene	10.20	136493338	11.0616427	ppb
15) T,M o-xylene	10.48	59233575	5.3839695	ppb

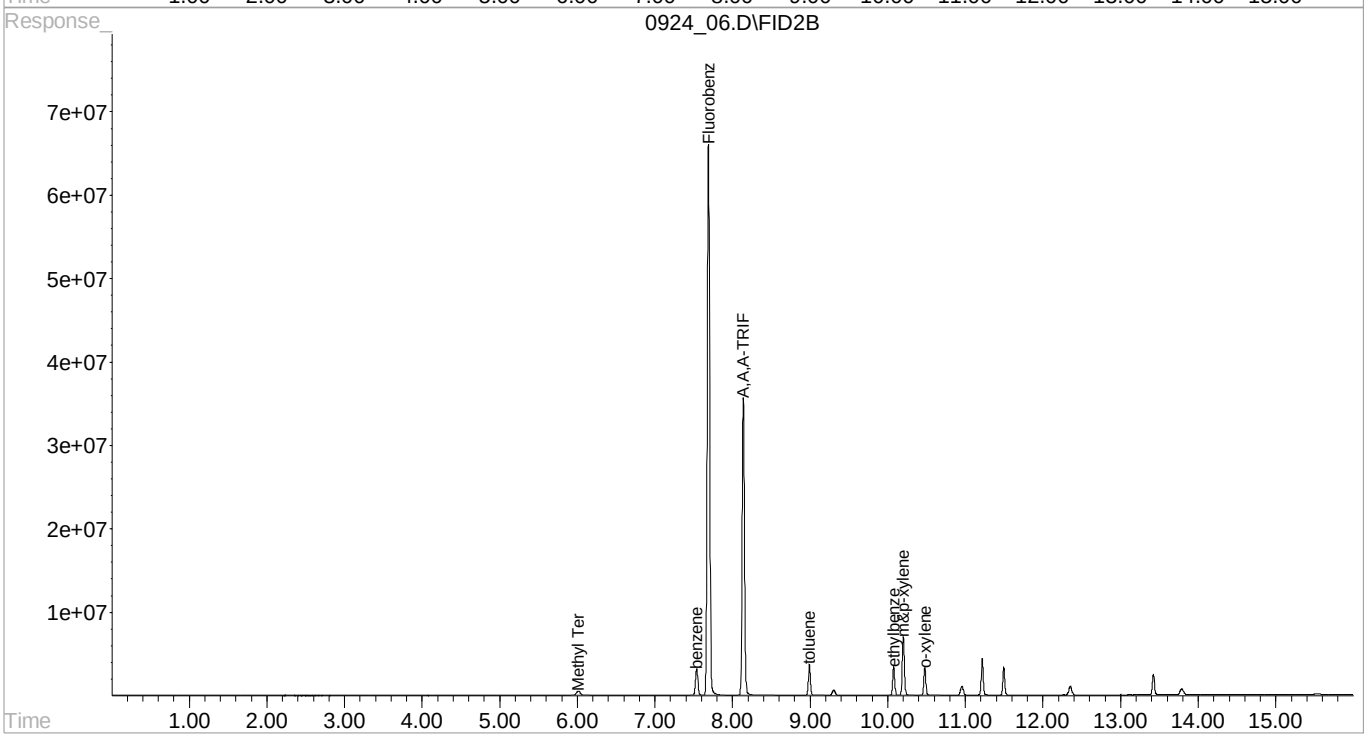
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 06.D\FID2B.CH
Acq On : 24 Sep 2014 11:10 am Operator: 621
Sample : STD BTEX 5 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 06.D\FID2B.CH
Acq On : 24 Sep 2014 11:10 am Operator: 621
Sample : STD BTEX 5 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:24 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

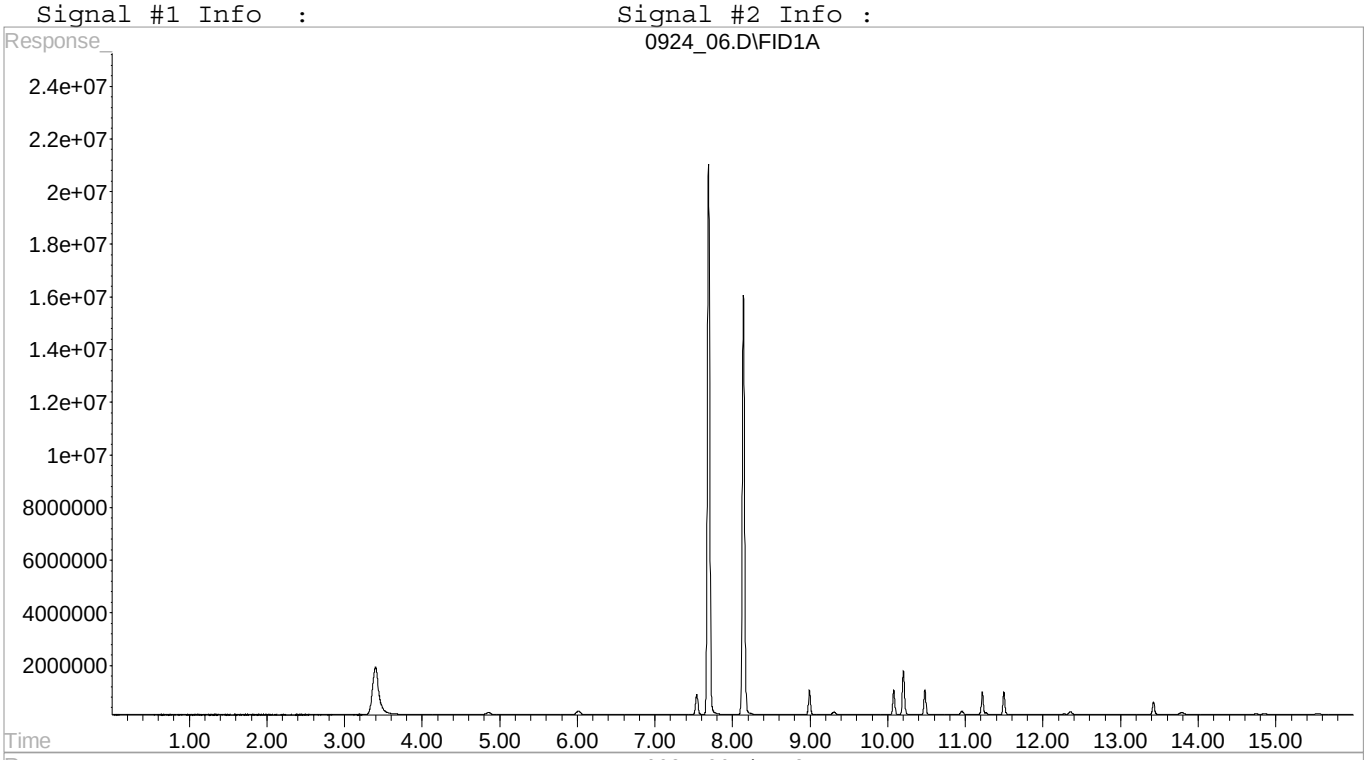
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1404218216	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	759951811	205.2197060	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 102.61%		
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	17887220	5.2061758	ppb
11) T,M benzene	7.54	68692772	5.2854772	ppb
12) T,M toluene	8.99	68083480	5.3363452	ppb
13) T,M ethylbenzene	10.08	60443705	5.3475375	ppb
14) T,M m&p-xylene	10.20	136493338	11.0616427	ppb
15) T,M o-xylene	10.48	59233575	5.3839695	ppb

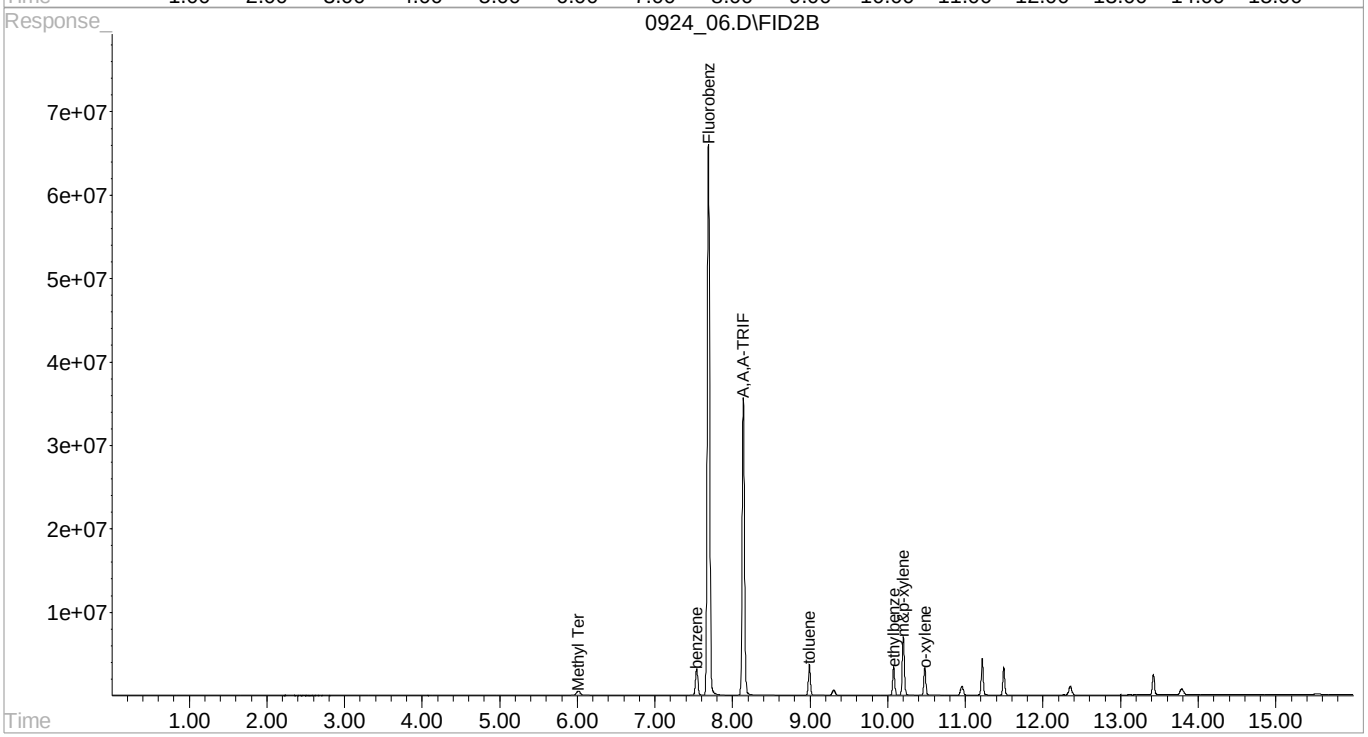
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 06.D\FID2B.CH
Acq On : 24 Sep 2014 11:10 am Operator: 621
Sample : STD BTEX 5 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:24 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 07.D\FID1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 07.D\FID2B.CH
Acq On : 24 Sep 2014 11:32 am Operator: 621
Sample : STD BTEX 10 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

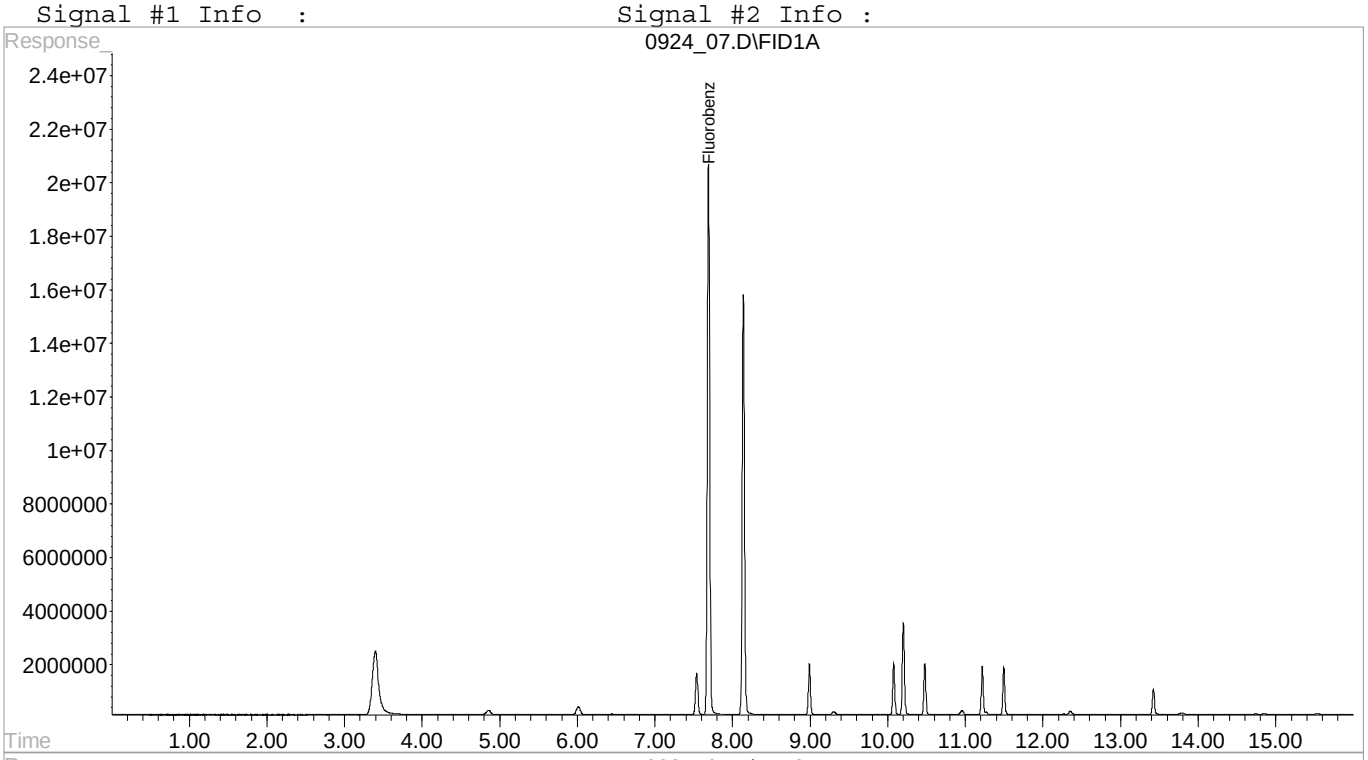
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	426853387	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1385067994	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	328668612	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	751350012	205.7021417	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 102.85%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	338901167	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	330735536	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	266136092	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	297369138	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	37181973	10.9716495	ppb
11) T,M benzene	7.54	140987190	10.9980661	ppb
12) T,M toluene	8.99	140099040	11.1327086	ppb
13) T,M ethylbenzene	10.07	124495819	11.1666021	ppb
14) T,M m&p-xylene	10.20	278576057	22.8884018	ppb
15) T,M o-xylene	10.48	121148543	11.1639105	ppb

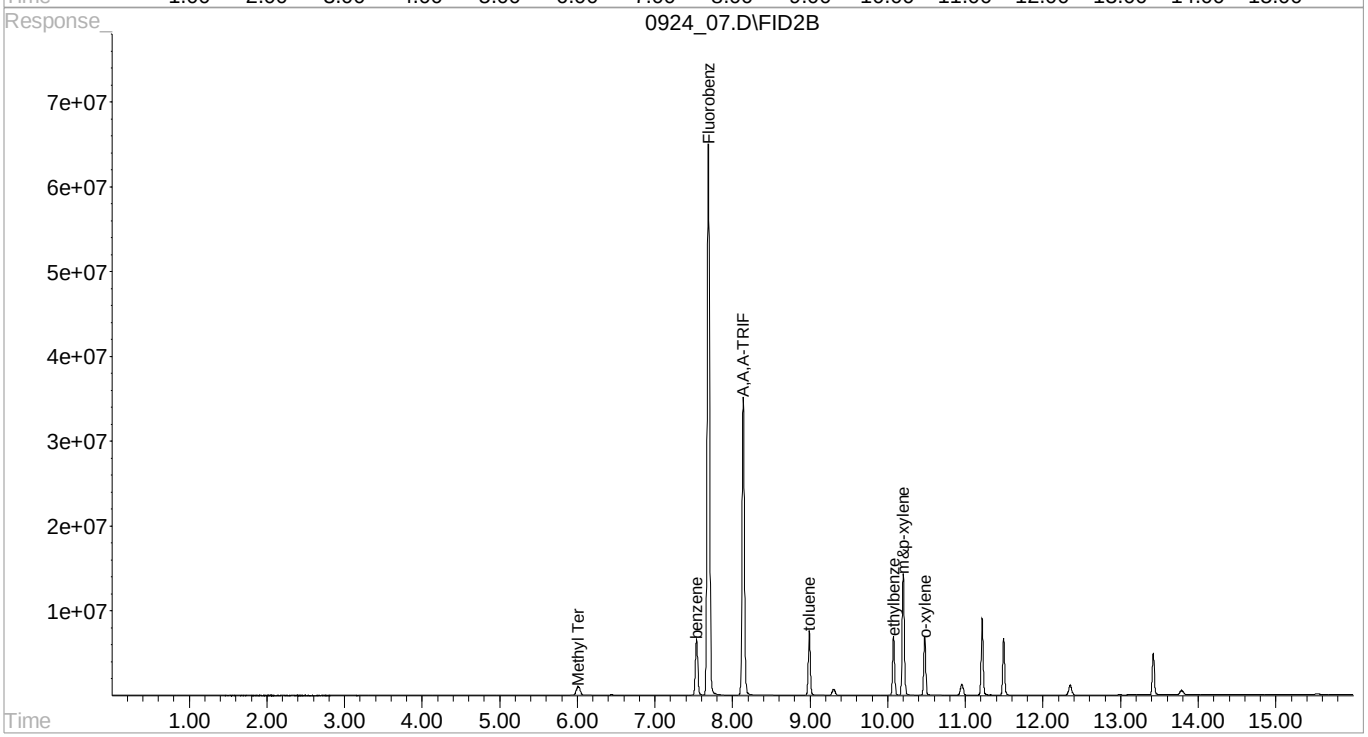
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 07.D\FID1A.CH   Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 07.D\FID2B.CH
Acq On    : 24 Sep 2014  11:32 am                    Operator: 621
Sample    : STD BTEX 10 ppm 14G09861                 Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 07.D\FID1A.CH   Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 07.D\FID2B.CH
Acq On    : 24 Sep 2014  11:32 am                    Operator: 621
Sample    : STD BTEX 10 ppm 14G09861                 Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:24 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

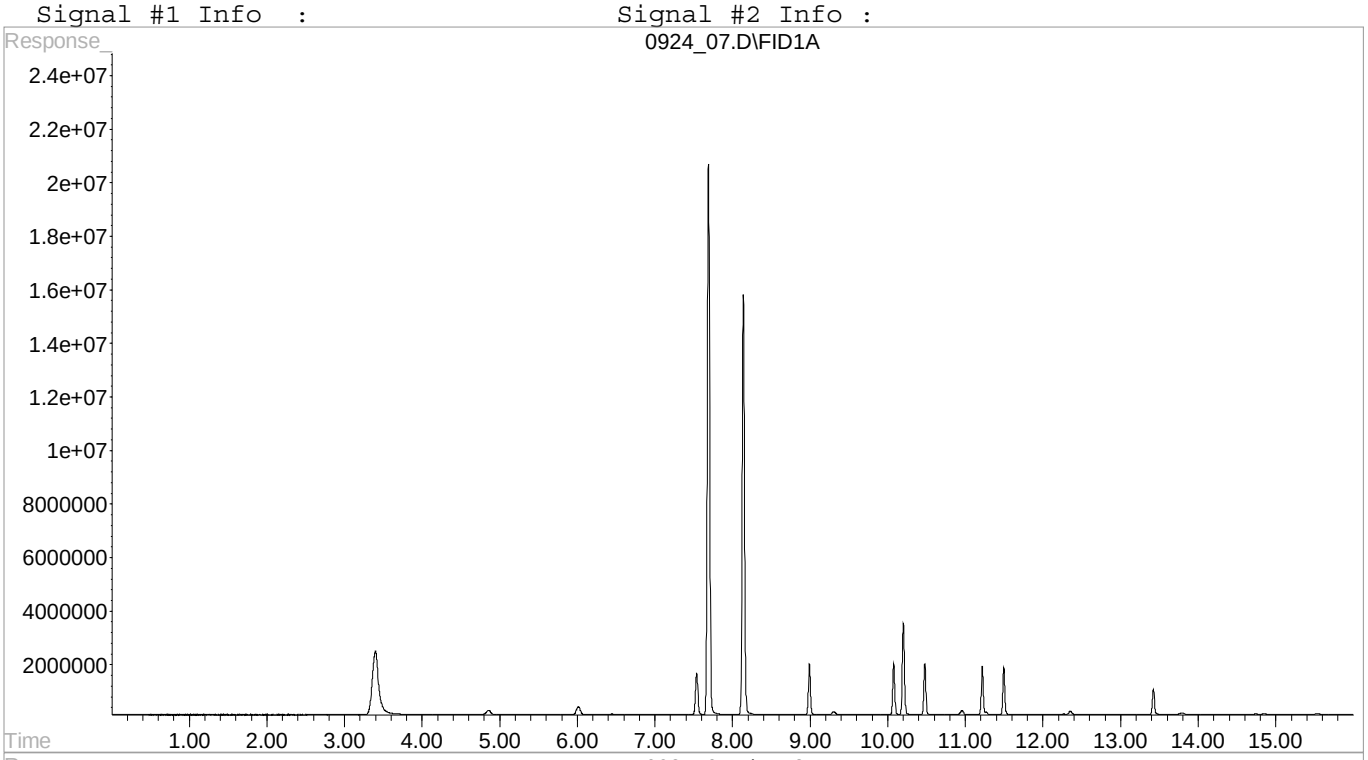
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	7.69	1385067994	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
	Spiked Amount 200.000 Range 70 - 130		Recovery =	0.00%#	
9)	S A,A,A-TRIFLUOROTOLUENE(PID	8.14	751350012	205.7021417	ppb
	Spiked Amount 200.000 Range 54 - 144		Recovery =	102.85%	
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	6.01	37181973	10.9716495	ppb
11)	T,M benzene	7.54	140987190	10.9980661	ppb
12)	T,M toluene	8.99	140099040	11.1327086	ppb
13)	T,M ethylbenzene	10.07	124495819	11.1666021	ppb
14)	T,M m&p-xylene	10.20	278576057	22.8884018	ppb
15)	T,M o-xylene	10.48	121148543	11.1639105	ppb

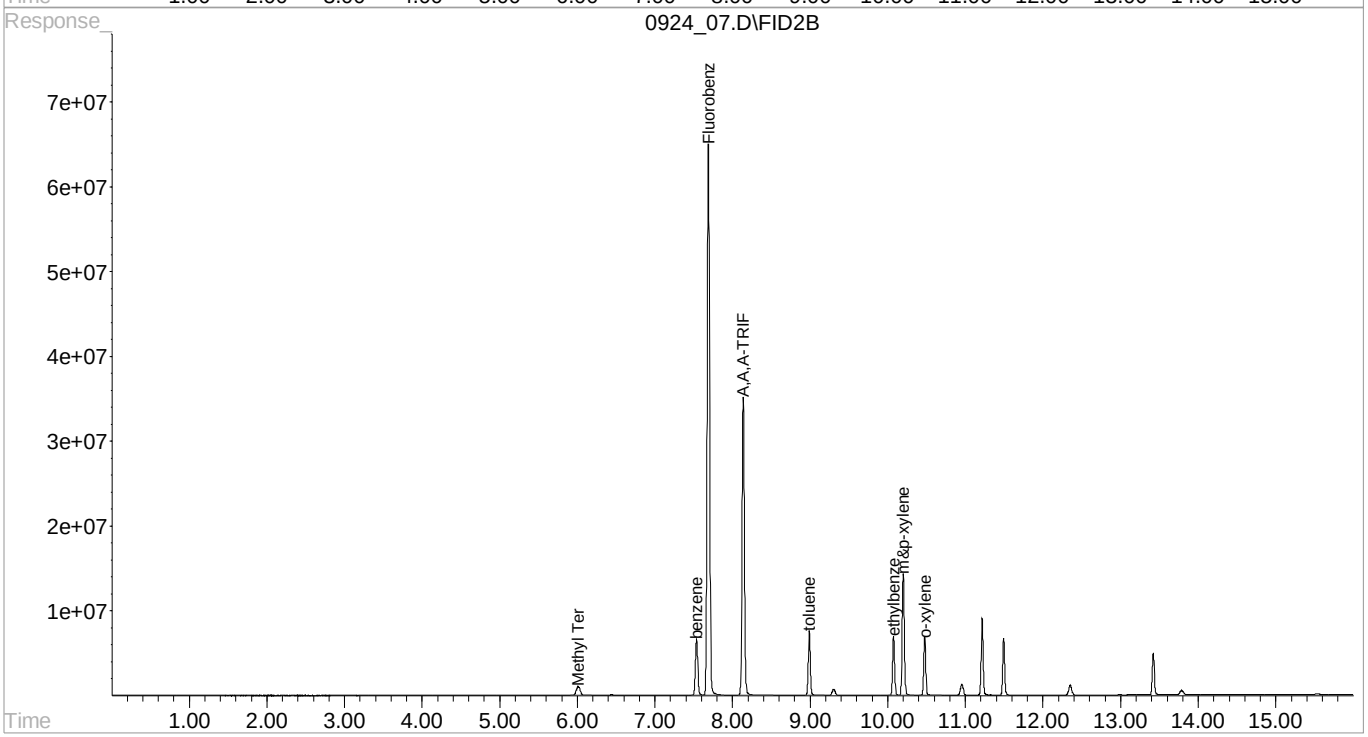
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 07.D\FID1A.CH   Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 07.D\FID2B.CH
Acq On    : 24 Sep 2014  11:32 am                    Operator: 621
Sample    : STD BTEX 10 ppm 14G09861                 Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:24 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 08.D\FID1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 08.D\FID2B.CH
Acq On : 24 Sep 2014 11:54 am Operator: 621
Sample : STD BTEX 25 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

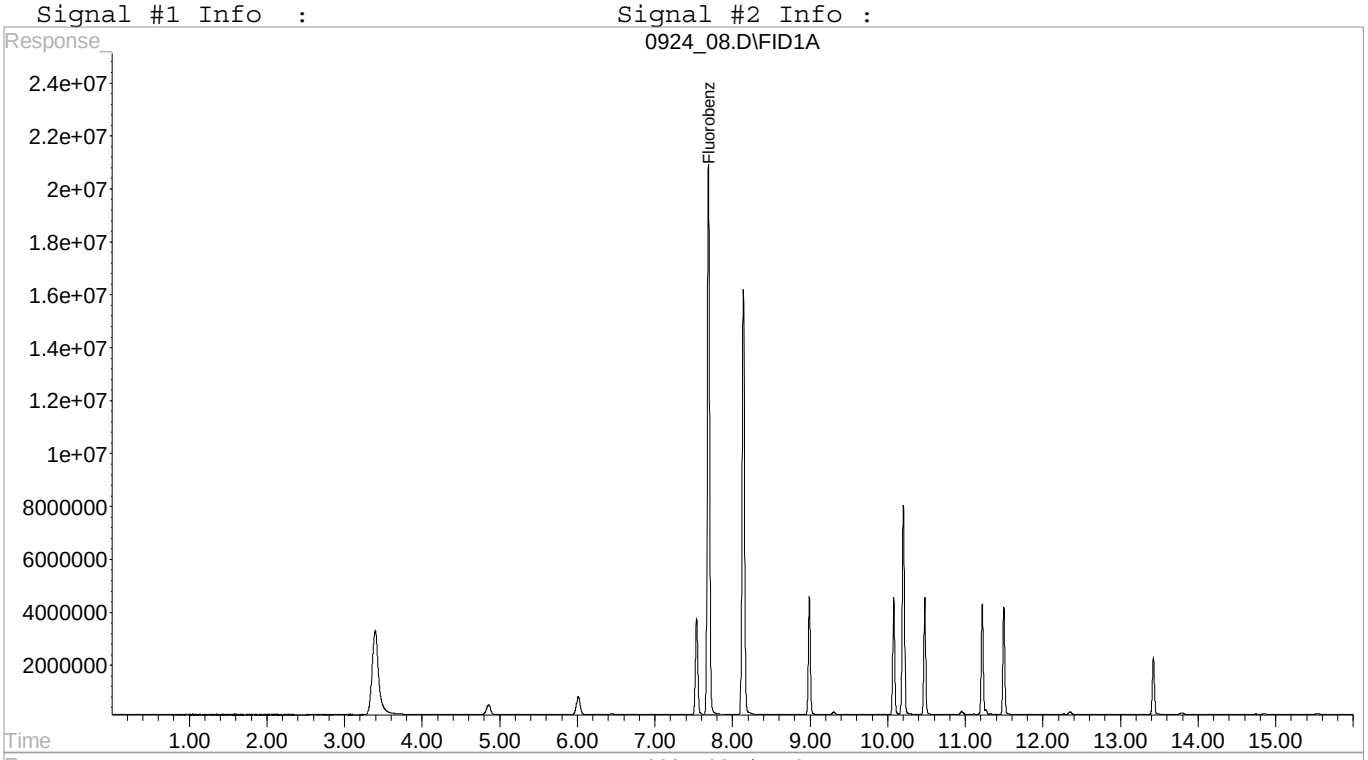
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	432096799	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1405633556	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	336497519	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	771948675	208.2494769	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 104.12%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	732260498	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	717407317	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	590380759	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	662089638	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	86015961	25.0102203	ppb
11) T,M benzene	7.54	328805710	25.2740590	ppb
12) T,M toluene	8.99	324734933	25.4269149	ppb
13) T,M ethylbenzene	10.07	288609523	25.5079706	ppb
14) T,M m&p-xylene	10.20	639121112	51.7432641	ppb
15) T,M o-xylene	10.48	281131635	25.5274155	ppb

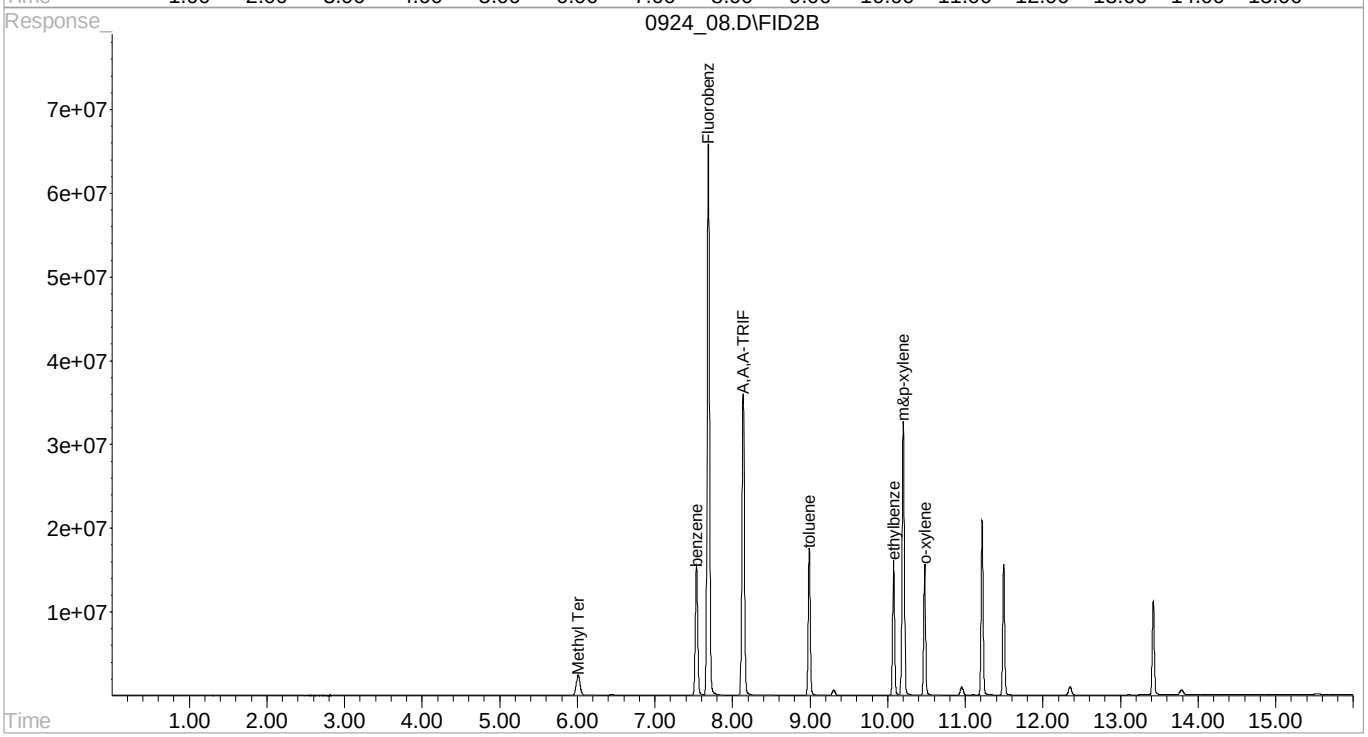
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 08.D\FID1A.CH   Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 08.D\FID2B.CH
Acq On    : 24 Sep 2014  11:54 am                    Operator: 621
Sample    : STD BTEX 25 ppm 14G09861                 Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 08.D\FID1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 08.D\FID2B.CH
Acq On : 24 Sep 2014 11:54 am Operator: 621
Sample : STD BTEX 25 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:25 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

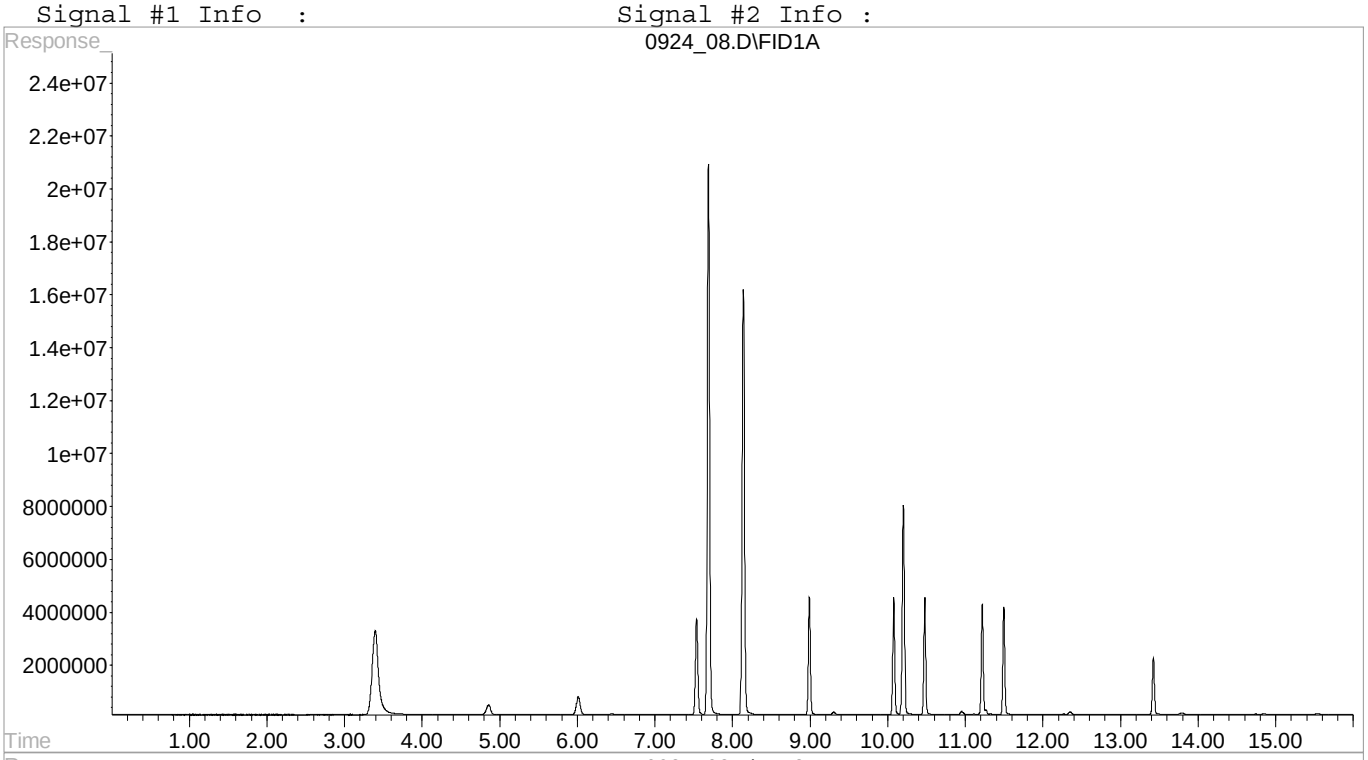
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1405633556	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	771948675	208.2494769	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 104.12%		
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	86015961	25.0102203	ppb
11) T,M benzene	7.54	328805710	25.2740590	ppb
12) T,M toluene	8.99	324734933	25.4269149	ppb
13) T,M ethylbenzene	10.07	288609523	25.5079706	ppb
14) T,M m&p-xylene	10.20	639121112	51.7432641	ppb
15) T,M o-xylene	10.48	281131635	25.5274155	ppb

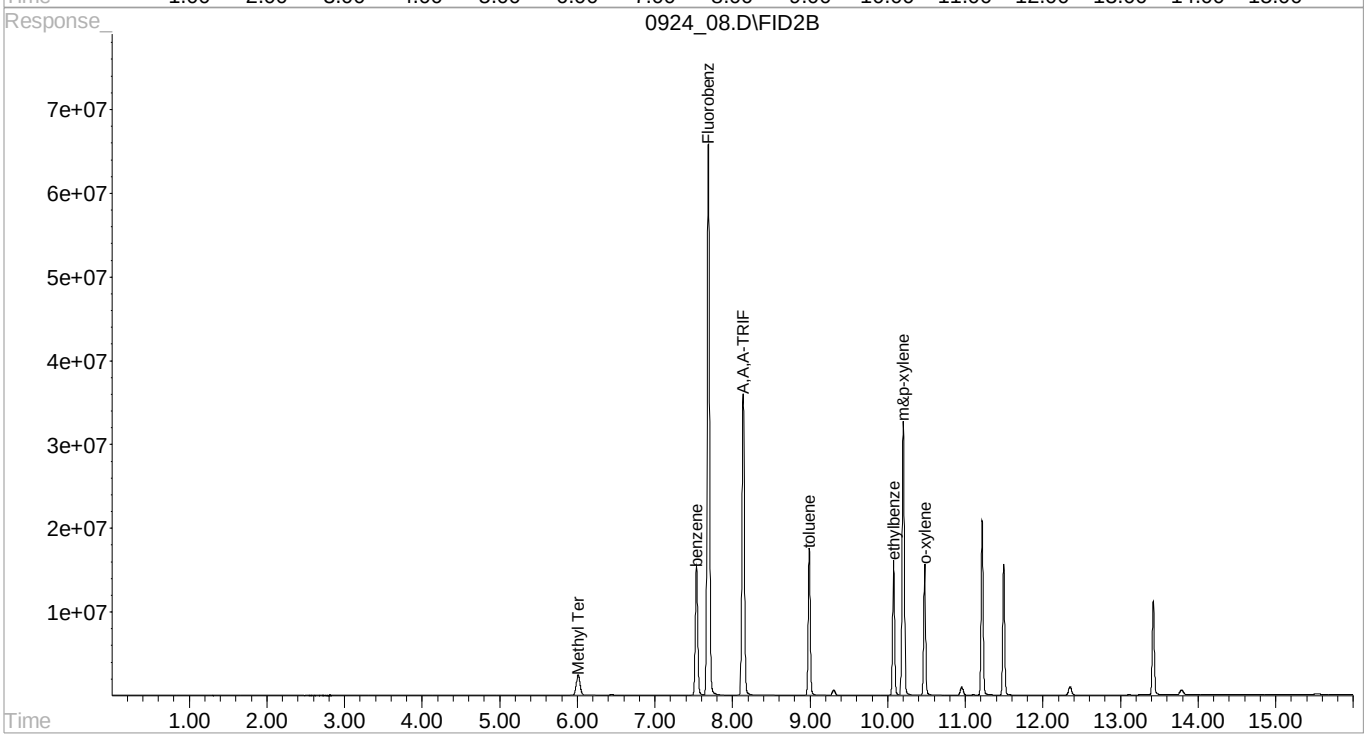
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 08.D\FID1A.CH   Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 08.D\FID2B.CH
Acq On    : 24 Sep 2014  11:54 am                    Operator: 621
Sample    : STD BTEX 25 ppm 14G09861                 Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:25 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 09.D\FID1A.CH   Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 09.D\FID2B.CH
Acq On    : 24 Sep 2014  12:17 pm                    Operator: 621
Sample    : MSTD BTEX 50 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

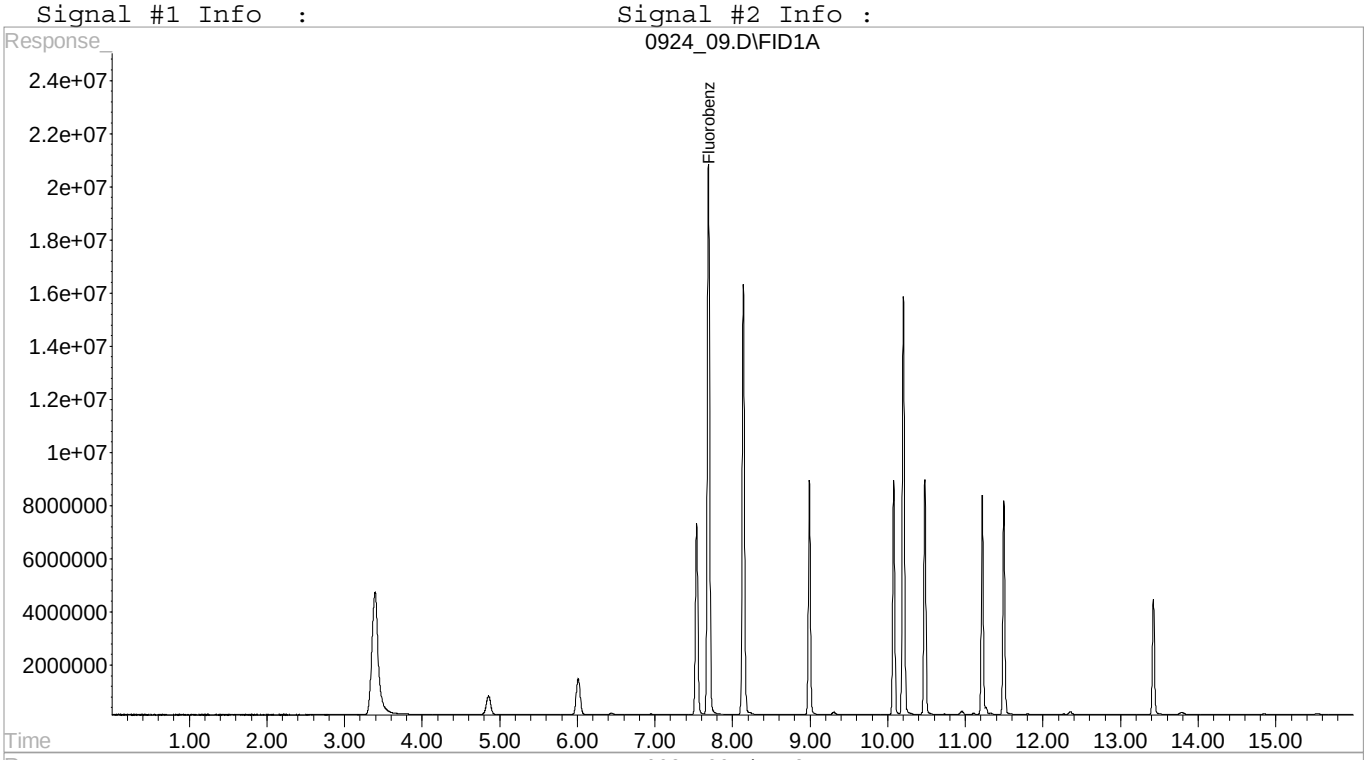
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	430833747	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1407787692	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	338837502	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	779630551	210.0000000	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.00%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	1421659310	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	1393220826	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	1154836192	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	1296274654	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	172225152	50.0000000	ppb
11) T,M benzene	7.54	651477478	50.0000000	ppb
12) T,M toluene	8.99	639543947	50.0000000	ppb
13) T,M ethylbenzene	10.07	566591169	50.0000000	ppb
14) T,M m&p-xylene	10.20	1237070326	100.0000000	ppb
15) T,M o-xylene	10.48	551490356	50.0000000	ppb

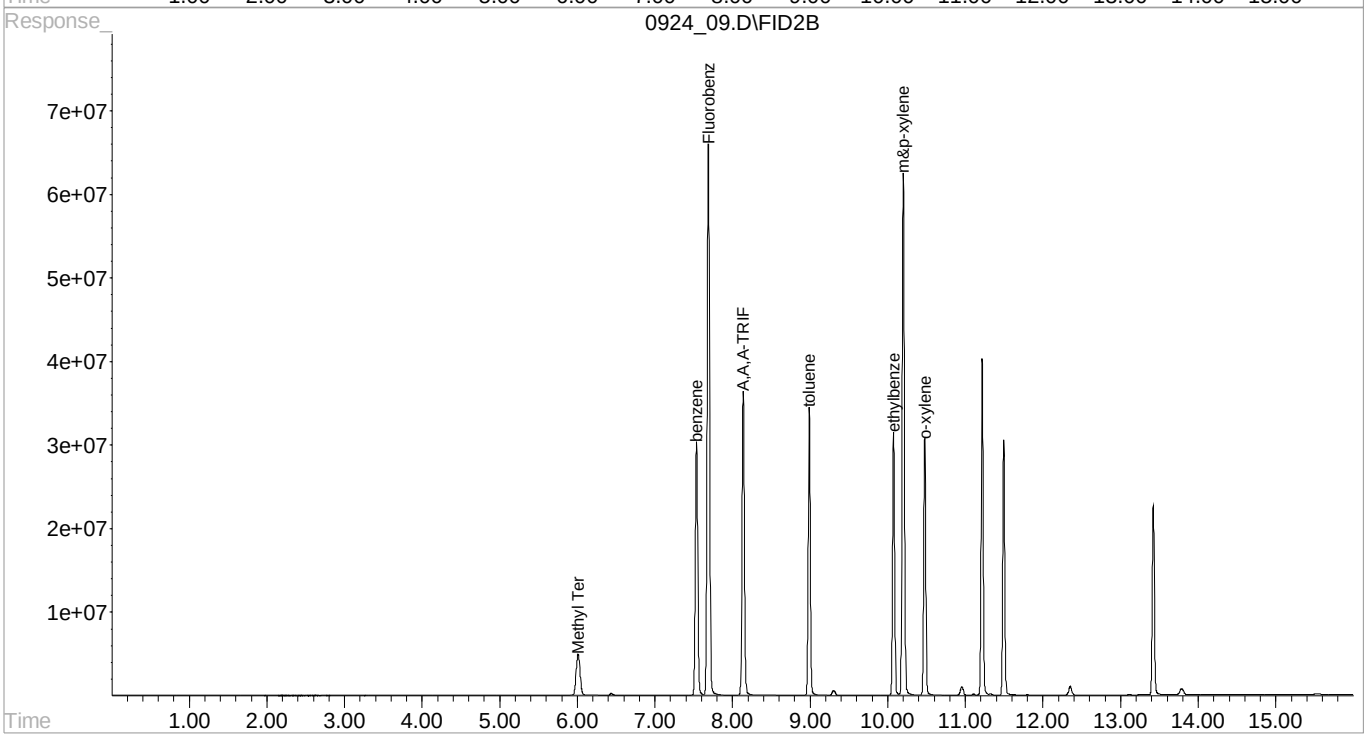
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 09.D\FID1A.CH   Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 09.D\FID2B.CH
Acq On    : 24 Sep 2014  12:17 pm                    Operator: 621
Sample    : MSTD BTEX 50 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 09.D\FID1A.CH   Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 09.D\FID2B.CH
Acq On    : 24 Sep 2014  12:17 pm                    Operator: 621
Sample    : MSTD BTEX 50 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:25 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

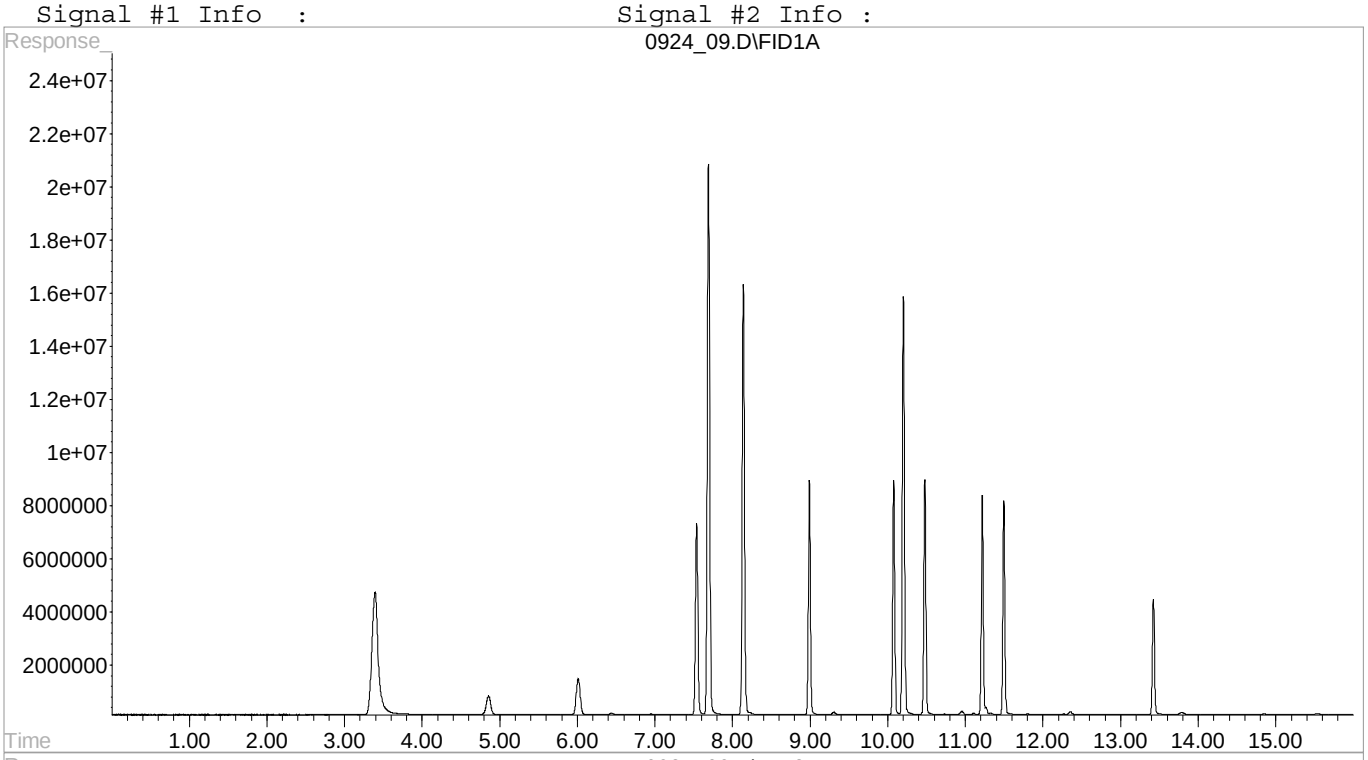
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1407787692	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	779630551	210.0000000	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.00%		
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	172225152	50.0000000	ppb
11) T,M benzene	7.54	651477478	50.0000000	ppb
12) T,M toluene	8.99	639543947	50.0000000	ppb
13) T,M ethylbenzene	10.07	566591169	50.0000000	ppb
14) T,M m&p-xylene	10.20	1237070326	100.0000000	ppb
15) T,M o-xylene	10.48	551490356	50.0000000	ppb

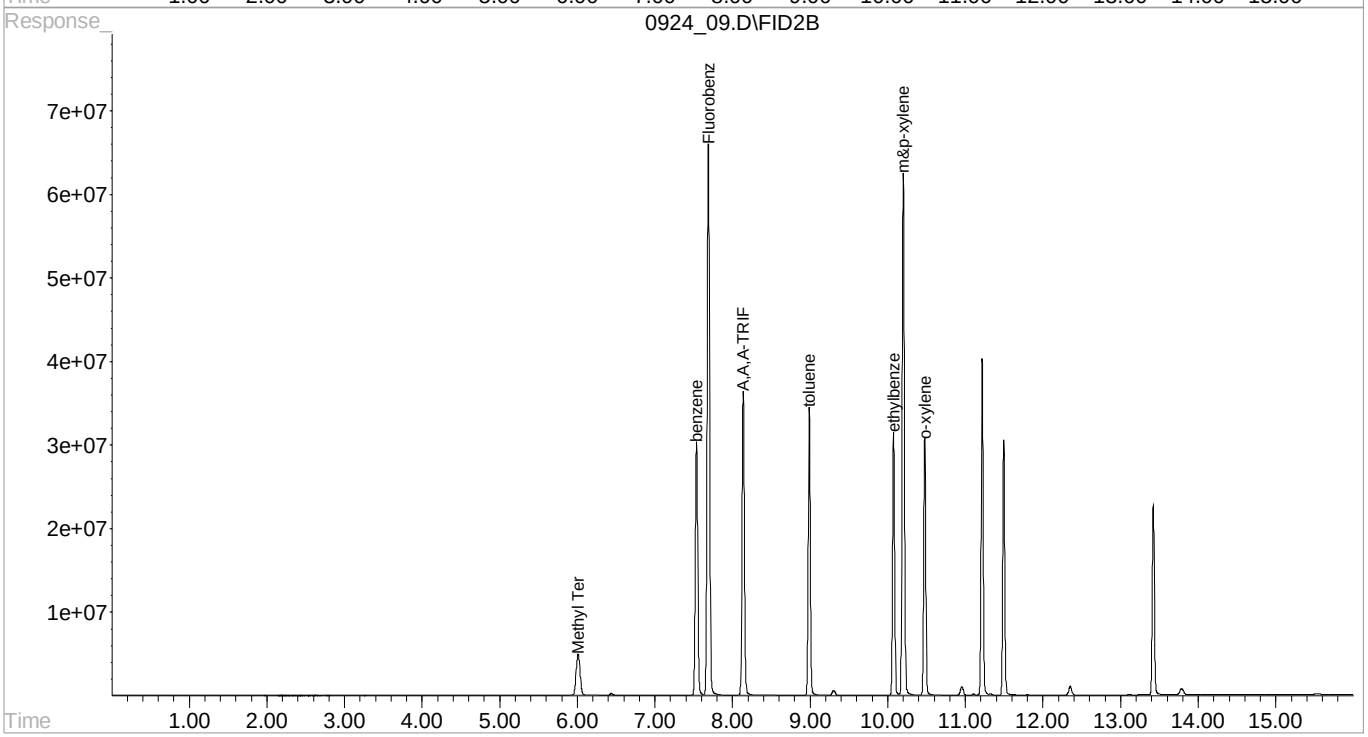
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 09.D\FID2B.CH
Acq On : 24 Sep 2014 12:17 pm Operator: 621
Sample : MSTD BTEX 50 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:25 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 10.D\FID1A.CH   Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 10.D\FID2B.CH
Acq On    : 24 Sep 2014  12:39 pm                    Operator: 621
Sample    : STD BTEX 100 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

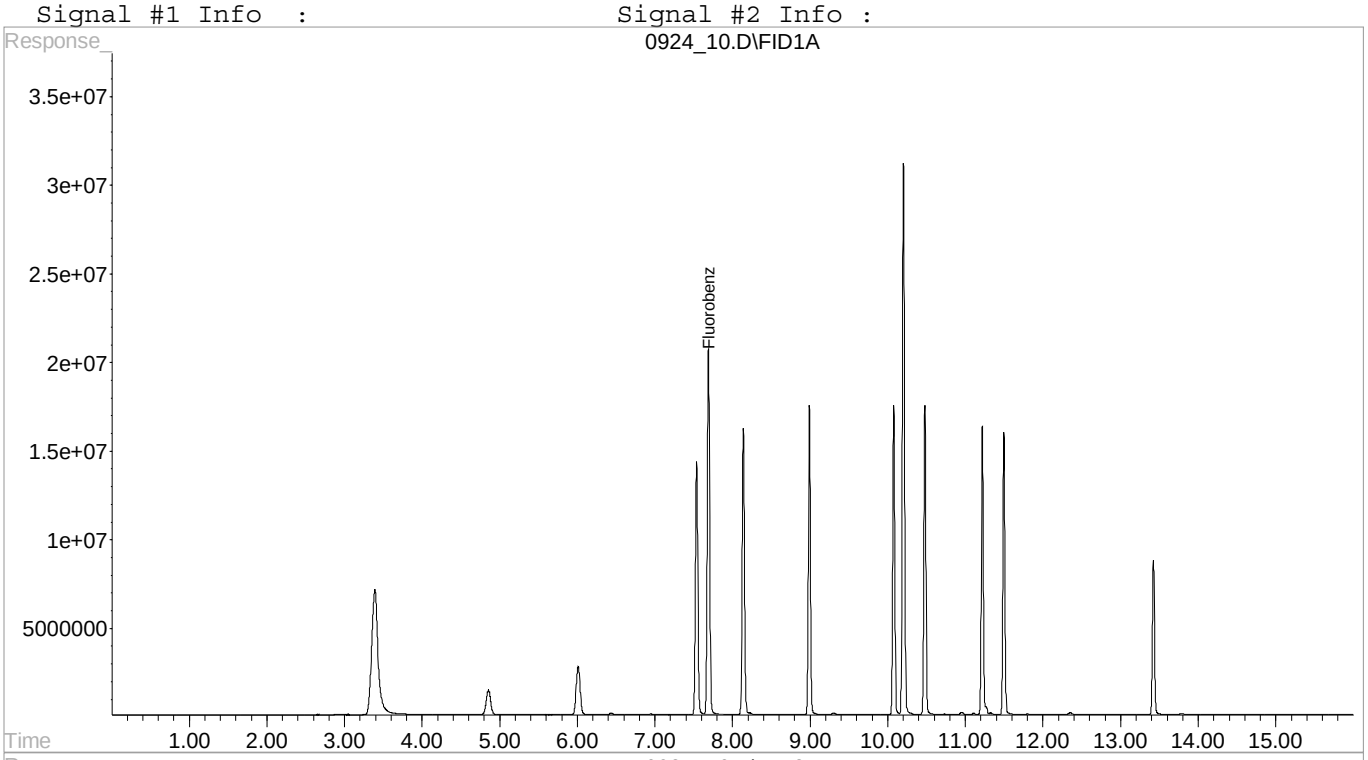
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	428853520	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1408287038	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	332926797	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	778359646	209.5833312	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 104.79%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	2785751060	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	2729084387	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	2271694275	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	2549882995	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	343540940	99.7006311	ppb
11) T,M benzene	7.53	1267678847	97.2581094	ppb
12) T,M toluene	8.99	1233183232	96.3769558	ppb
13) T,M ethylbenzene	10.07	1087807618	95.9617768	ppb
14) T,M m&p-xylene	10.20	2315556116	187.1142670	ppb
15) T,M o-xylene	10.48	1062582409	96.3031928	ppb

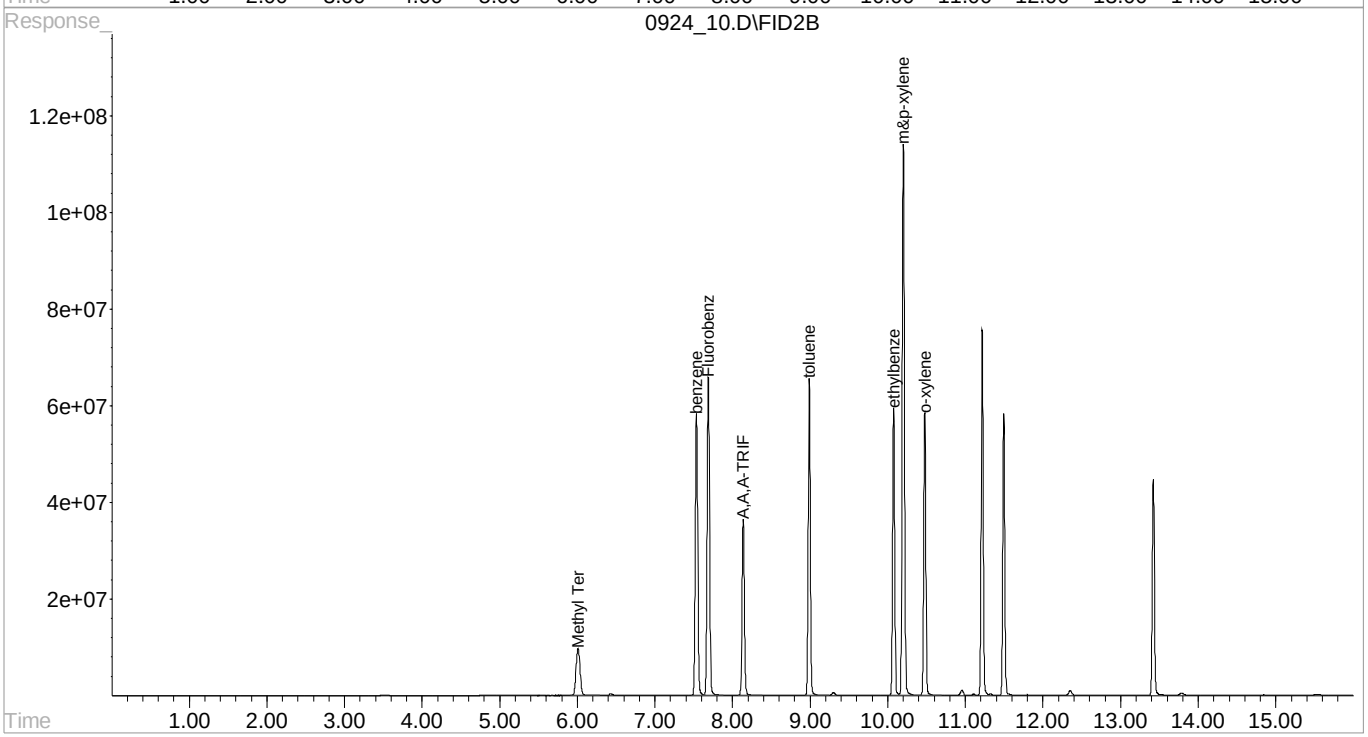
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 10.D\FID1A.CH   Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 10.D\FID2B.CH
Acq On    : 24 Sep 2014  12:39 pm                    Operator: 621
Sample    : STD BTEX 100 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 10.D\FID1A.CH   Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 10.D\FID2B.CH
Acq On    : 24 Sep 2014  12:39 pm                    Operator: 621
Sample    : STD BTEX 100 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:25 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

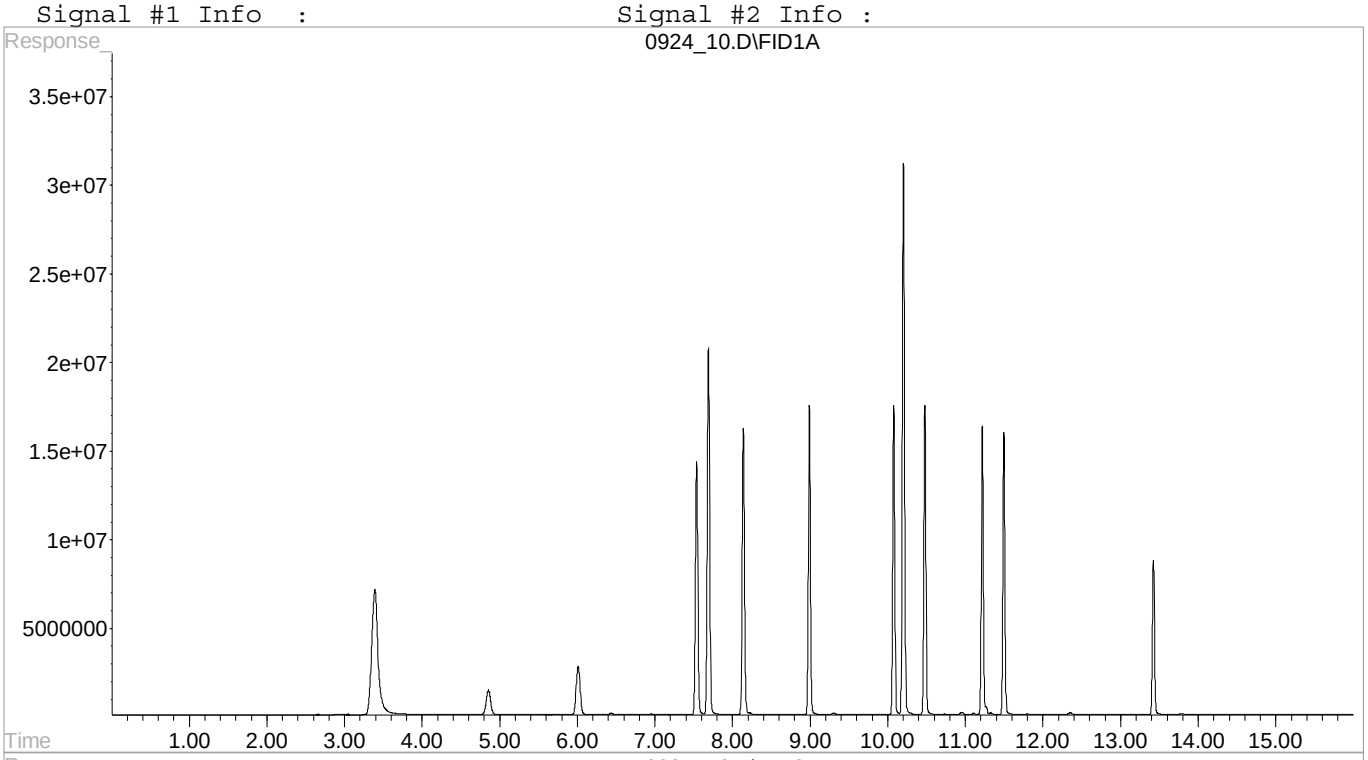
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1408287038	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	778359646	209.5833312	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 104.79%		
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	343540940	99.7006311	ppb
11) T,M benzene	7.53	1267678847	97.2581094	ppb
12) T,M toluene	8.99	1233183232	96.3769558	ppb
13) T,M ethylbenzene	10.07	1087807618	95.9617768	ppb
14) T,M m&p-xylene	10.20	2315556116	187.1142670	ppb
15) T,M o-xylene	10.48	1062582409	96.3031928	ppb

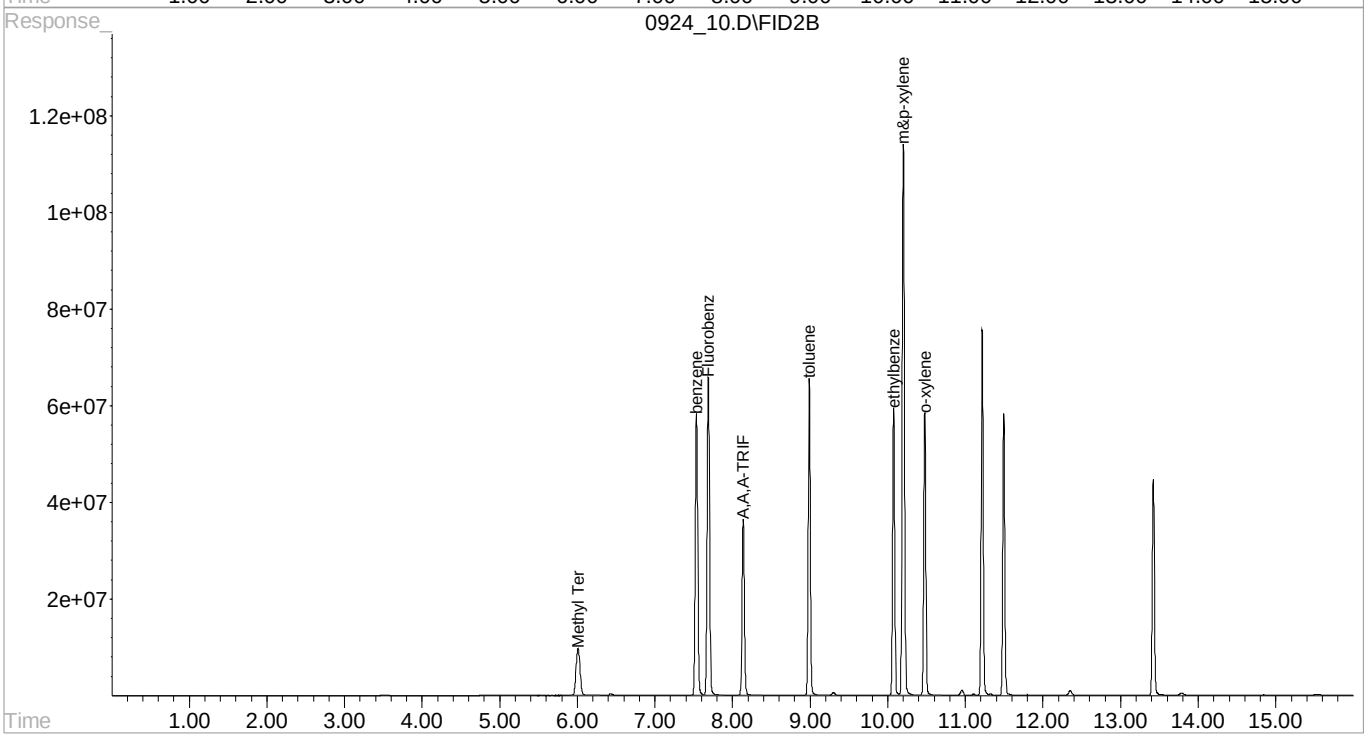
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 10.D\FID2B.CH
Acq On : 24 Sep 2014 12:39 pm Operator: 621
Sample : STD BTEX 100 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:25 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 11.D\FID1A.CH   Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 11.D\FID2B.CH
Acq On    : 24 Sep 2014   1:01 pm                    Operator: 621
Sample    : STD BTEX 150 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

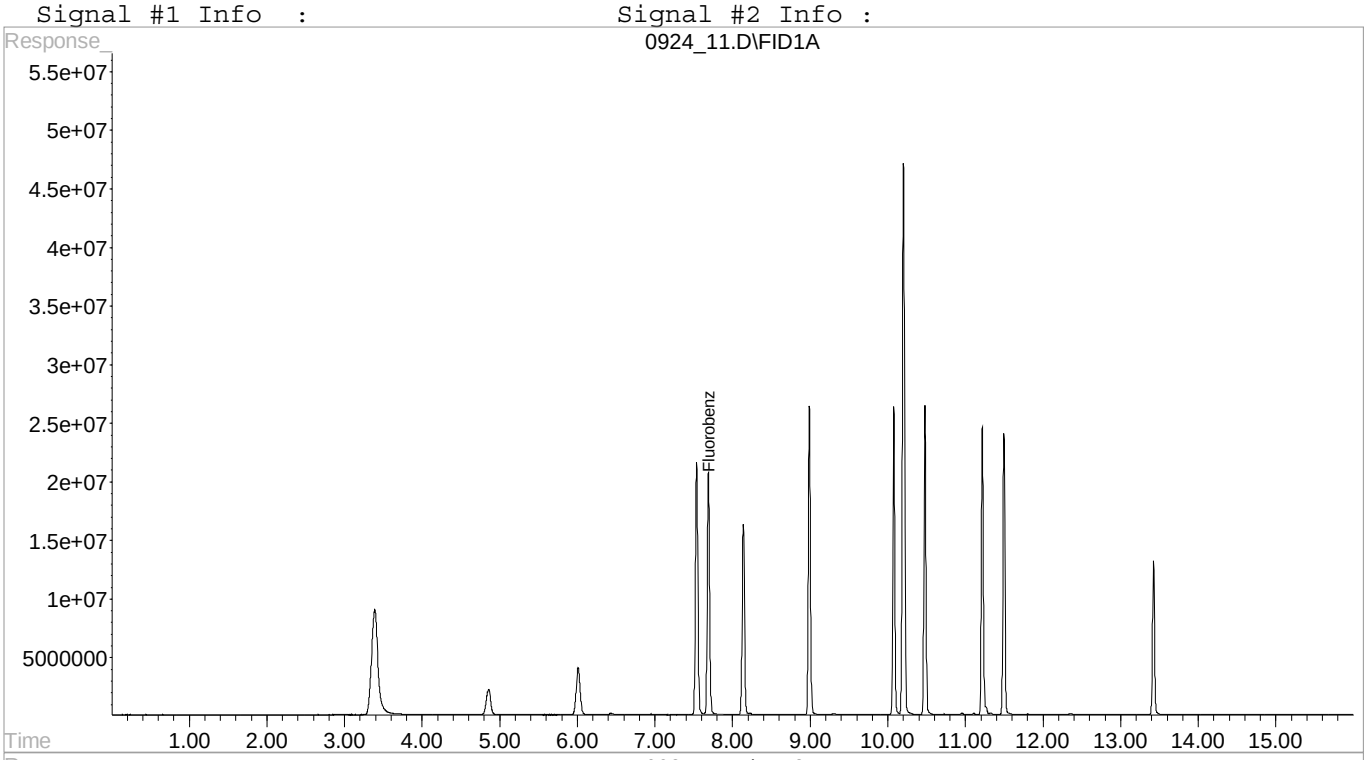
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	430666677	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1419641344	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	334616747	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	785394495	209.7861552	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 104.89%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	4186755148	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	4099773477	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	3420118238	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	3841285303	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	509349699	146.6384987	ppb
11) T,M benzene	7.53	1886711731	143.5934640	ppb
12) T,M toluene	8.99	1815926105	140.7849752	ppb
13) T,M ethylbenzene	10.07	1596666087	139.7245853	ppb
14) T,M m&p-xylene	10.20	3320520014	266.1768235	ppb
15) T,M o-xylene	10.48	1559565356	140.2149065	ppb

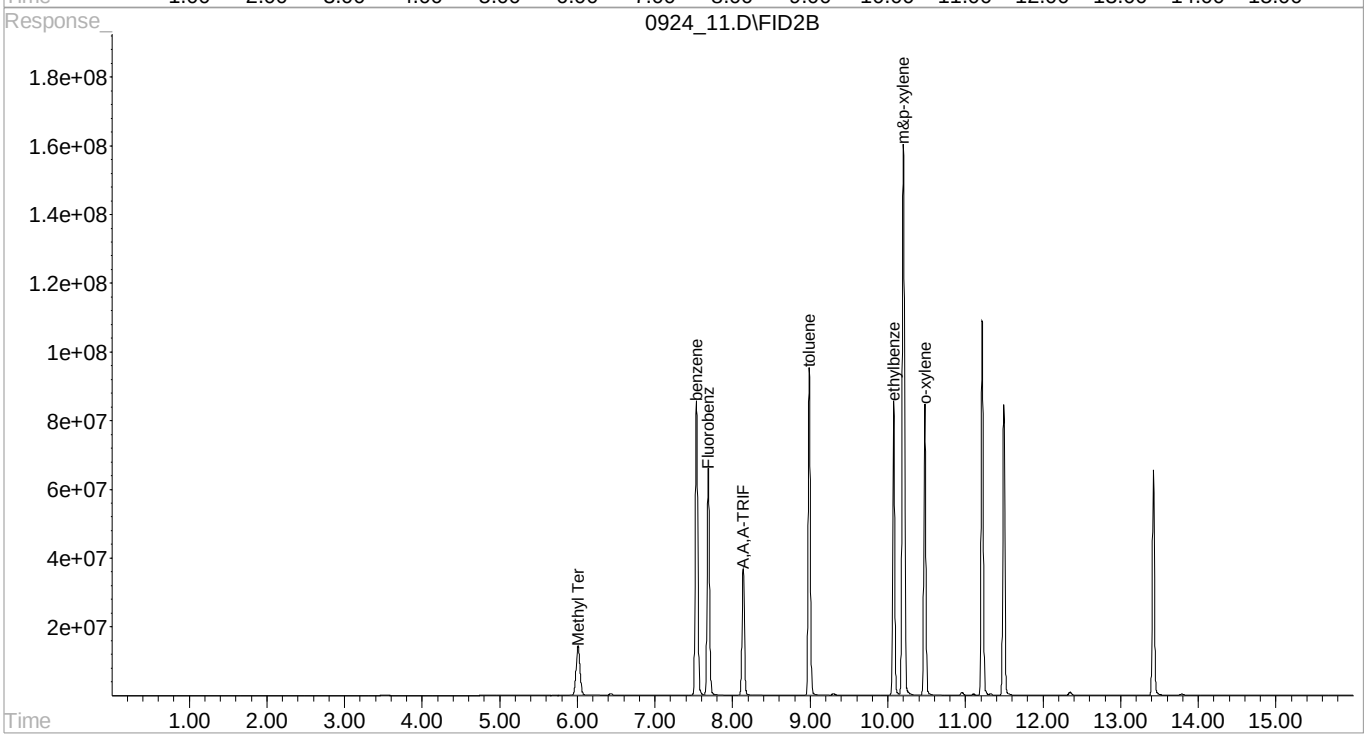
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 11.D\FID1A.CH   Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 11.D\FID2B.CH
Acq On    : 24 Sep 2014   1:01 pm                    Operator: 621
Sample    : STD BTEX 150 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 11.D\FID1A.CH   Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 11.D\FID2B.CH
Acq On    : 24 Sep 2014   1:01 pm                    Operator: 621
Sample    : STD BTEX 150 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:25 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

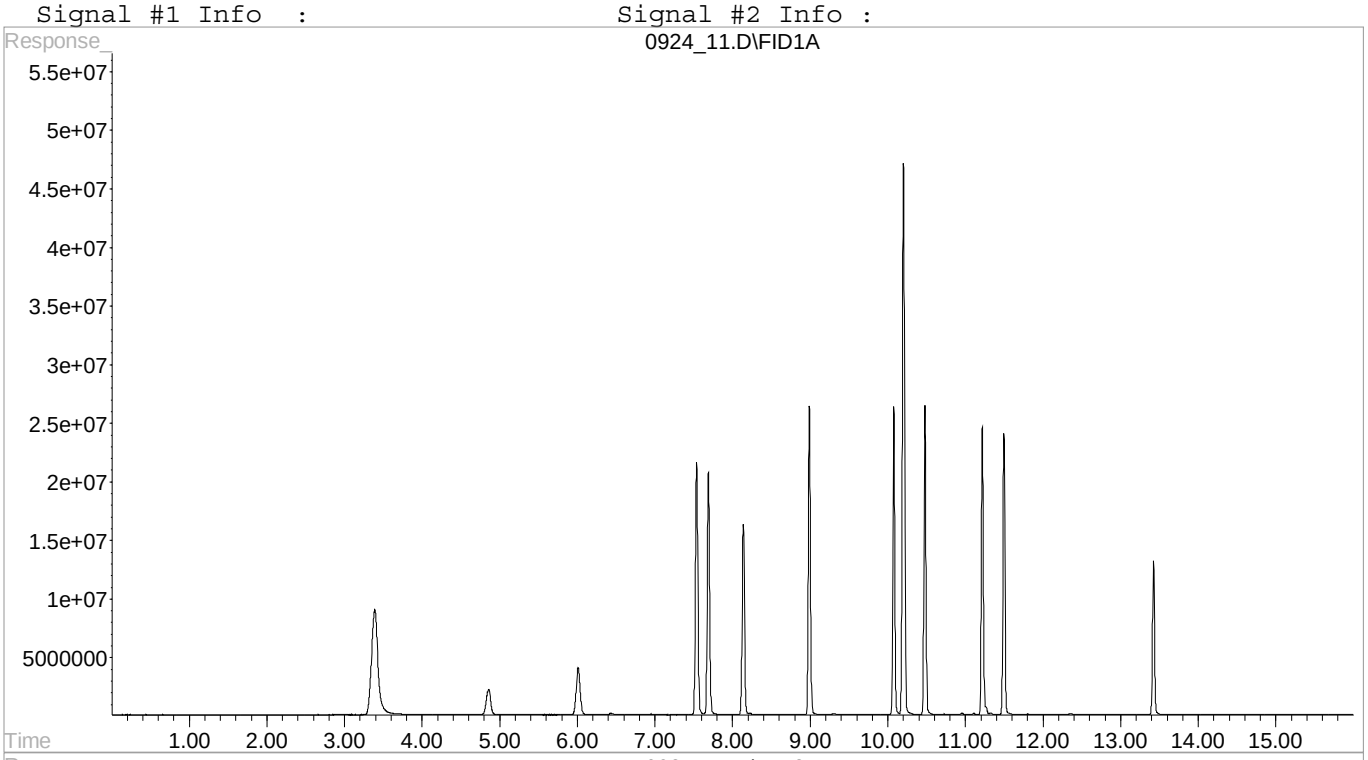
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1419641344	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	785394495	209.7861552	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 104.89%		
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	509349699	146.6384987	ppb
11) T,M benzene	7.53	1886711731	143.5934640	ppb
12) T,M toluene	8.99	1815926105	140.7849752	ppb
13) T,M ethylbenzene	10.07	1596666087	139.7245853	ppb
14) T,M m&p-xylene	10.20	3320520014	266.1768235	ppb
15) T,M o-xylene	10.48	1559565356	140.2149065	ppb

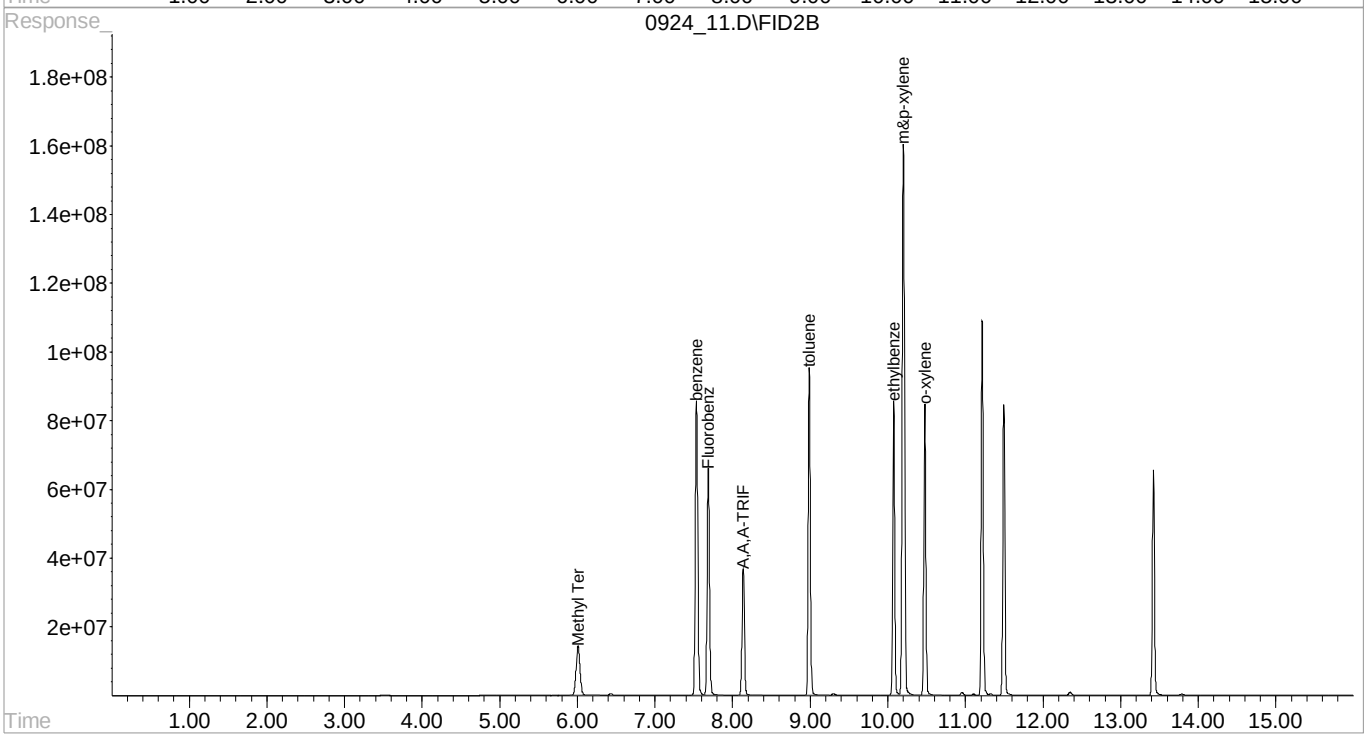
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 11.D\FID1A.CH   Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 11.D\FID2B.CH
Acq On    : 24 Sep 2014   1:01 pm                    Operator: 621
Sample    : STD BTEX 150 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:25 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 12.D\FID1A.CH   Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 12.D\FID2B.CH
Acq On    : 24 Sep 2014   1:24 pm                    Operator: 621
Sample    : STD BTEX 200 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

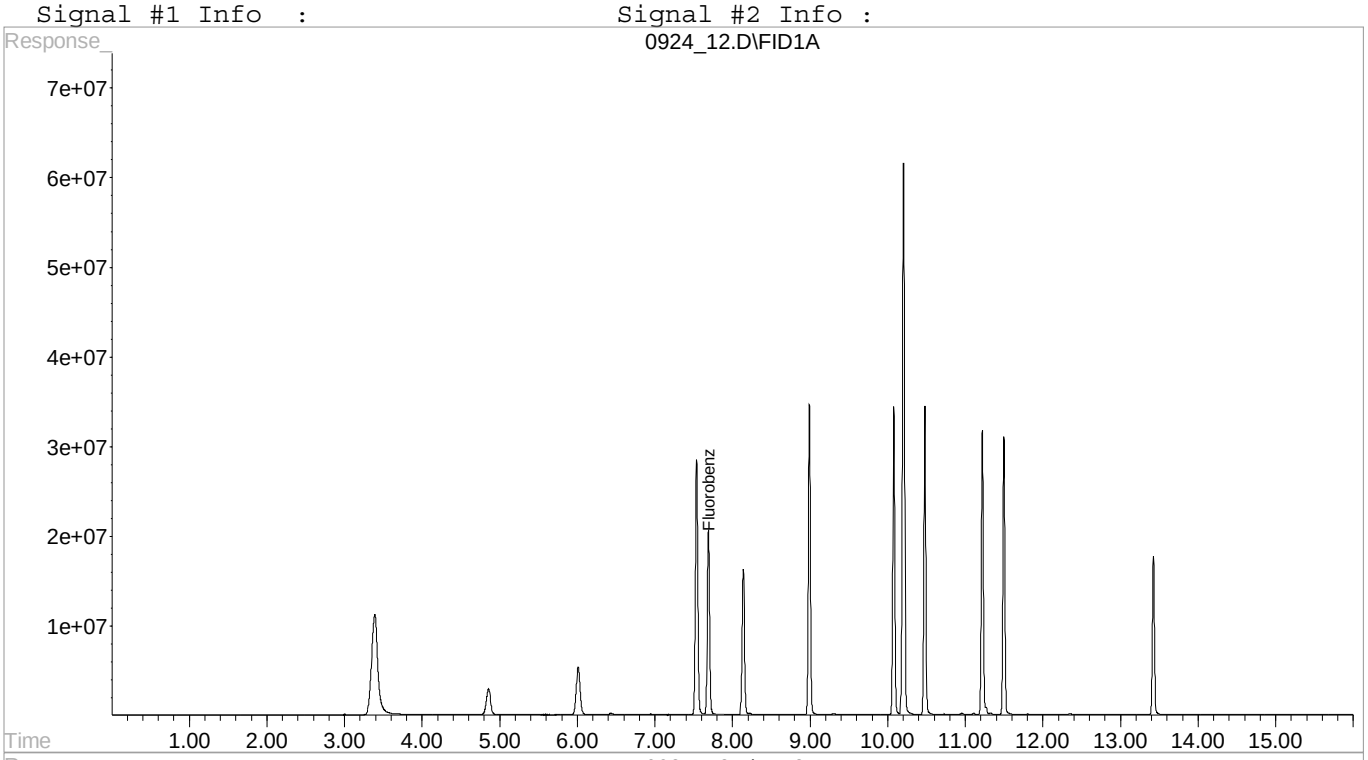
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	426882409	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1410890124	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	337485906	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	783357804	210.5399863	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.27%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	5464026881	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	5351810259	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	4461992807	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	5006092191	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	660847151	191.4337115	ppb
11) T,M benzene	7.53	2429973904	186.0870614	ppb
12) T,M toluene	8.99	2322413990	181.1687221	ppb
13) T,M ethylbenzene	10.08	2029373886	178.6924656	ppb
14) T,M m&p-xylene	10.20	4141819213	334.0724942	ppb
15) T,M o-xylene	10.48	1983227953	179.4108434	ppb

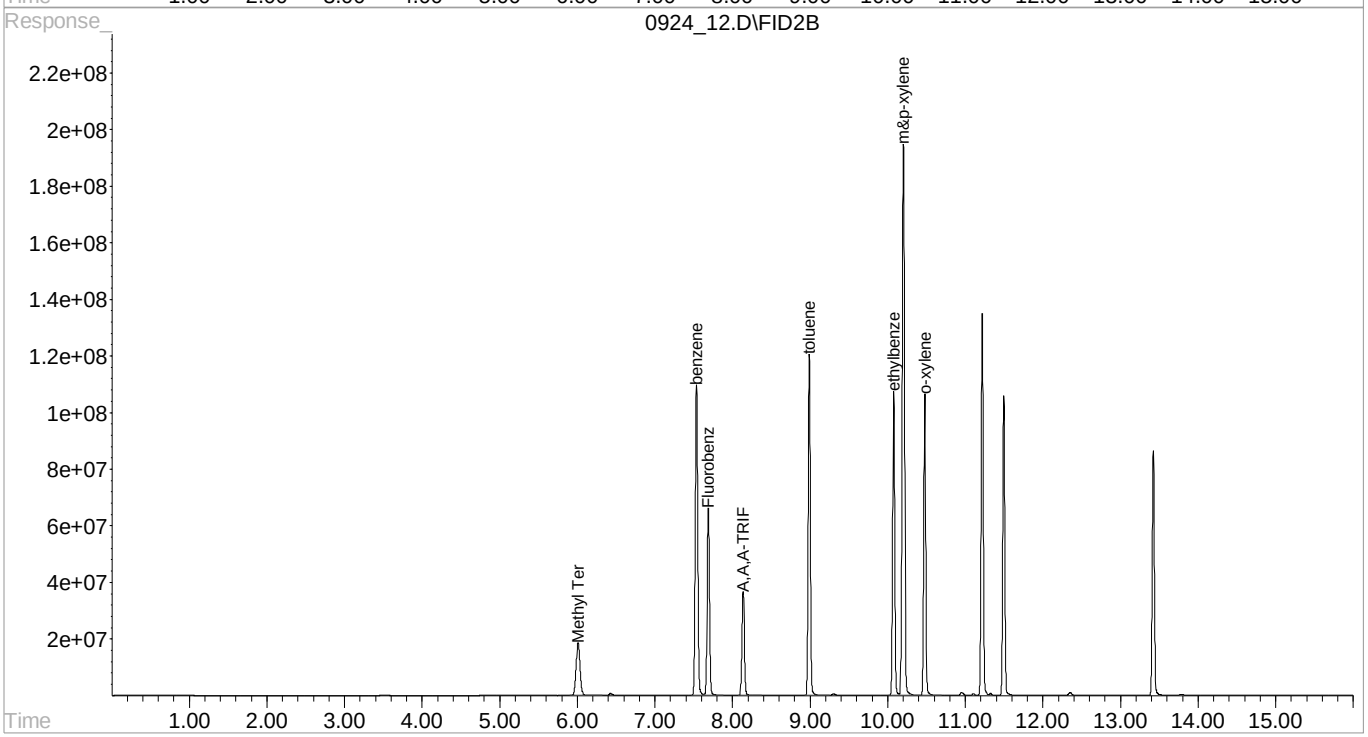
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 12.D\FID1A.CH   Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 12.D\FID2B.CH
Acq On    : 24 Sep 2014   1:24 pm                    Operator: 621
Sample    : STD BTEX 200 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 12.D\FID1A.CH   Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 12.D\FID2B.CH
Acq On    : 24 Sep 2014   1:24 pm                    Operator: 621
Sample    : STD BTEX 200 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:26 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

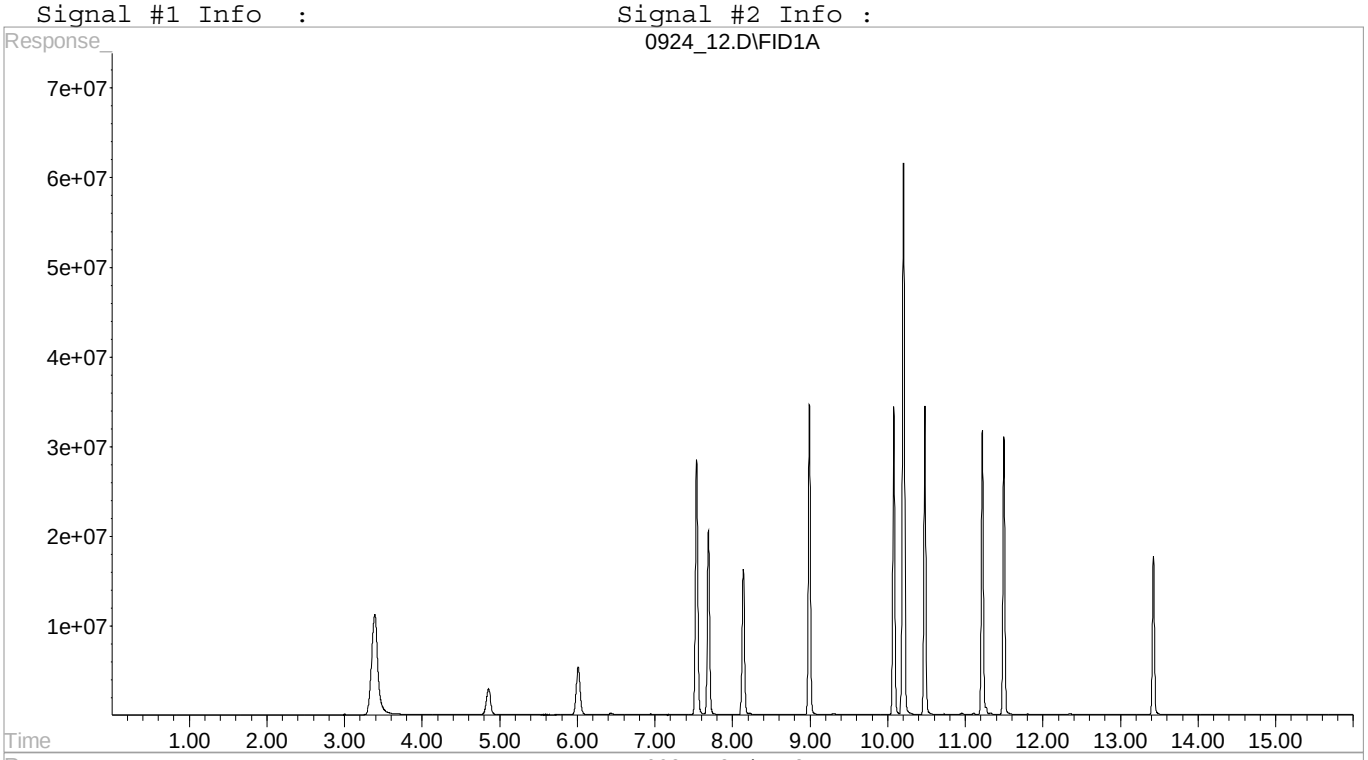
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	7.69	1410890124	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
	Spiked Amount 200.000 Range 70 - 130		Recovery =	0.00%#	
9)	S A,A,A-TRIFLUOROTOLUENE(PID	8.14	783357804	210.5399863	ppb
	Spiked Amount 200.000 Range 54 - 144		Recovery =	105.27%	
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	6.01	660847151	191.4337115	ppb
11)	T,M benzene	7.53	2429973904	186.0870614	ppb
12)	T,M toluene	8.99	2322413990	181.1687221	ppb
13)	T,M ethylbenzene	10.08	2029373886	178.6924656	ppb
14)	T,M m&p-xylene	10.20	4141819213	334.0724942	ppb
15)	T,M o-xylene	10.48	1983227953	179.4108434	ppb

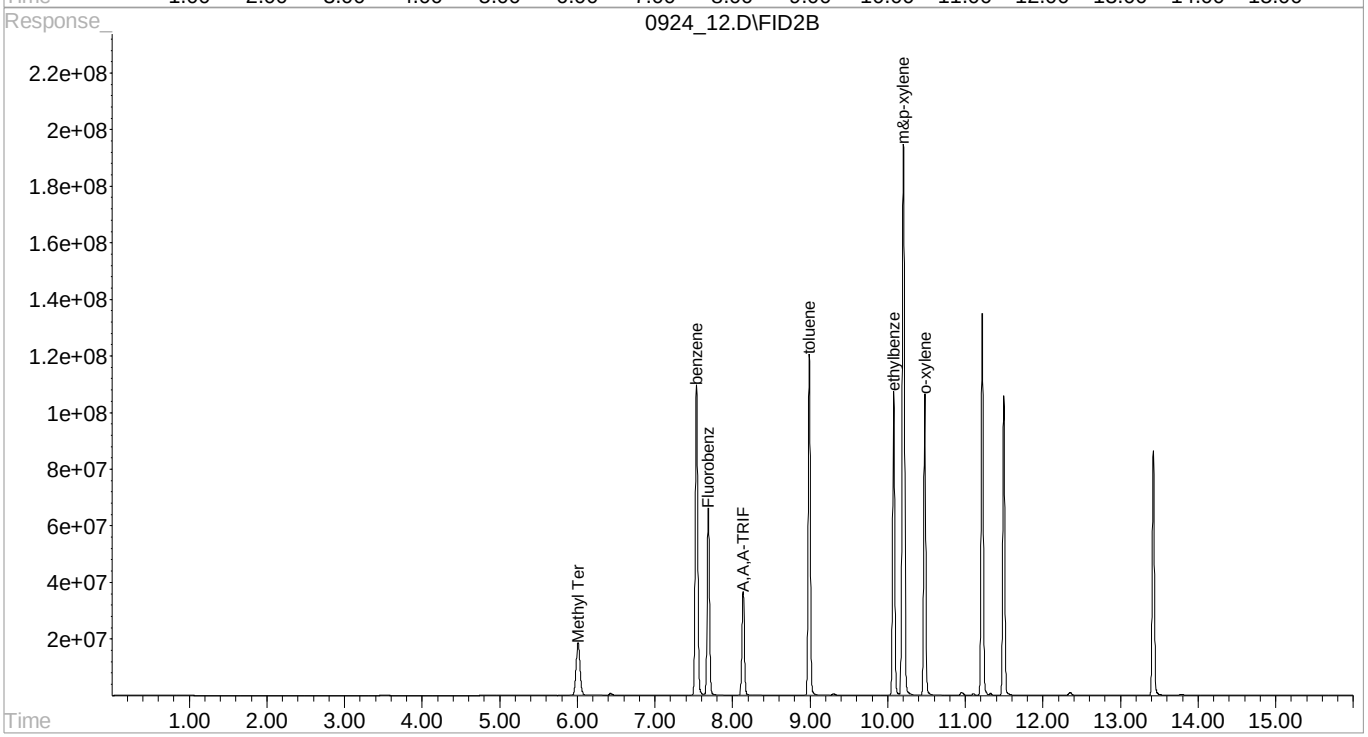
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 12.D\FID2B.CH
Acq On : 24 Sep 2014 1:24 pm Operator: 621
Sample : STD BTEX 200 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:26 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 13.D\FID2B.CH
Acq On : 24 Sep 2014 1:46 pm Operator: 621
Sample : STD BTEX 250 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

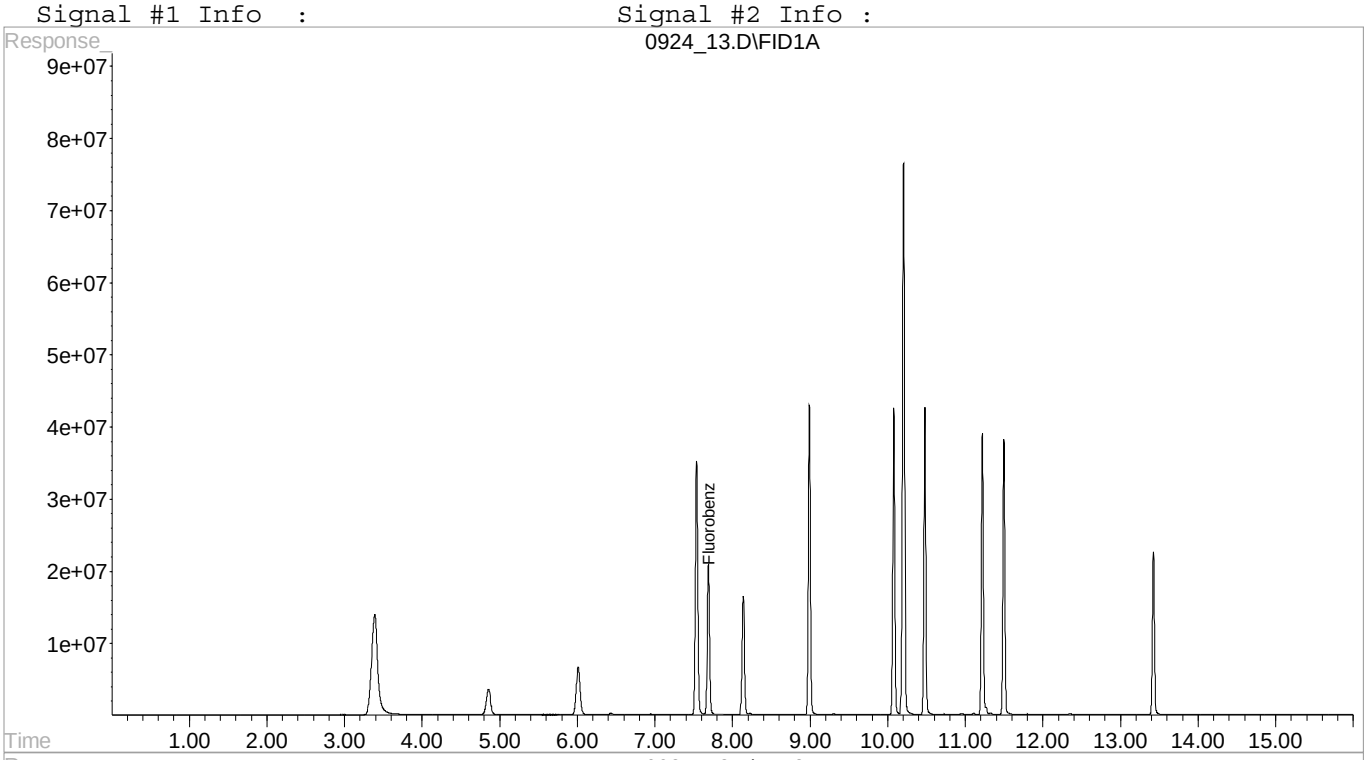
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	431689227	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1430037371	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	343116389	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	797781504	211.5456920	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.77%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	6775871400	NoCal	ppm
3) H,M TPHG C6 - C12	6.53	6637272241	NoCal	ppm
4) H,M TPHGAK C6 to C10	6.53	5528311382	NoCal	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	6197891508	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	815920601	233.1906336	ppb
11) T,M benzene	7.53	2964616098	223.9901069	ppb
12) T,M toluene	8.99	2810799948	216.3312827	ppb
13) T,M ethylbenzene	10.08	2439385927	211.9192919	ppb
14) T,M m&p-xylene	10.20	4896697304	389.6715024	ppb
15) T,M o-xylene	10.48	2387877632	213.1247695	ppb

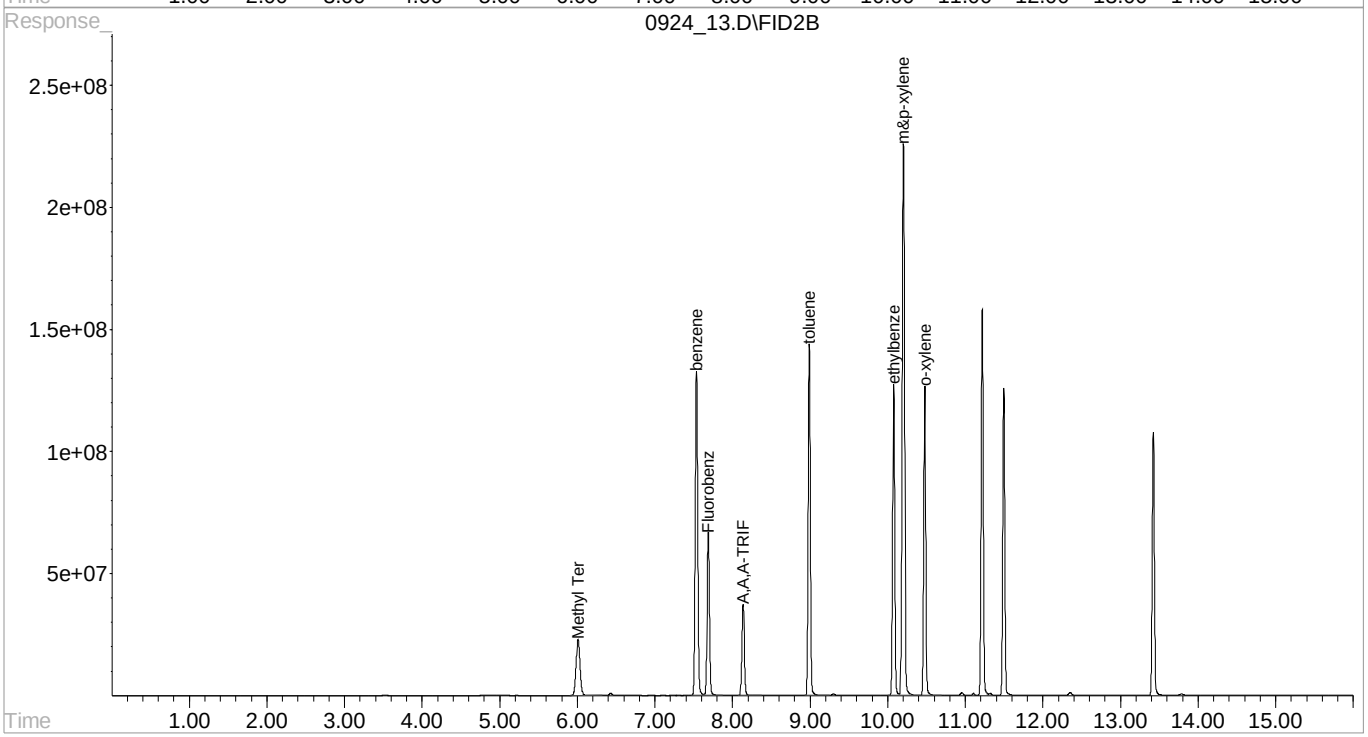
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\092414\0924 13.D\FID1A.CH   Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 13.D\FID2B.CH
Acq On    : 24 Sep 2014   1:46 pm                    Operator: 621
Sample    : STD BTEX 250 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:23 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 13.D\FID1A.CH   Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 13.D\FID2B.CH
Acq On    : 24 Sep 2014   1:46 pm                    Operator: 621
Sample    : STD BTEX 250 ppm 14G09861                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:26 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:23:04 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                   Signal #2 Phase:
Signal #1 Info  :                   Signal #2 Info :
```

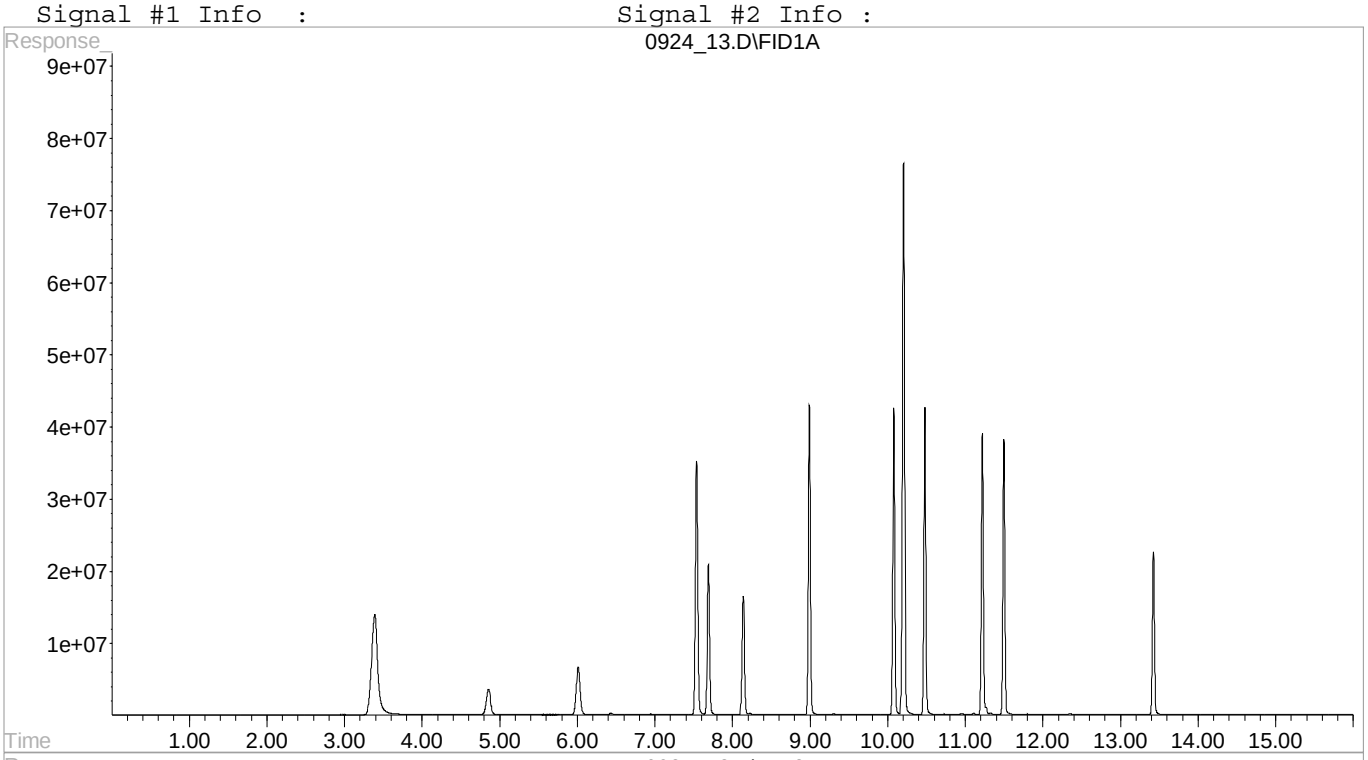
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1430037371	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	797781504	211.5456920	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.77%		
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	815920601	233.1906336	ppb
11) T,M benzene	7.53	2964616098	223.9901069	ppb
12) T,M toluene	8.99	2810799948	216.3312827	ppb
13) T,M ethylbenzene	10.08	2439385927	211.9192919	ppb
14) T,M m&p-xylene	10.20	4896697304	389.6715024	ppb
15) T,M o-xylene	10.48	2387877632	213.1247695	ppb

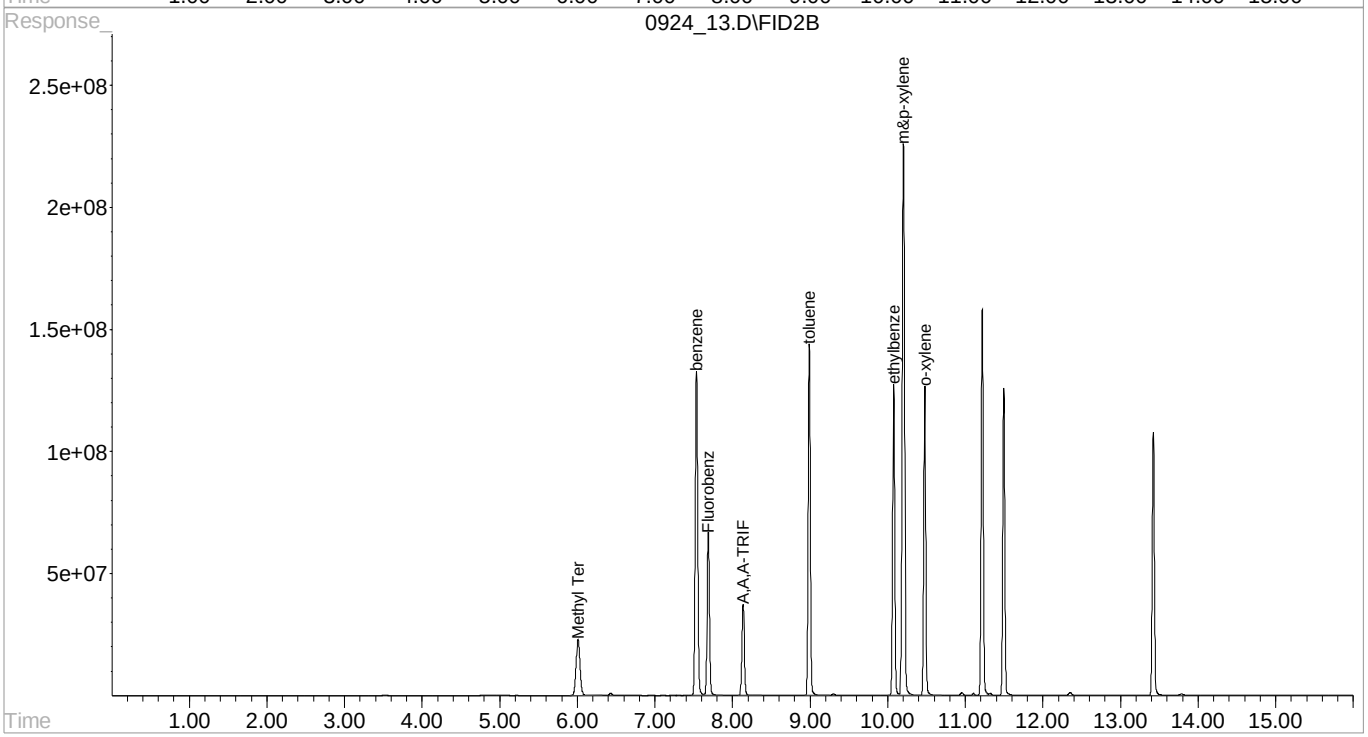
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 13.D\FID2B.CH
Acq On : 24 Sep 2014 1:46 pm Operator: 621
Sample : STD BTEX 250 ppm 14G09861 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:26 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:23:04 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 18.D\FID1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 18.D\FID2B.CH
Acq On : 24 Sep 2014 3:38 pm Operator: 621
Sample : STD GRO .055 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:27 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

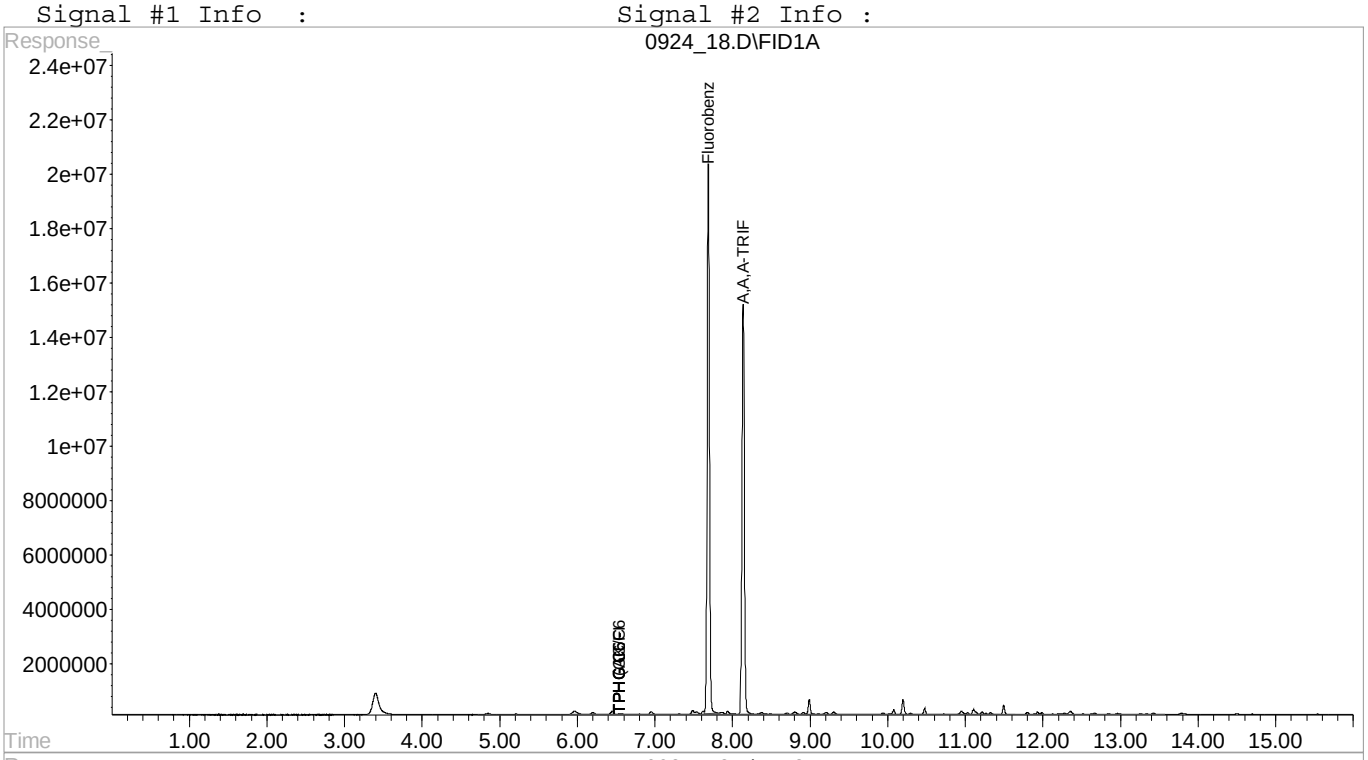
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	417751097	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1372188808	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	314861348	178.2666750	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 89.13%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	727031036	202.3366544	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.17%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	154495549	0.0782280	ppm
3) H,M TPHG C6 - C12	6.53	148275871	0.0772784	ppm
4) H,M TPHGAK C6 to C10	6.53	114386923	0.0736744	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	121254443	0.0735386	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	6029751	1.7969834	ppb
11) T,M benzene	7.53	9296472	0.7239895	ppb
12) T,M toluene	8.99	41594835	3.3340274	ppb
13) T,M ethylbenzene	10.07	11696129	1.0628105	ppb
14) T,M m&p-xylene	10.19	45510785	3.7746567	ppb
15) T,M o-xylene	10.47	14916240	1.3694556	ppb

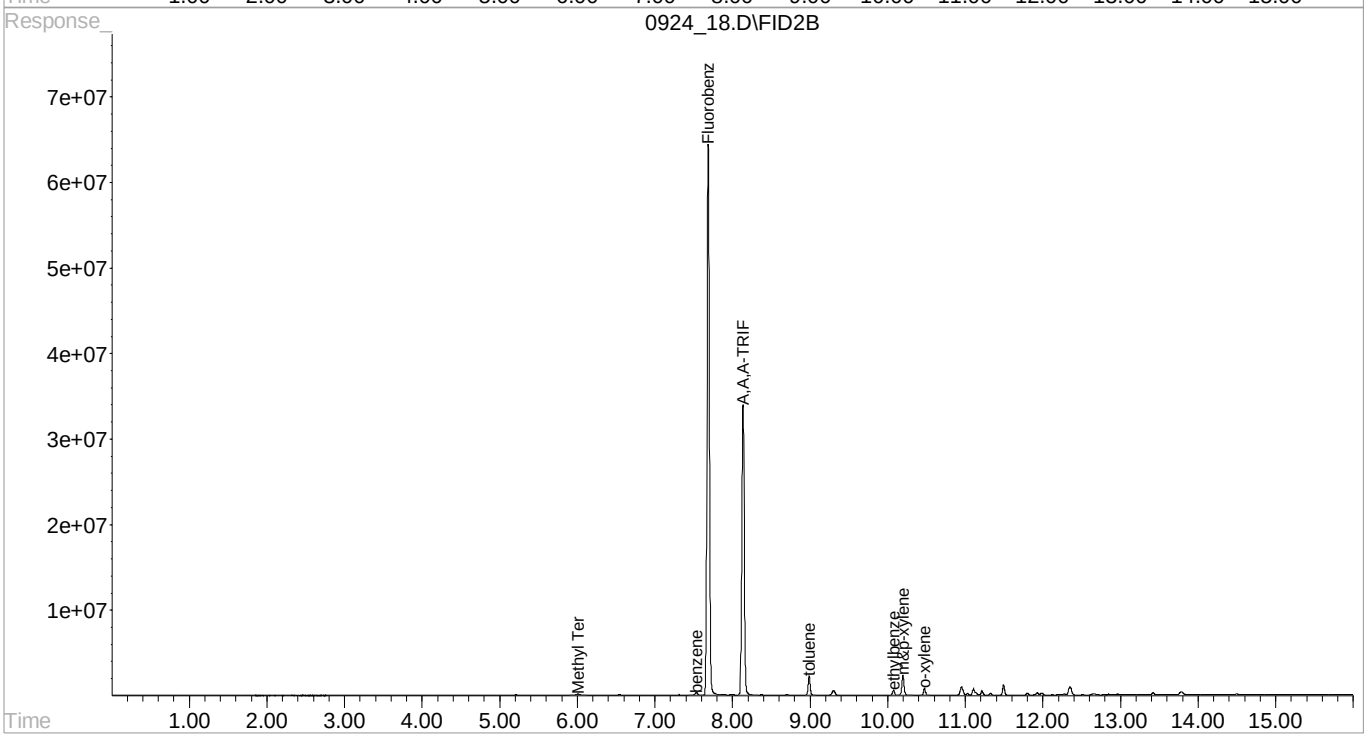
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 18.D\FID1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 18.D\FID2B.CH
Acq On : 24 Sep 2014 3:38 pm Operator: 621
Sample : STD GRO .055 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:27 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\092414\0924 18.D\FID1A.CH   Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 18.D\FID2B.CH
Acq On    : 24 Sep 2014   3:38 pm                    Operator: 621
Sample    : STD GRO .055 ppm 14I24980                Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

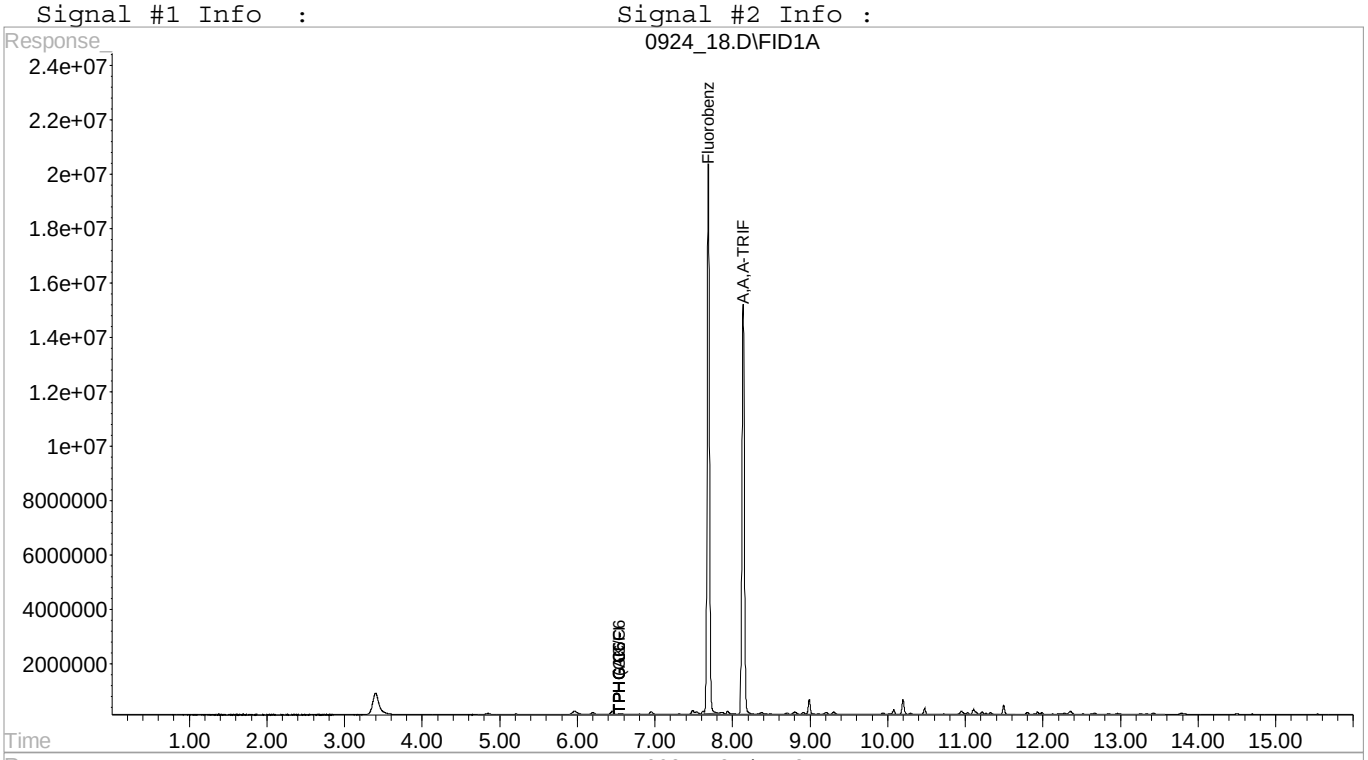
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	417751097	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	314861348	178.2666750	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	89.13%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	6.53	154495549	0.0782280	ppm
3) H,M TPHG C6 - C12	6.53	148275871	0.0772784	ppm
4) H,M TPHGAK C6 to C10	6.53	114386923	0.0736744	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	121254443	0.0735386	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d

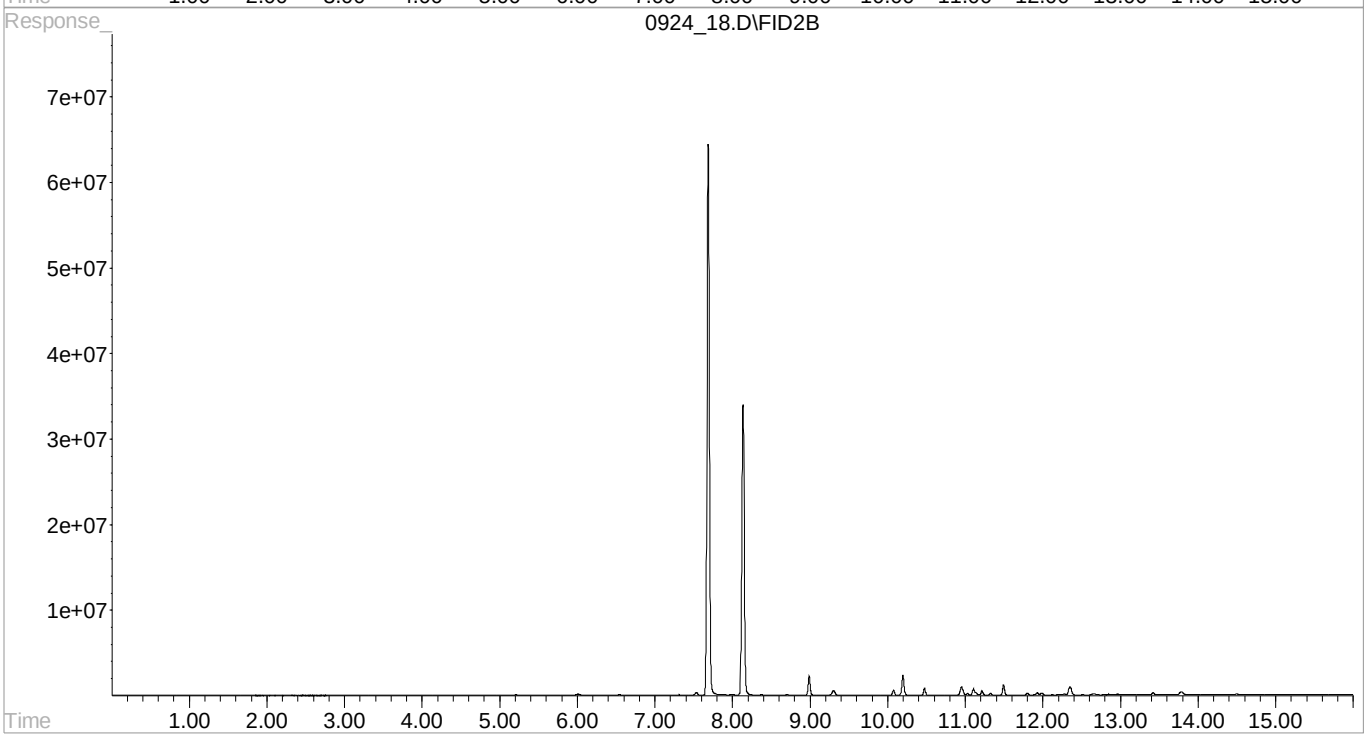
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 18.D\FID1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 18.D\FID2B.CH
Acq On : 24 Sep 2014 3:38 pm Operator: 621
Sample : STD GRO .055 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 19.D\FID1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 19.D\FID2B.CH
Acq On : 24 Sep 2014 4:00 pm Operator: 621
Sample : STD GRO .11 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

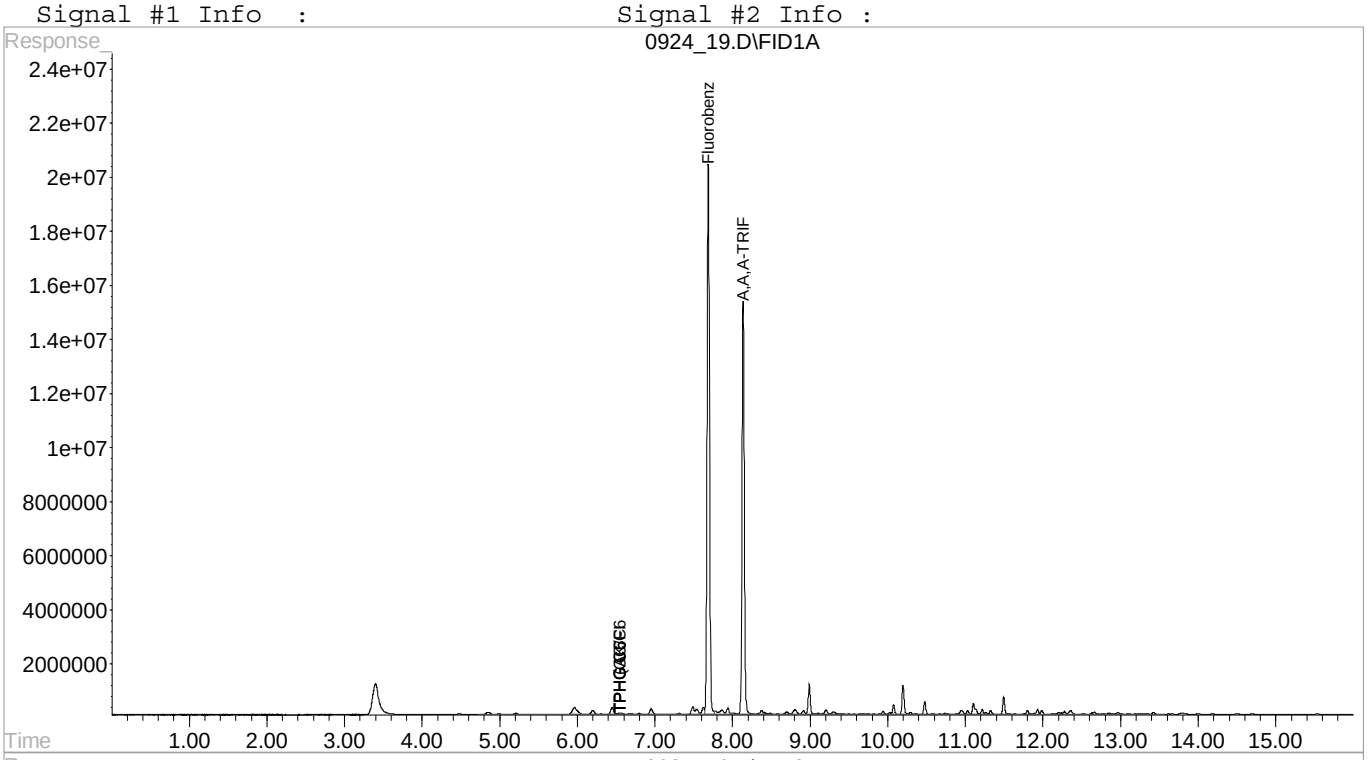
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	421433003	200.0000000 ppb
8) I Fluorobenzene #2	7.68	1373910042	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	319310332	179.2061219 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 89.60%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	733984002	204.0157906 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 102.01%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	272003766	0.1365244 ppm
3) H,M TPHG C6 - C12	6.53	265779598	0.1373089 ppm
4) H,M TPHGAK C6 to C10	6.53	209885727	0.1340023 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	222831352	0.1339625 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	13063711	3.8883632 ppb
11) T,M benzene	7.53	17716602	1.3780027 ppb
12) T,M toluene	8.99	83546804	6.6882914 ppb
13) T,M ethylbenzene	10.07	23107572	2.0971215 ppb
14) T,M m&p-xylene	10.19	89572751	7.4198413 ppb
15) T,M o-xylene	10.47	29391456	2.6950404 ppb

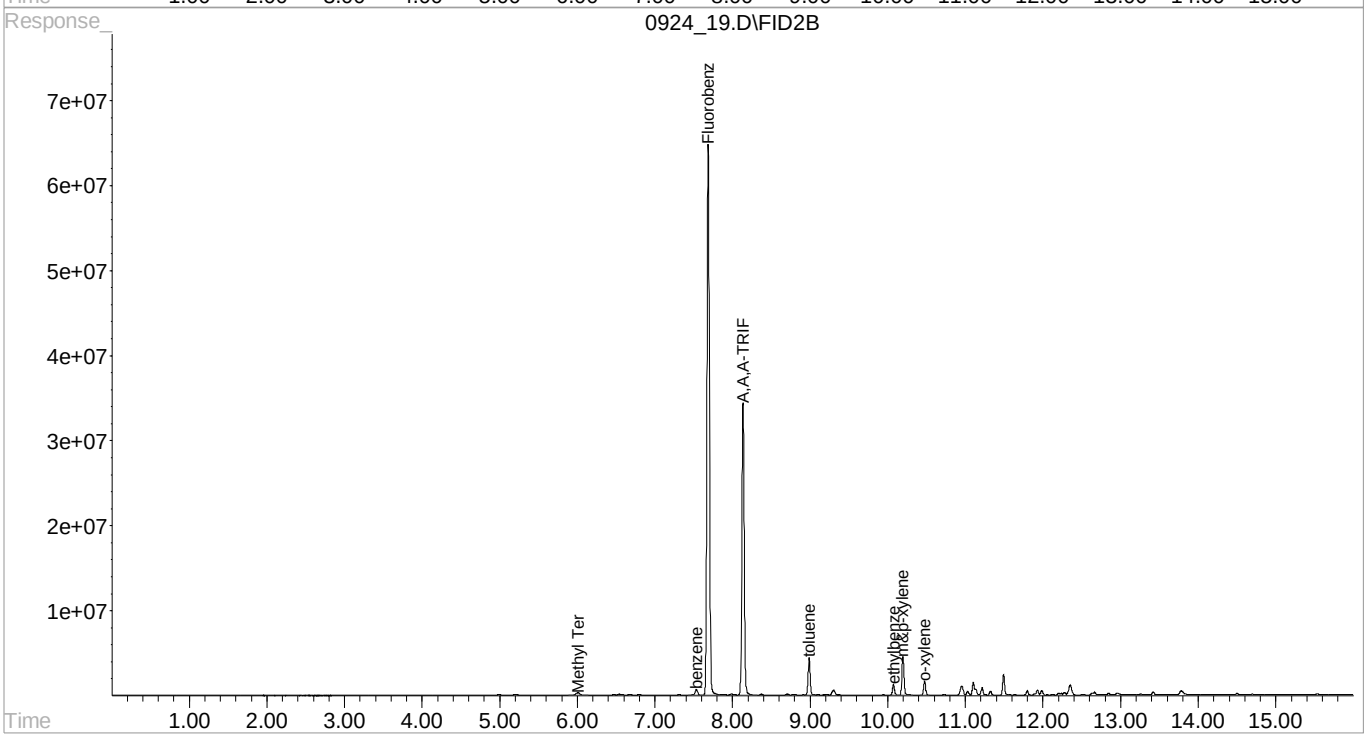
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 19.D\FID1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 19.D\FID2B.CH
Acq On : 24 Sep 2014 4:00 pm Operator: 621
Sample : STD GRO .11 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\092414\0924 19.D\FID1A.CH   Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 19.D\FID2B.CH
Acq On    : 24 Sep 2014   4:00 pm                    Operator: 621
Sample    : STD GRO .11 ppm 14I24980                 Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

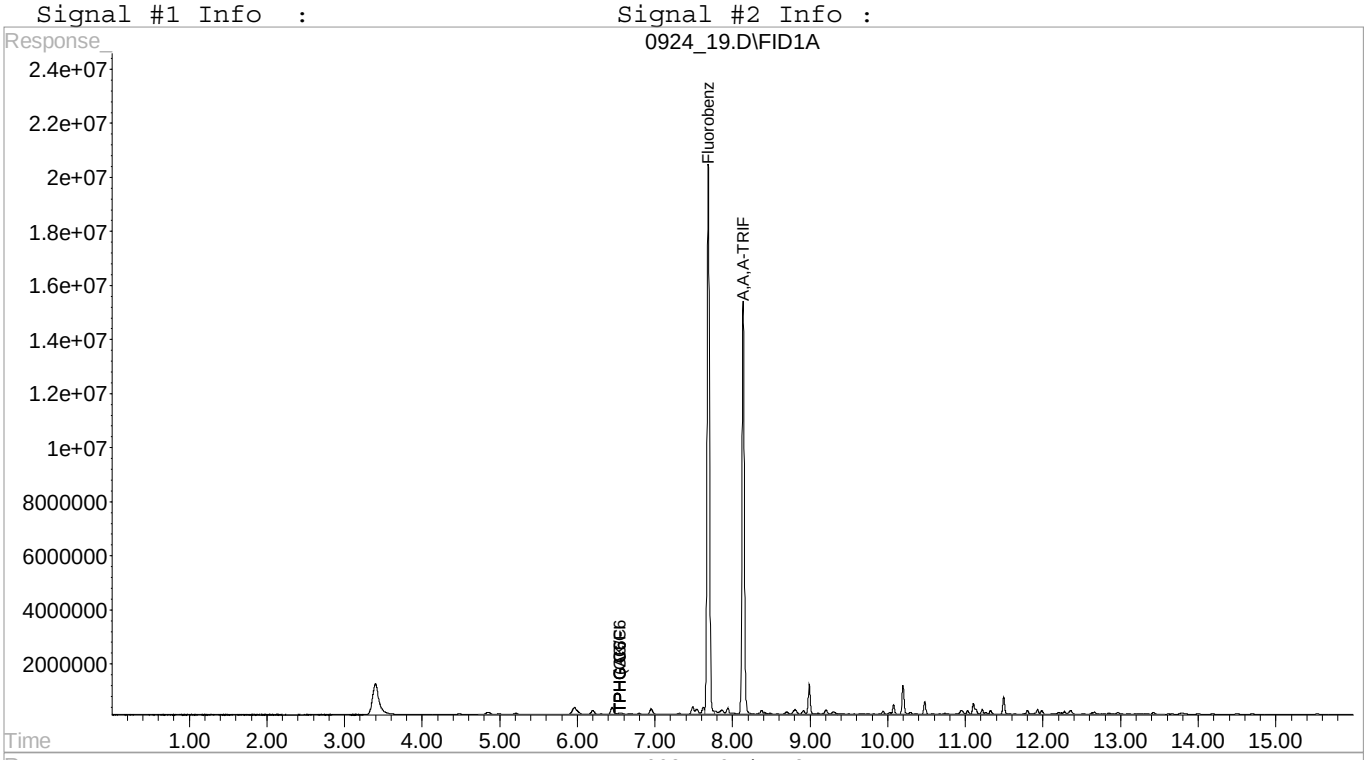
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	421433003	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	319310332	179.2061219	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	89.60%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	6.53	272003766	0.1365244	ppm
3) H,M TPHG C6 - C12	6.53	265779598	0.1373089	ppm
4) H,M TPHGAK C6 to C10	6.53	209885727	0.1340023	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	222831352	0.1339625	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d

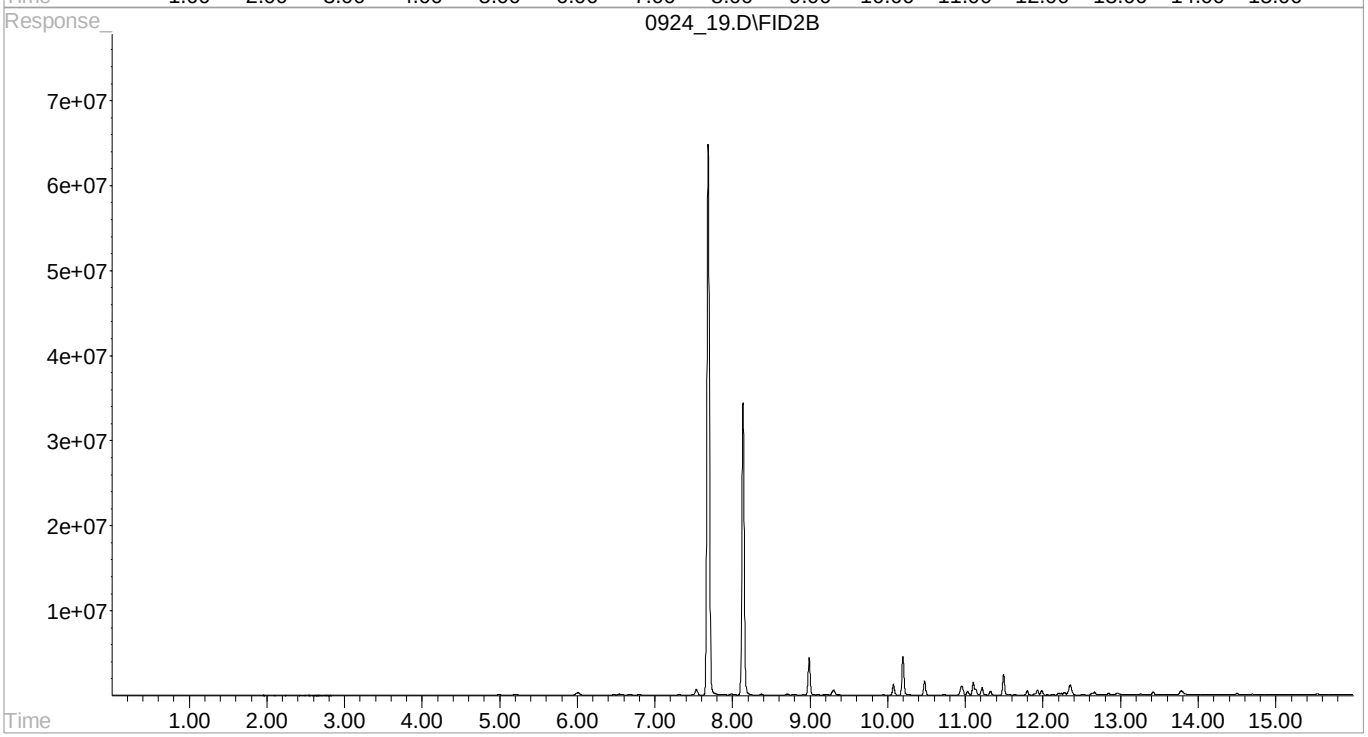
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 19.D\FID1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 19.D\FID2B.CH
Acq On : 24 Sep 2014 4:00 pm Operator: 621
Sample : STD GRO .11 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 20.D\FID1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 20.D\FID2B.CH
Acq On : 24 Sep 2014 4:23 pm Operator: 621
Sample : STD GRO .55 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

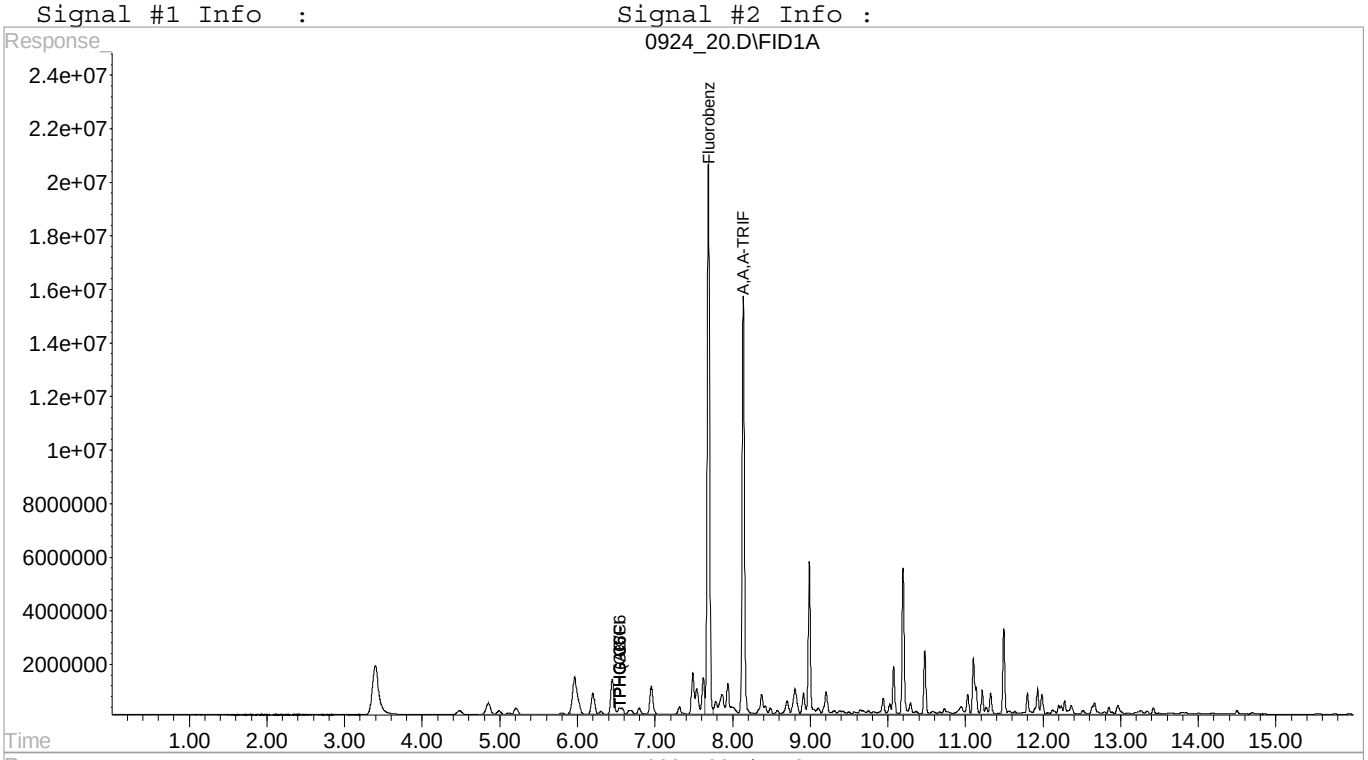
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	427710675	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1388226489	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	333014278	184.1540091	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 92.08%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	764662472	210.3511718	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.18%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	1245440155	0.6159377	ppm
3) H,M TPHG C6 - C12	6.53	1214581198	0.6182754	ppm
4) H,M TPHGAK C6 to C10	6.53	994443084	0.6255868	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	1056933571	0.6260847	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	67059997	19.7543060	ppb
11) T,M benzene	7.53	92058898	7.0865258	ppb
12) T,M toluene	8.99	423366603	33.5428461	ppb
13) T,M ethylbenzene	10.07	118219850	10.6183653	ppb
14) T,M m&p-xylene	10.19	440928671	36.1480618	ppb
15) T,M o-xylene	10.47	149193887	13.5392055	ppb

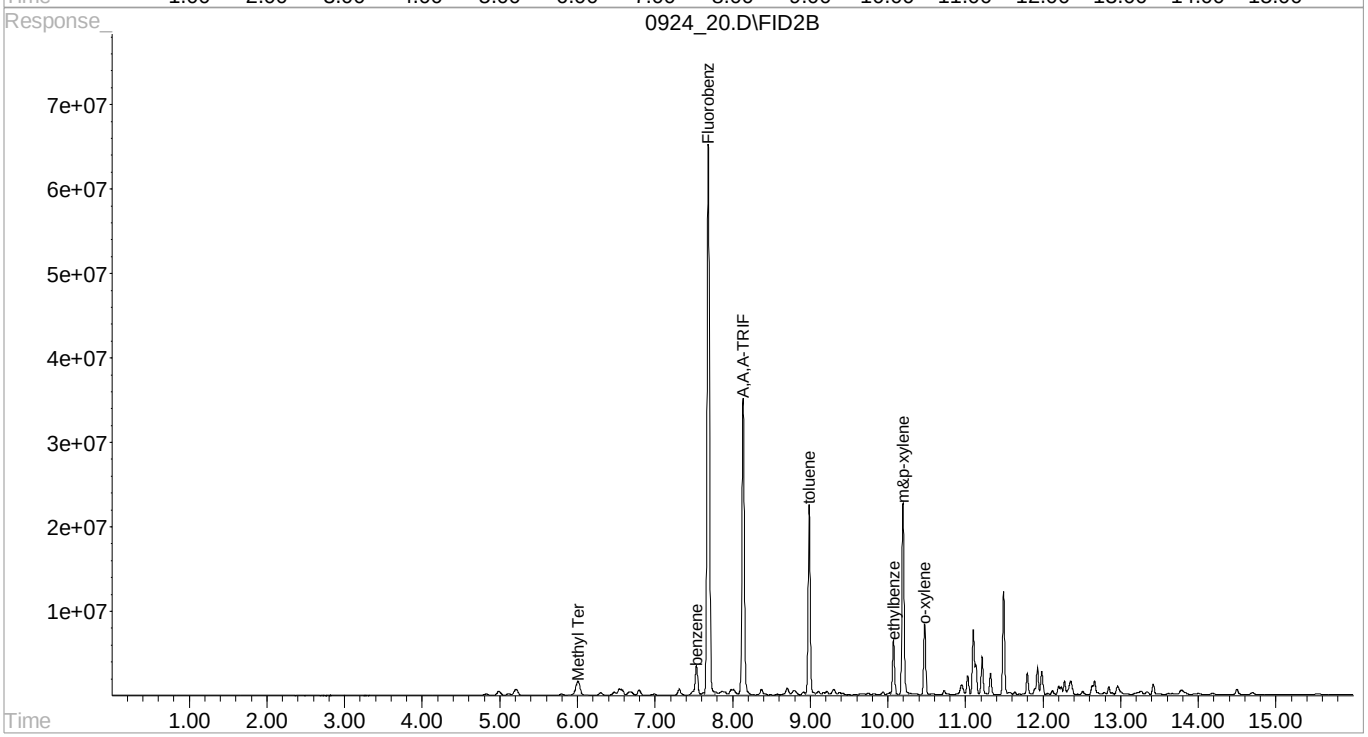
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 20.D\FID1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 20.D\FID2B.CH
Acq On : 24 Sep 2014 4:23 pm Operator: 621
Sample : STD GRO .55 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 20.D\FID1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 20.D\FID2B.CH
Acq On : 24 Sep 2014 4:23 pm Operator: 621
Sample : STD GRO .55 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:29 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

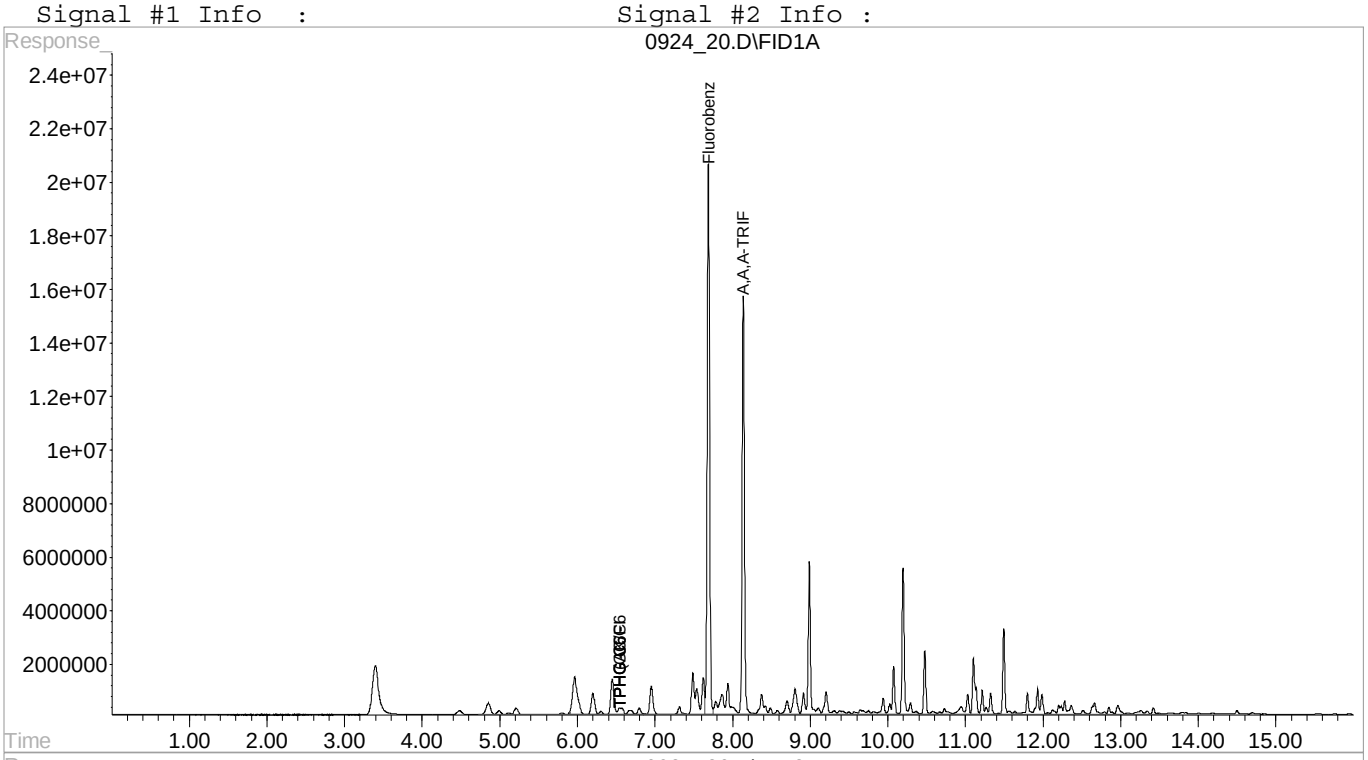
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	427710675	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	333014278	184.1540091	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	92.08%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	6.53	1245440155	0.6159377	ppm
3) H,M TPHG C6 - C12	6.53	1214581198	0.6182754	ppm
4) H,M TPHGAK C6 to C10	6.53	994443084	0.6255868	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	1056933571	0.6260847	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d

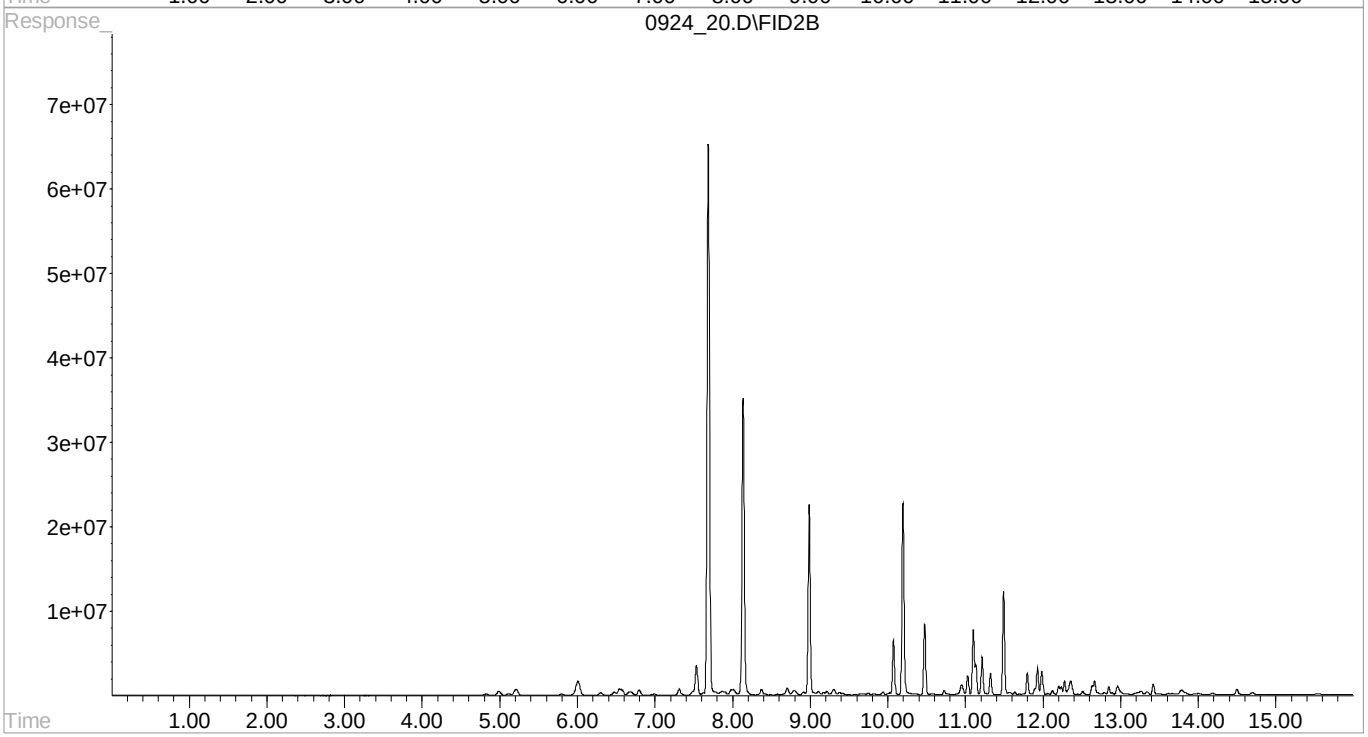
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 20.D\FID1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 20.D\FID2B.CH
Acq On : 24 Sep 2014 4:23 pm Operator: 621
Sample : STD GRO .55 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:29 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 21.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 21.D\FID2B.CH
Acq On : 24 Sep 2014 4:45 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

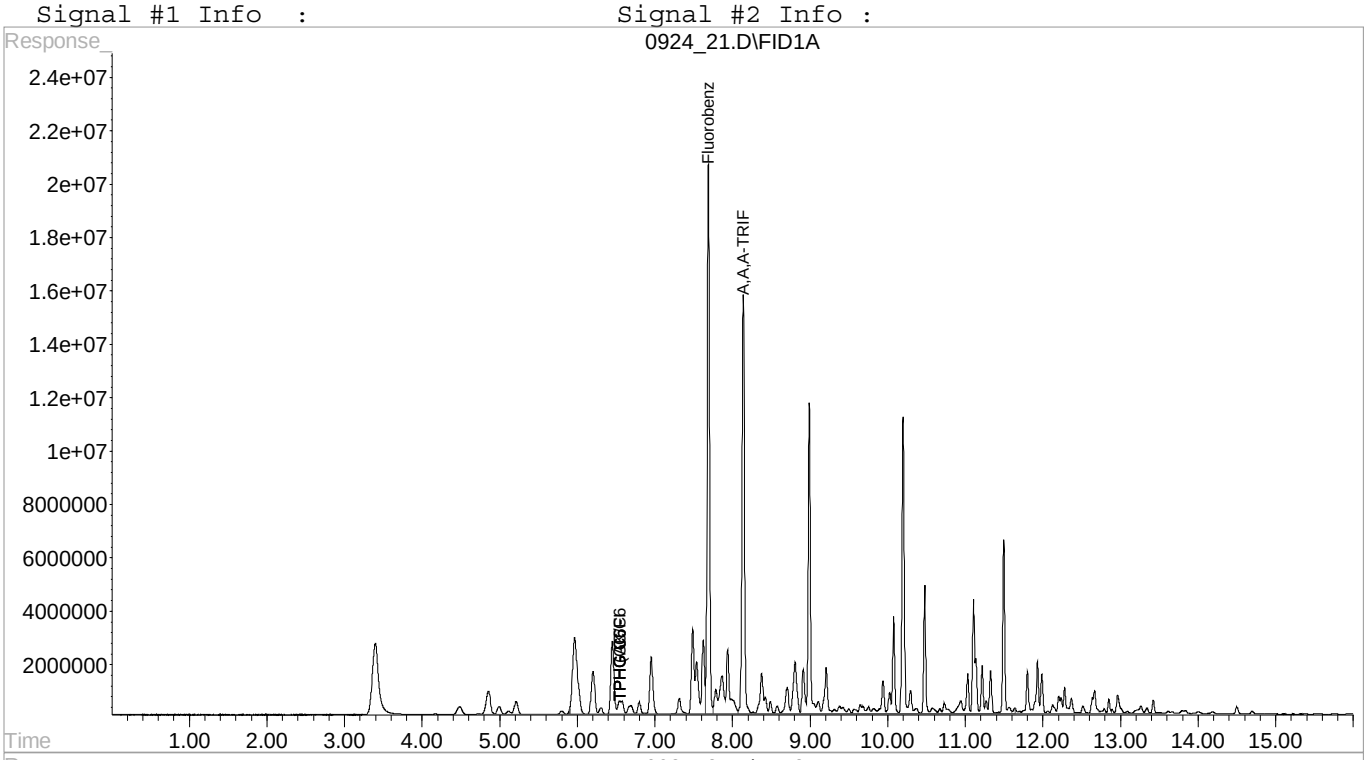
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	430492449	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1395541497	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	338491269	185.9731922 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 92.99%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	784750839	214.7457217 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 107.37%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	2555228369	1.2555331 ppm
3) H,M TPHG C6 - C12	6.53	2487708978	1.2581705 ppm
4) H,M TPHGAK C6 to C10	6.53	2022483807	1.2640879 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	2149089647	1.2648076 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	138673543	40.6358576 ppb
11) T,M benzene	7.53	188691063	14.4489572 ppb
12) T,M toluene	8.99	852838813	67.2152538 ppb
13) T,M ethylbenzene	10.07	243923072	21.7940384 ppb
14) T,M m&p-xylene	10.20	885407959	72.2067288 ppb
15) T,M o-xylene	10.47	307162655	27.7286124 ppb

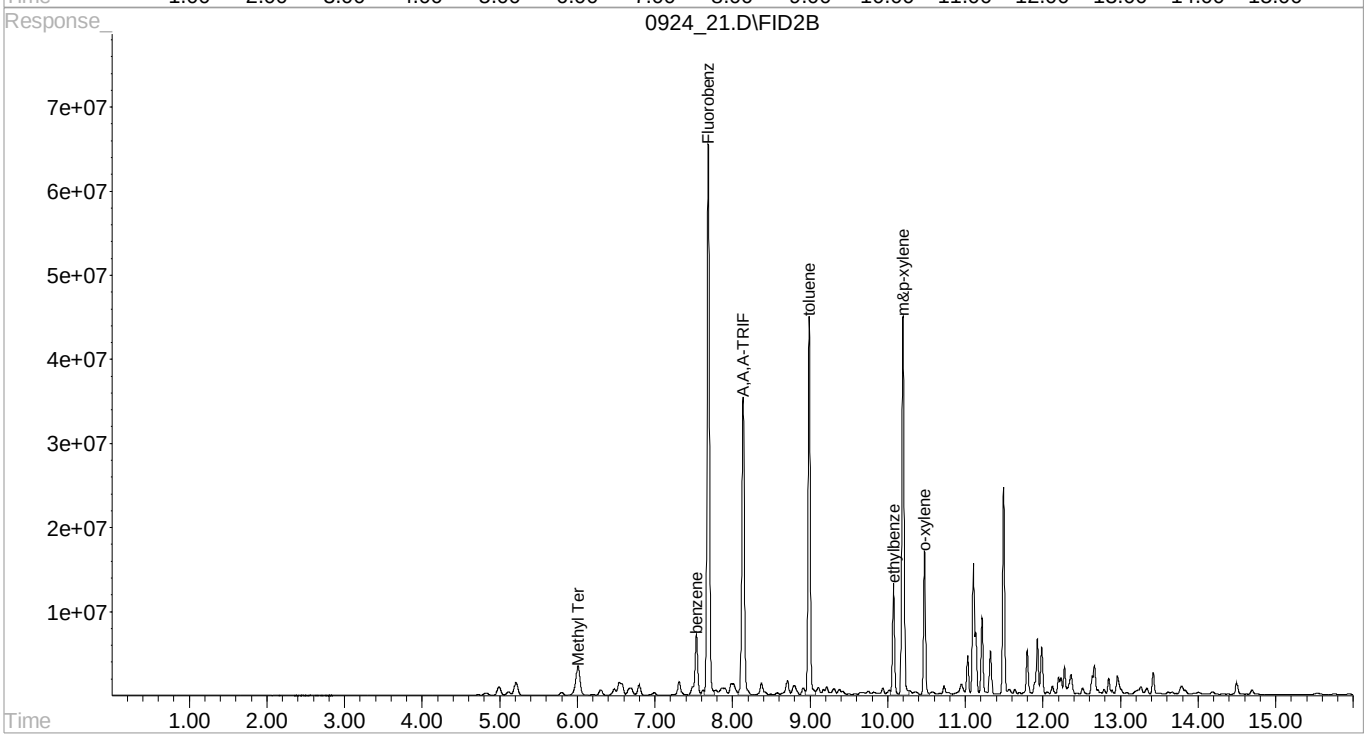
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 21.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 21.D\FID2B.CH
Acq On : 24 Sep 2014 4:45 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\092414\0924 21.D\FID1A.CH   Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 21.D\FID2B.CH
Acq On    : 24 Sep 2014   4:45 pm                    Operator: 621
Sample    : STD GRO 1.1 ppm 14I24980                 Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:29 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

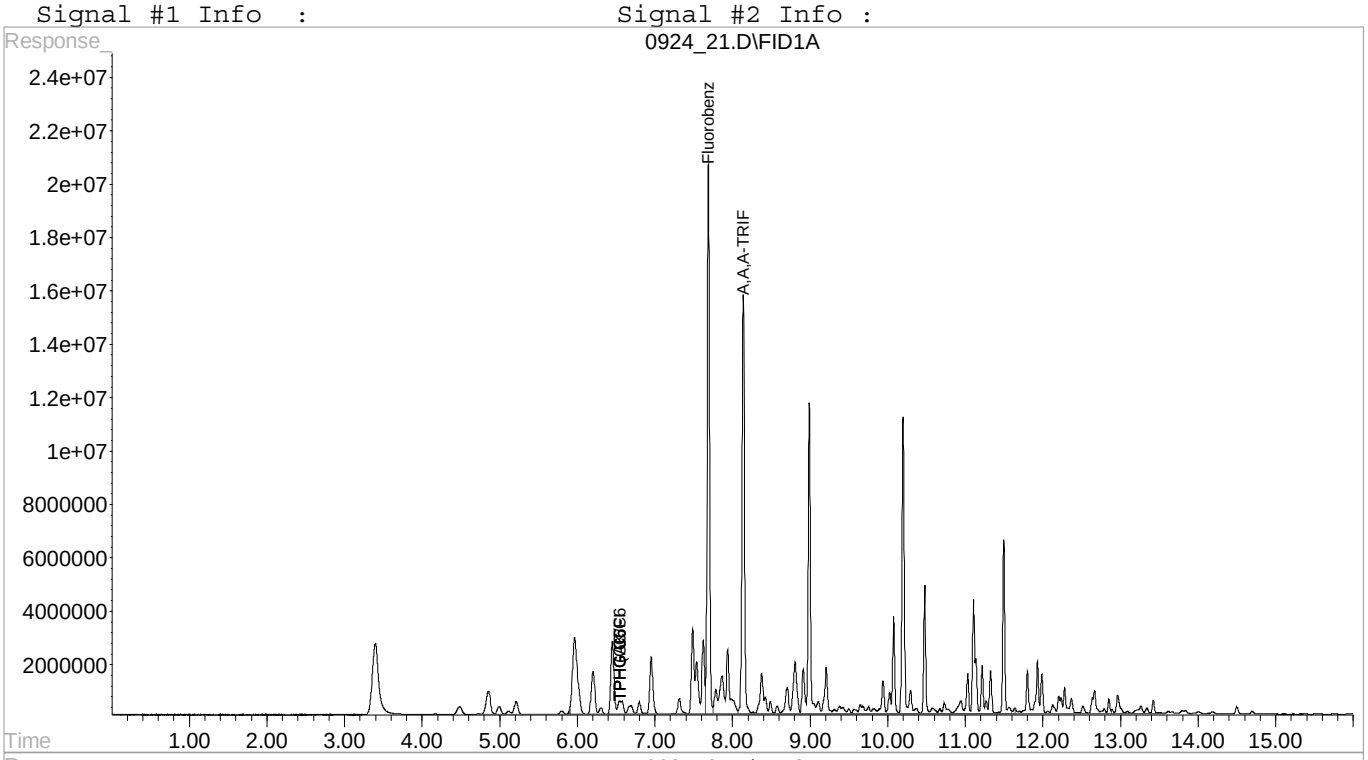
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	430492449	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	338491269	185.9731922	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	92.99%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	6.53	2555228369	1.2555331	ppm
3) H,M TPHG C6 - C12	6.53	2487708978	1.2581705	ppm
4) H,M TPHGAK C6 to C10	6.53	2022483807	1.2640879	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	2149089647	1.2648076	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d

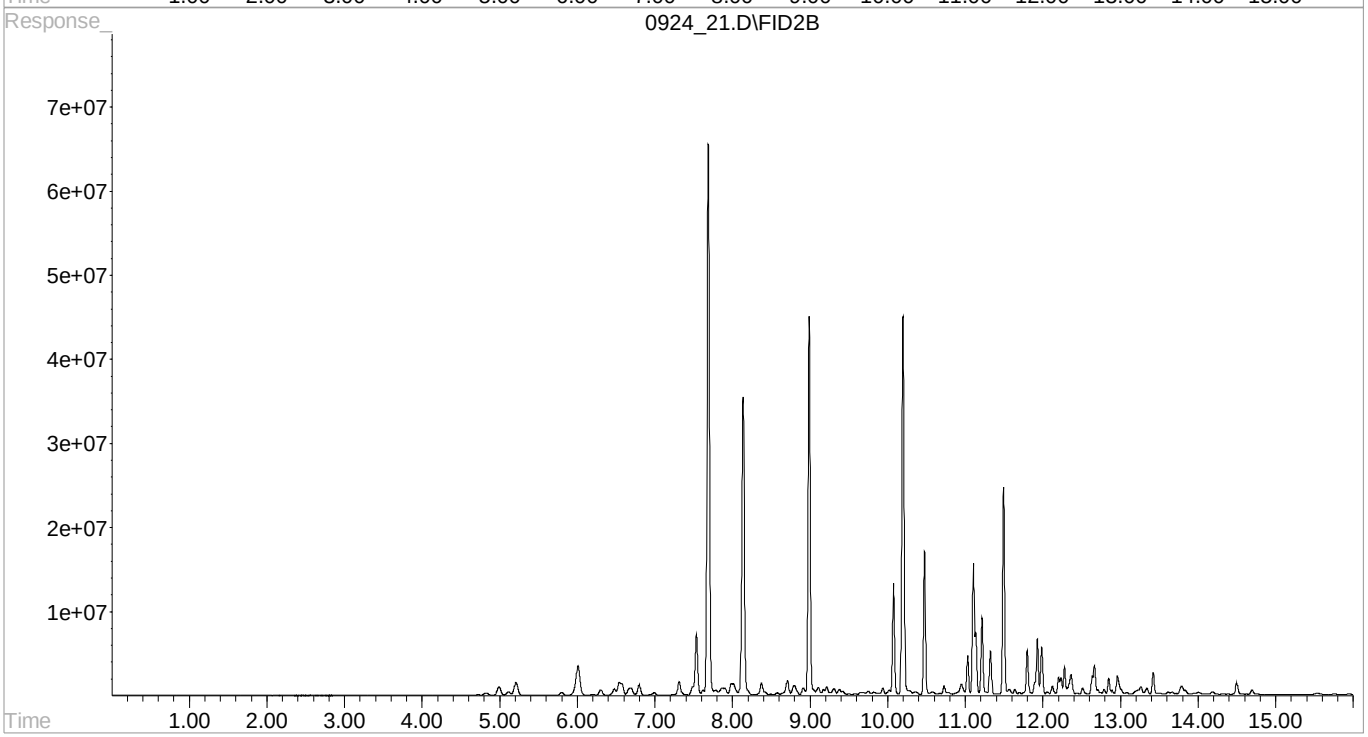
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 21.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 21.D\FID2B.CH
Acq On : 24 Sep 2014 4:45 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:29 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 22.D\FID2B.CH
Acq On : 24 Sep 2014 5:07 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

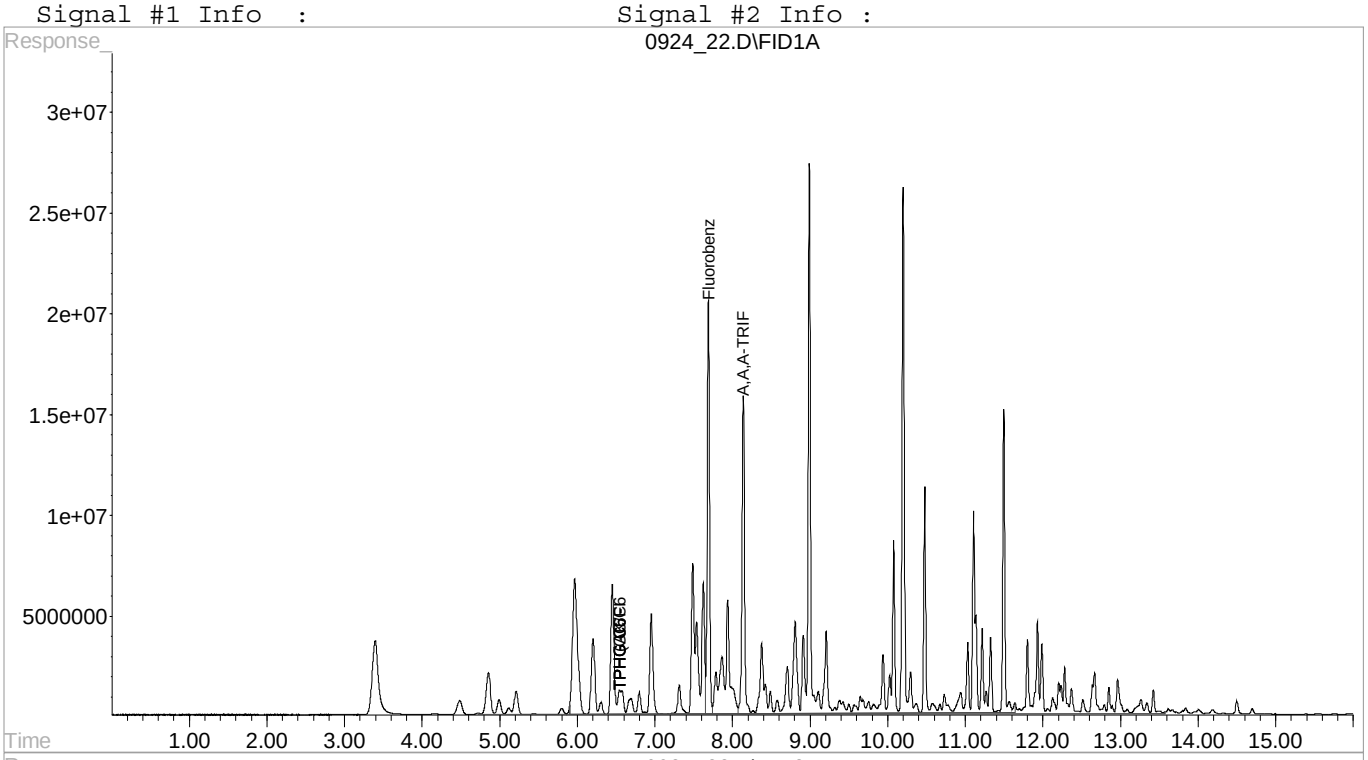
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	429358170	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1389925831	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	354472141	195.2678705 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 97.63%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	823443457	226.2442986 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 113.12%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	5964705001	2.9385510 ppm
3) H,M TPHG C6 - C12	6.53	5799832408	2.9410417 ppm
4) H,M TPHGAK C6 to C10	6.53	4692556608	2.9406785 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	4985691083	2.9419894 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	310238767	91.2773482 ppb
11) T,M benzene	7.53	439658830	33.8027554 ppb
12) T,M toluene	8.99	1908864121	151.0521914 ppb
13) T,M ethylbenzene	10.07	567238169	50.8863624 ppb
14) T,M m&p-xylene	10.20	1971321778	161.4146311 ppb
15) T,M o-xylene	10.47	707651767	64.1402204 ppb

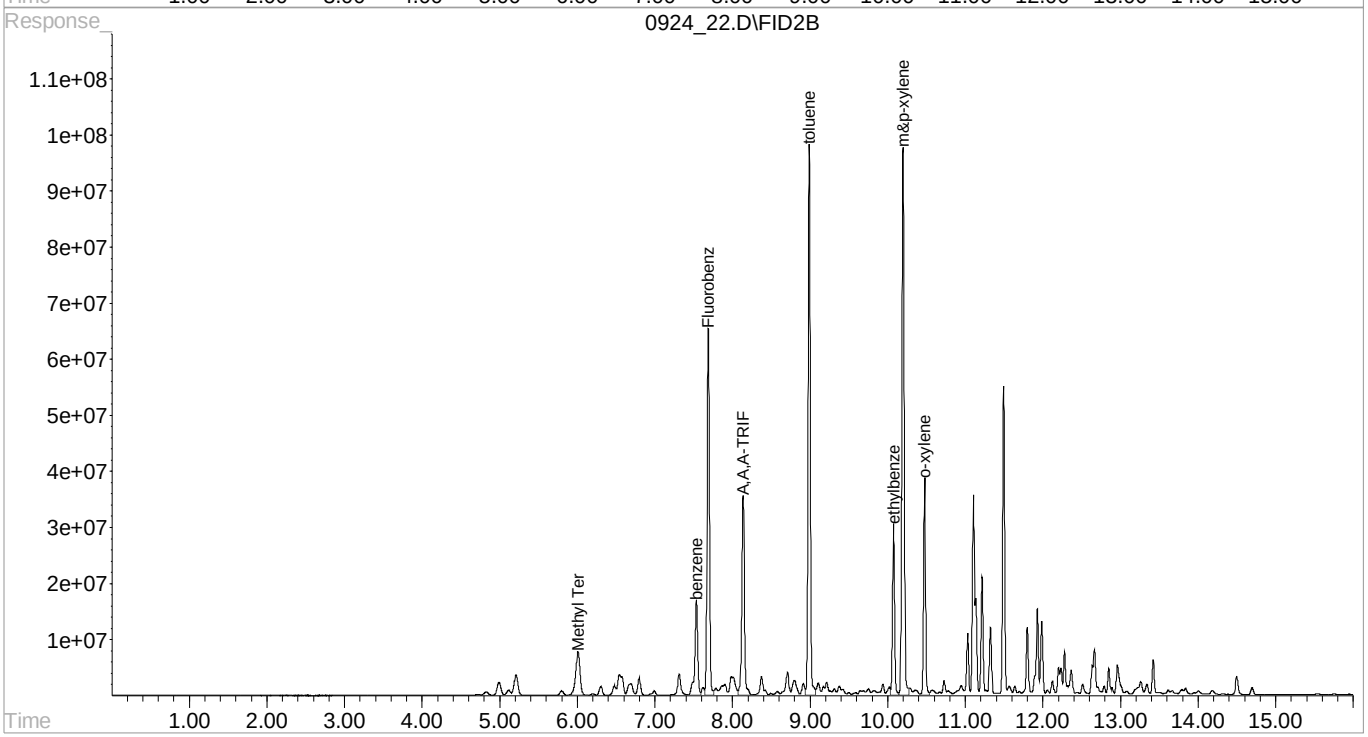
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 22.D\FID2B.CH
Acq On : 24 Sep 2014 5:07 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 22.D\FID2B.CH
Acq On : 24 Sep 2014 5:07 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:29 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

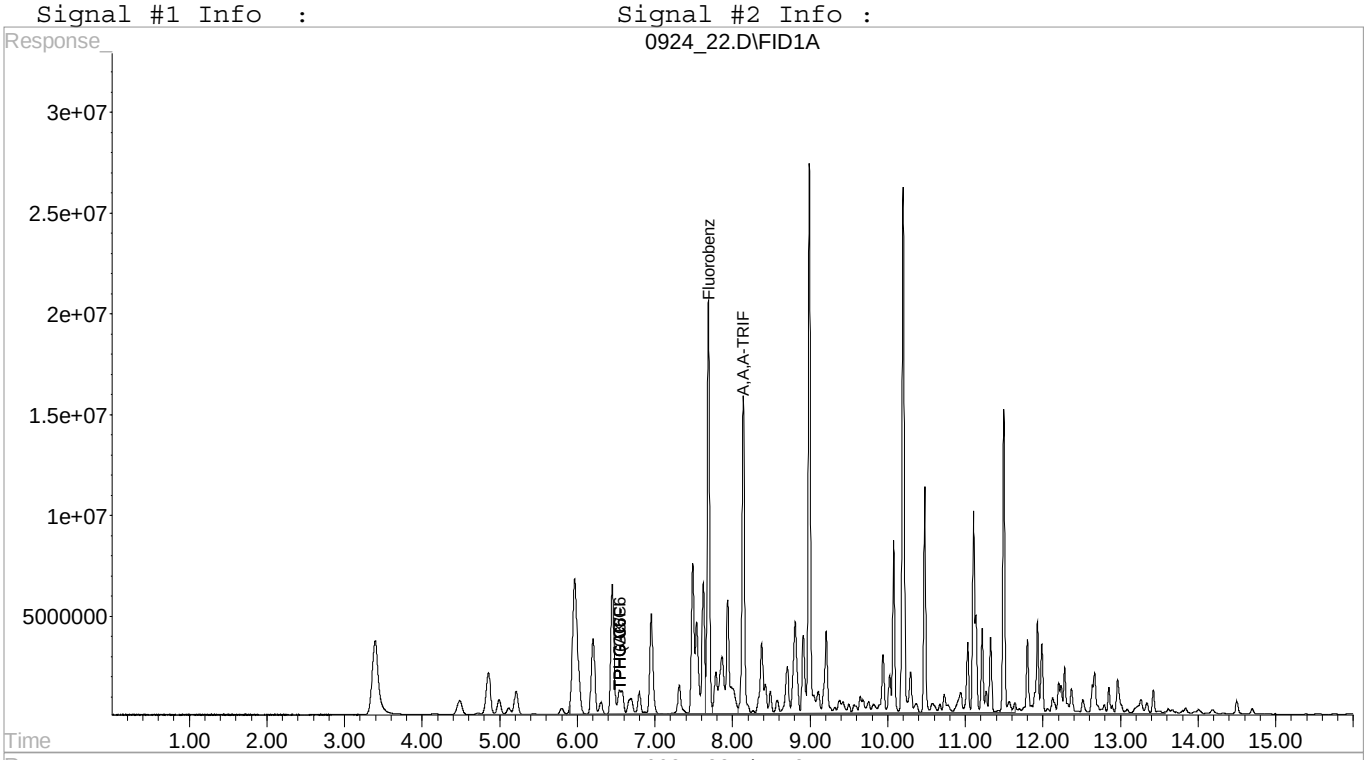
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	429358170	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	354472141	195.2678705	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	97.63%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	6.53	5964705001	2.9385510	ppm
3) H,M TPHG C6 - C12	6.53	5799832408	2.9410417	ppm
4) H,M TPHGAK C6 to C10	6.53	4692556608	2.9406785	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	4985691083	2.9419894	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d

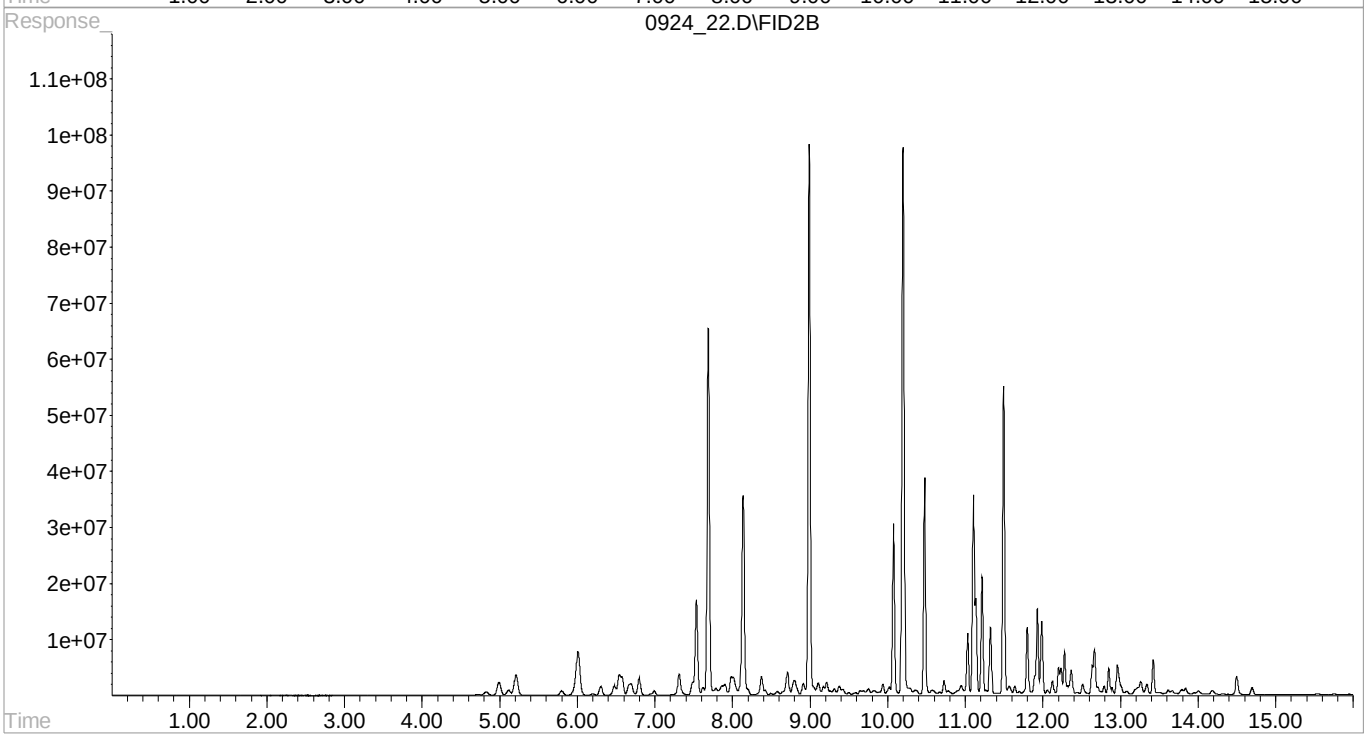
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 22.D\FID2B.CH
Acq On : 24 Sep 2014 5:07 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:29 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 23.D\FID1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 23.D\FID2B.CH
Acq On : 24 Sep 2014 5:30 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

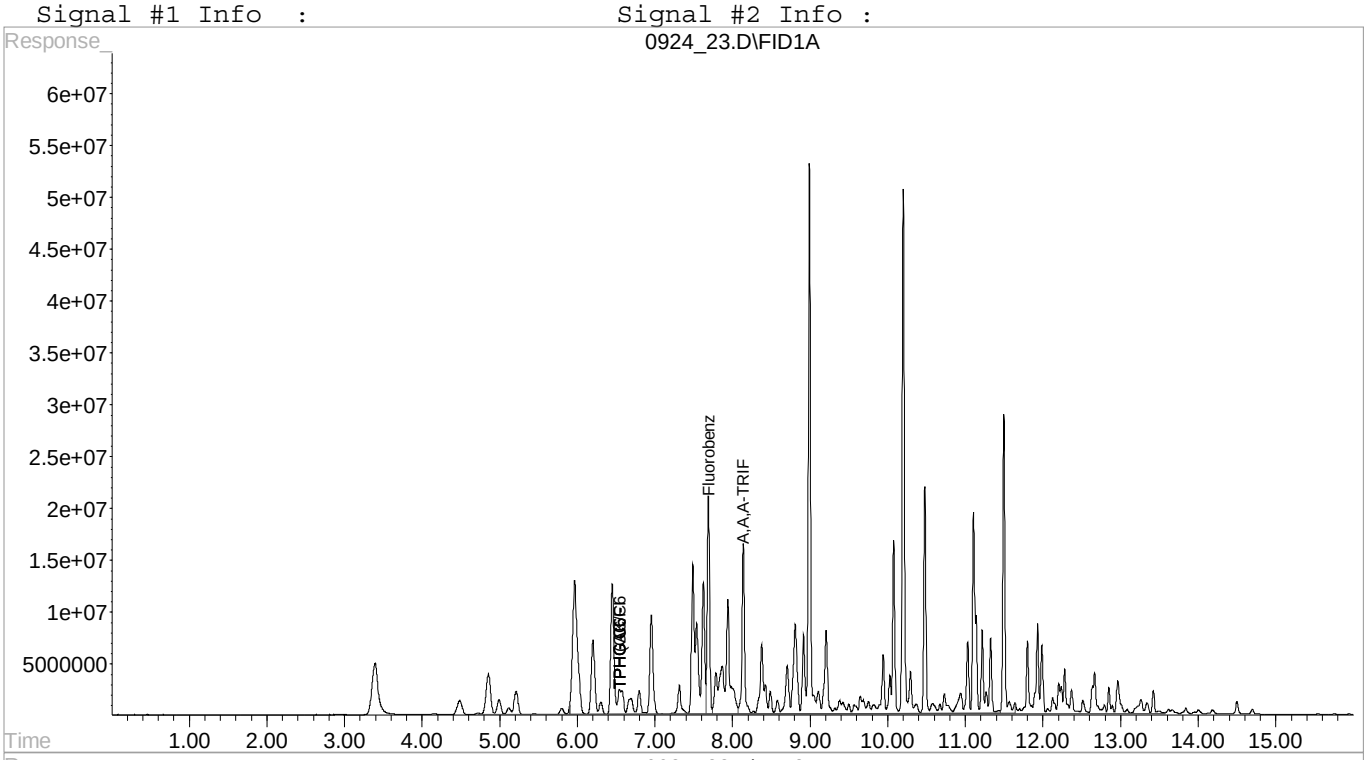
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	443516283	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1430734836	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	393786162	210.0000000 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 105.00%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	922692814	246.2824544 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 123.14%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	11532096334	5.5000000 ppm
3) H,M TPHG C6 - C12	6.53	11203837101	5.5000000 ppm
4) H,M TPHGAK C6 to C10	6.53	9065974815	5.5000000 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	9628015542	5.5000000 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	567726653	162.2701756 ppb
11) T,M benzene	7.53	845019049	63.1153909 ppb
12) T,M toluene	8.99	3436722891	264.1976833 ppb
13) T,M ethylbenzene	10.07	1079578483	94.0854908 ppb
14) T,M m&p-xylene	10.20	3523205680	280.2566005 ppb
15) T,M o-xylene	10.47	1332023021	117.2883988 ppb

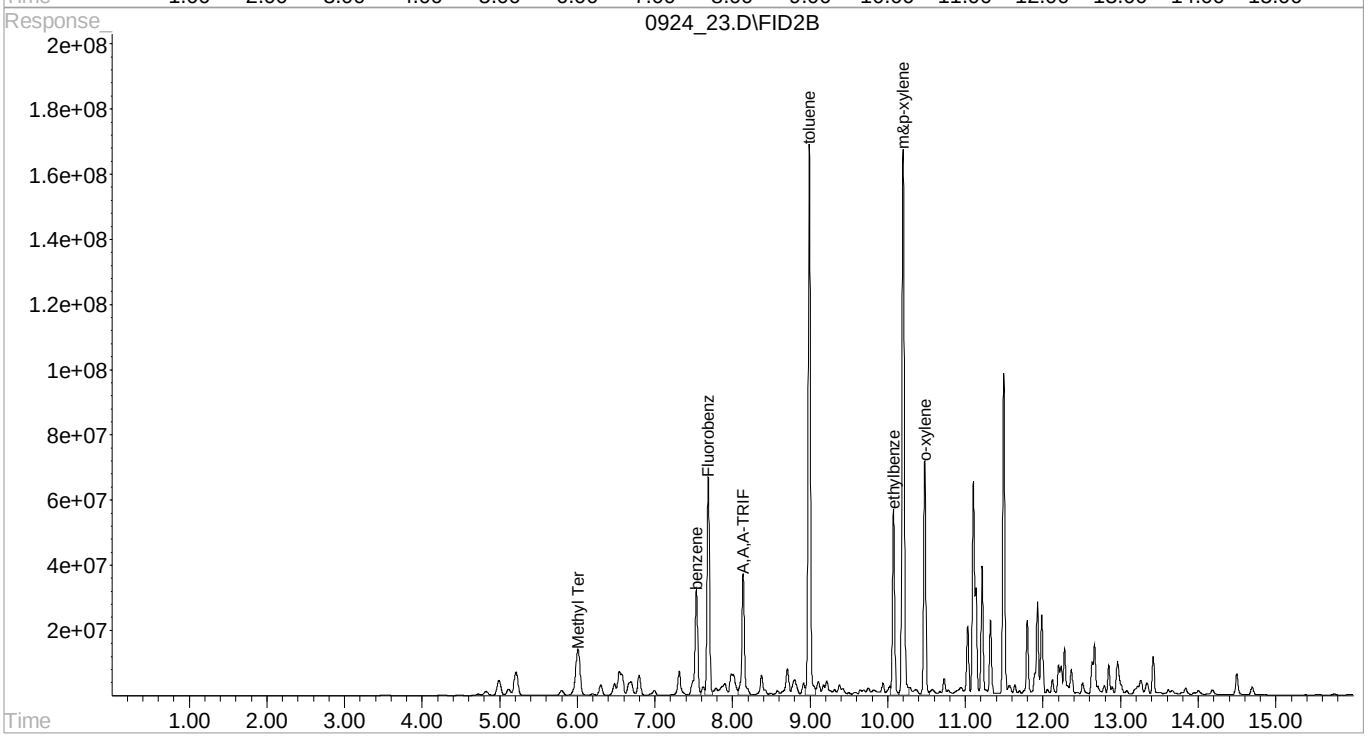
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 23.D\FID1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 23.D\FID2B.CH
Acq On : 24 Sep 2014 5:30 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 23.D\FID1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 23.D\FID2B.CH
Acq On : 24 Sep 2014 5:30 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:29 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

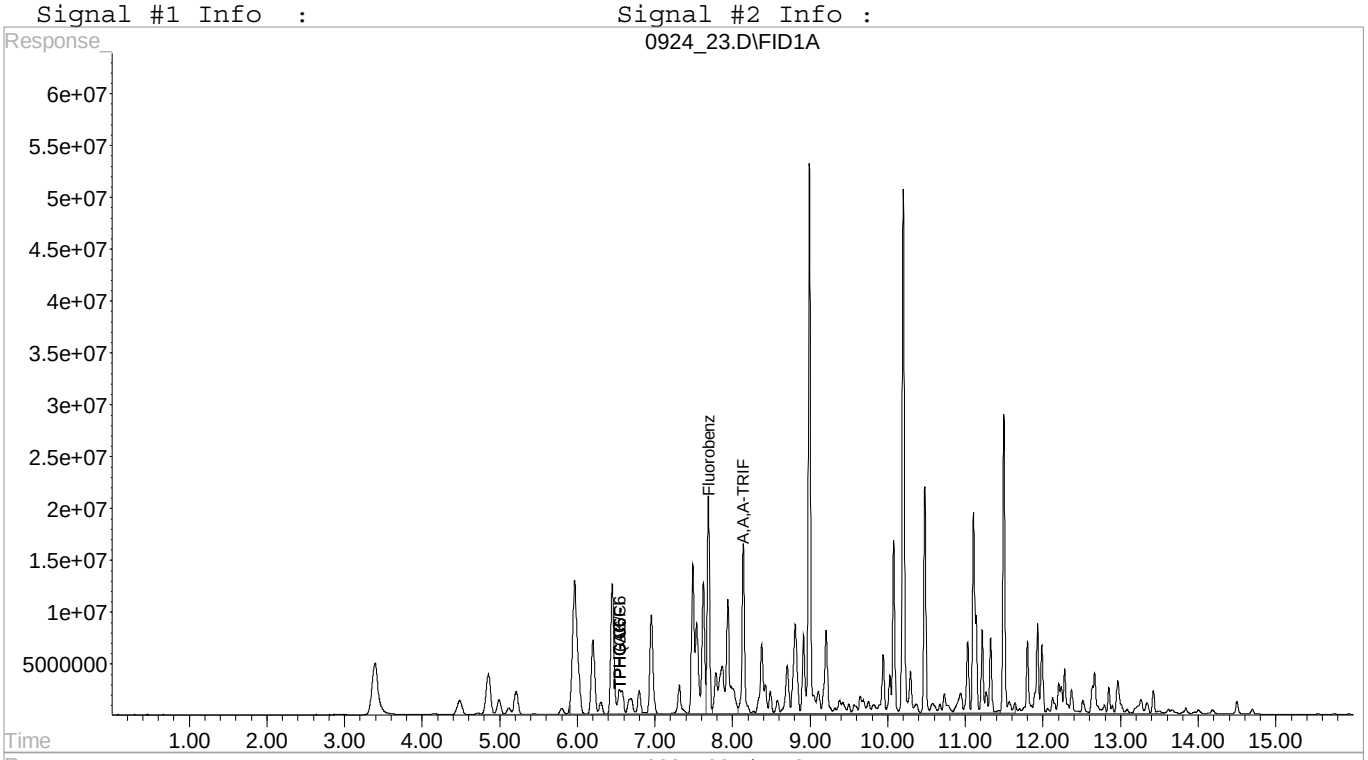
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	443516283	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	393786162	210.0000000	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	105.00%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	6.53	11532096334	5.5000000	ppm
3) H,M TPHG C6 - C12	6.53	11203837101	5.5000000	ppm
4) H,M TPHGAK C6 to C10	6.53	9065974815	5.5000000	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	9628015542	5.5000000	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d

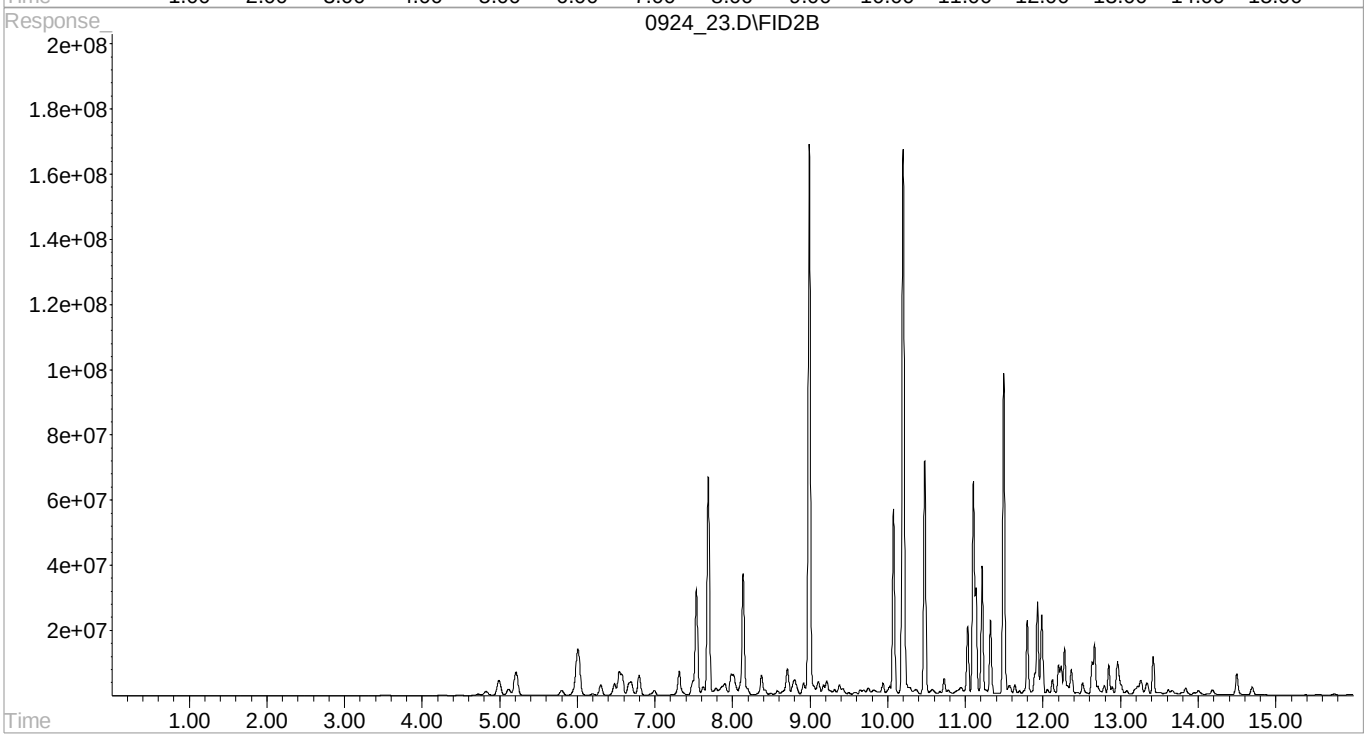
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 23.D\FID1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 23.D\FID2B.CH
Acq On : 24 Sep 2014 5:30 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:29 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 24.D\FID1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 24.D\FID2B.CH
Acq On : 24 Sep 2014 5:52 pm Operator: 621
Sample : STD GRO 11 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

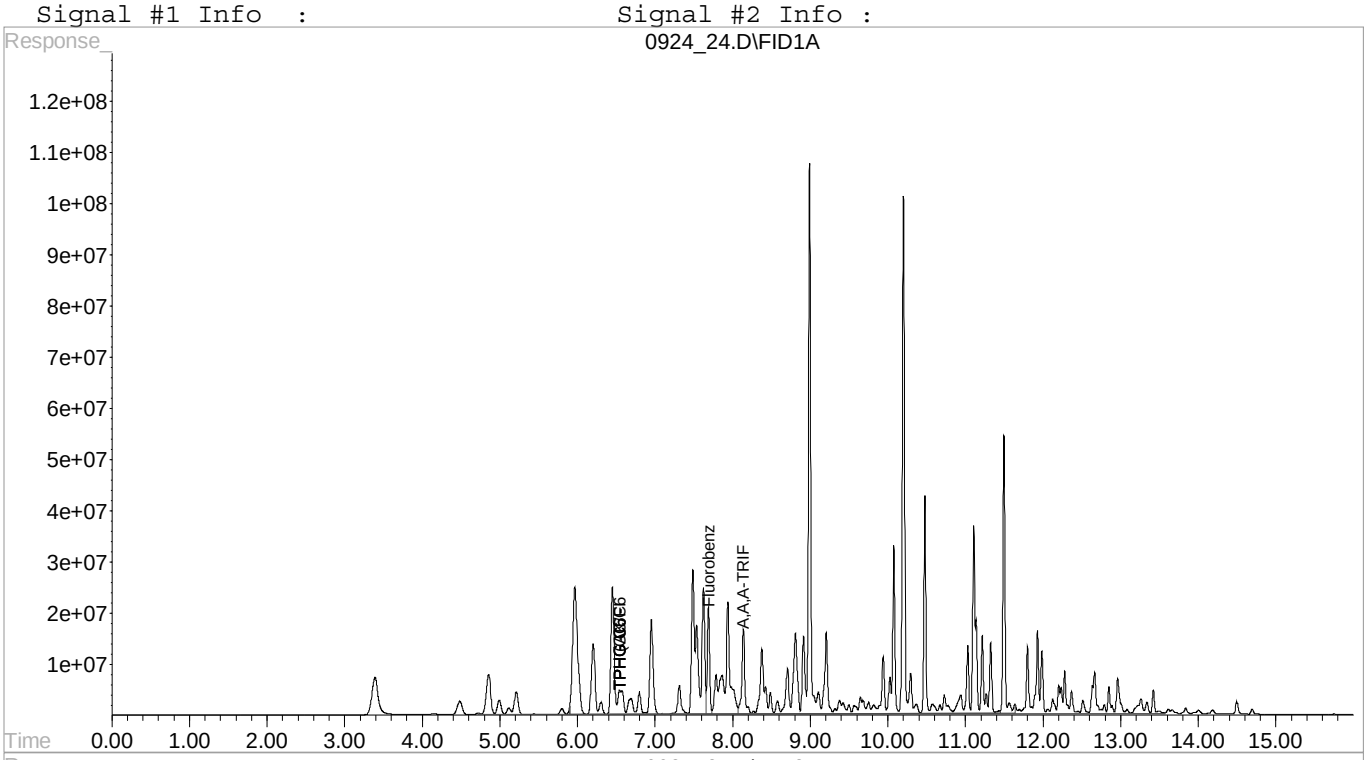
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	445137522	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1430187631	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	445969014	236.9621025 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 118.48%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	1055727455	281.8994863 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 140.95%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	22506631931	10.6949880 ppm
3) H,M TPHG C6 - C12	6.53	21854381735	10.6893130 ppm
4) H,M TPHGAK C6 to C10	6.53	17695495910	10.6961204 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	18750463782	10.6721836 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	1021626576	292.1176101 ppb
11) T,M benzene	7.53	1613803574	120.5828609 ppb
12) T,M toluene	8.99	5900403477	453.7663991 ppb
13) T,M ethylbenzene	10.08	2139855990	186.5602501 ppb
14) T,M m&p-xylene	10.20	6049668191	481.4104815 ppb
15) T,M o-xylene	10.48	2425658970	213.6678613 ppb

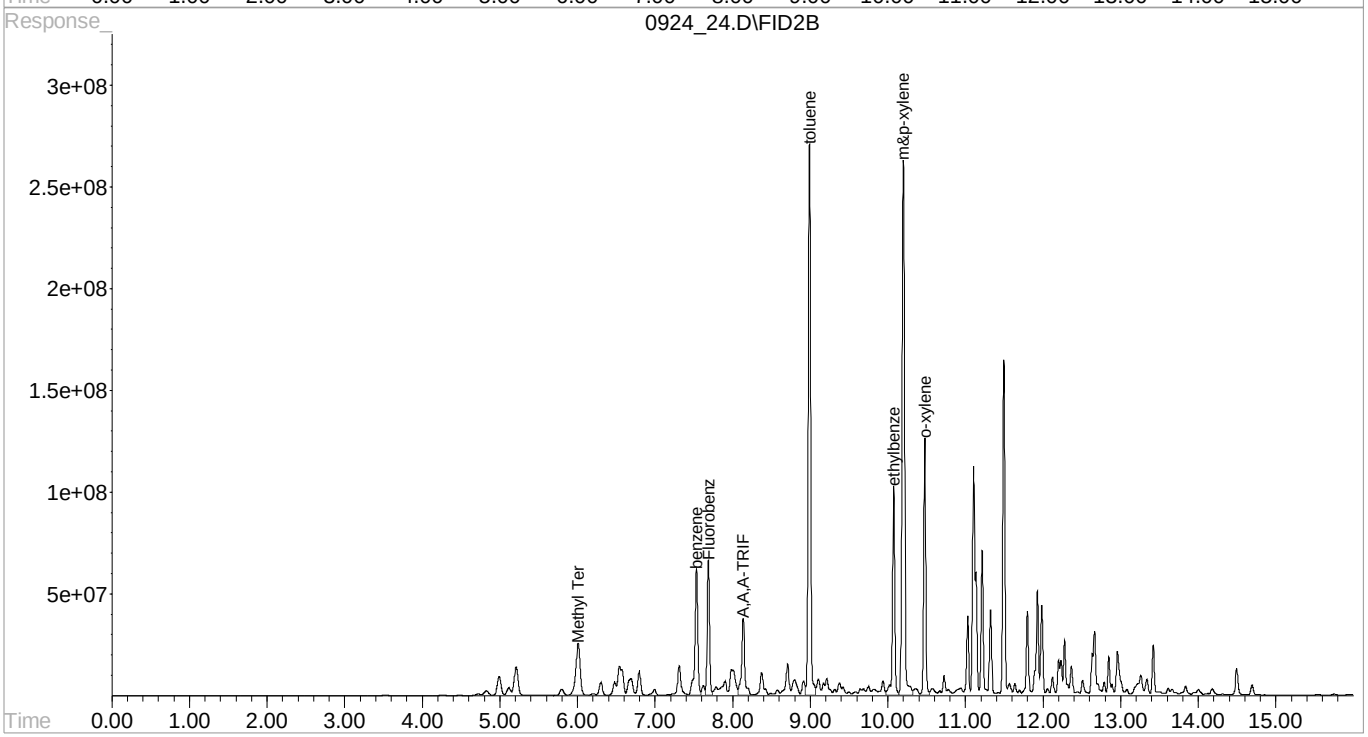
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 24.D\FID1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 24.D\FID2B.CH
Acq On : 24 Sep 2014 5:52 pm Operator: 621
Sample : STD GRO 11 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:28 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\092414\0924 24.D\FID1A.CH   Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 24.D\FID2B.CH
Acq On    : 24 Sep 2014   5:52 pm                    Operator: 621
Sample    : STD GRO 11 ppm 14I24980                  Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:30 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:27:38 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

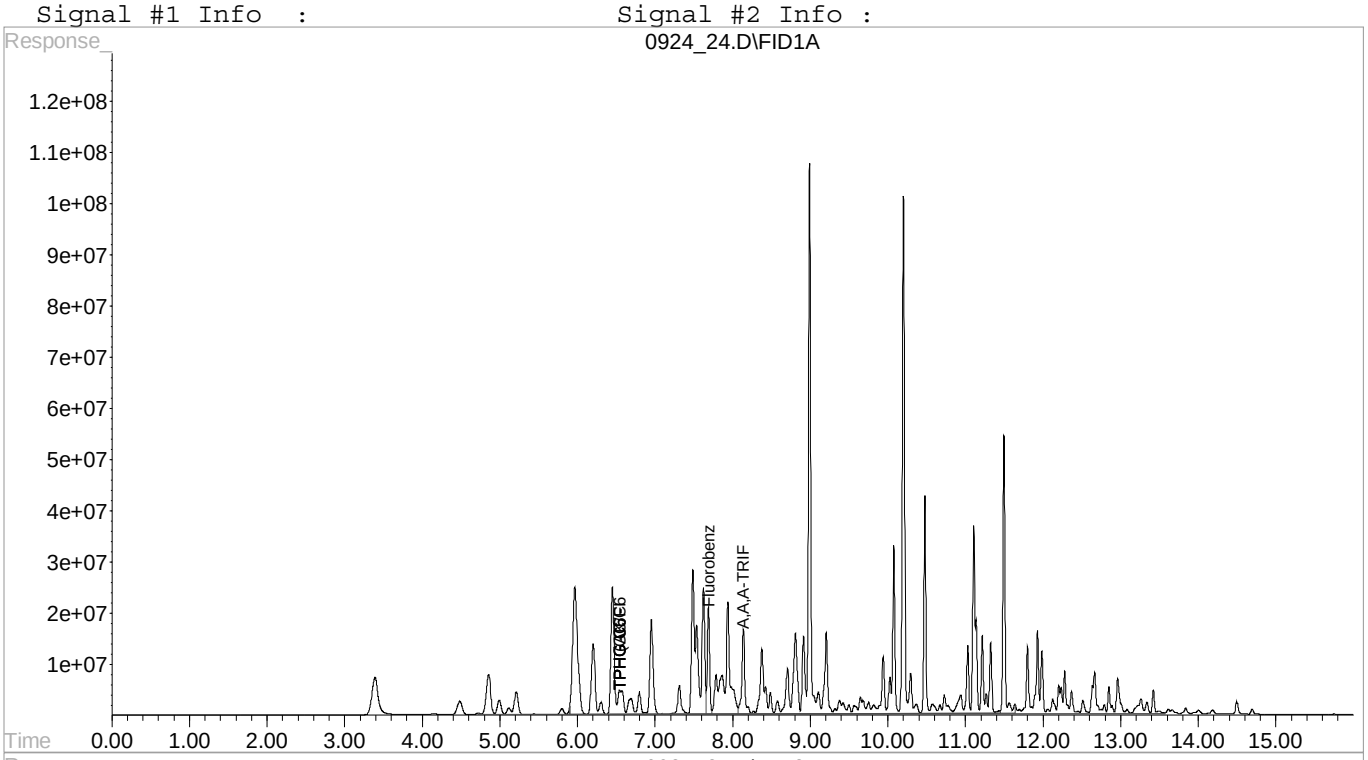
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	445137522	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	445969014	236.9621025	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery	= 118.48%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	6.53	22506631931	10.6949880	ppm
3) H,M TPHG C6 - C12	6.53	21854381735	10.6893130	ppm
4) H,M TPHGAK C6 to C10	6.53	17695495910	10.6961204	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	18750463782	10.6721836	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d

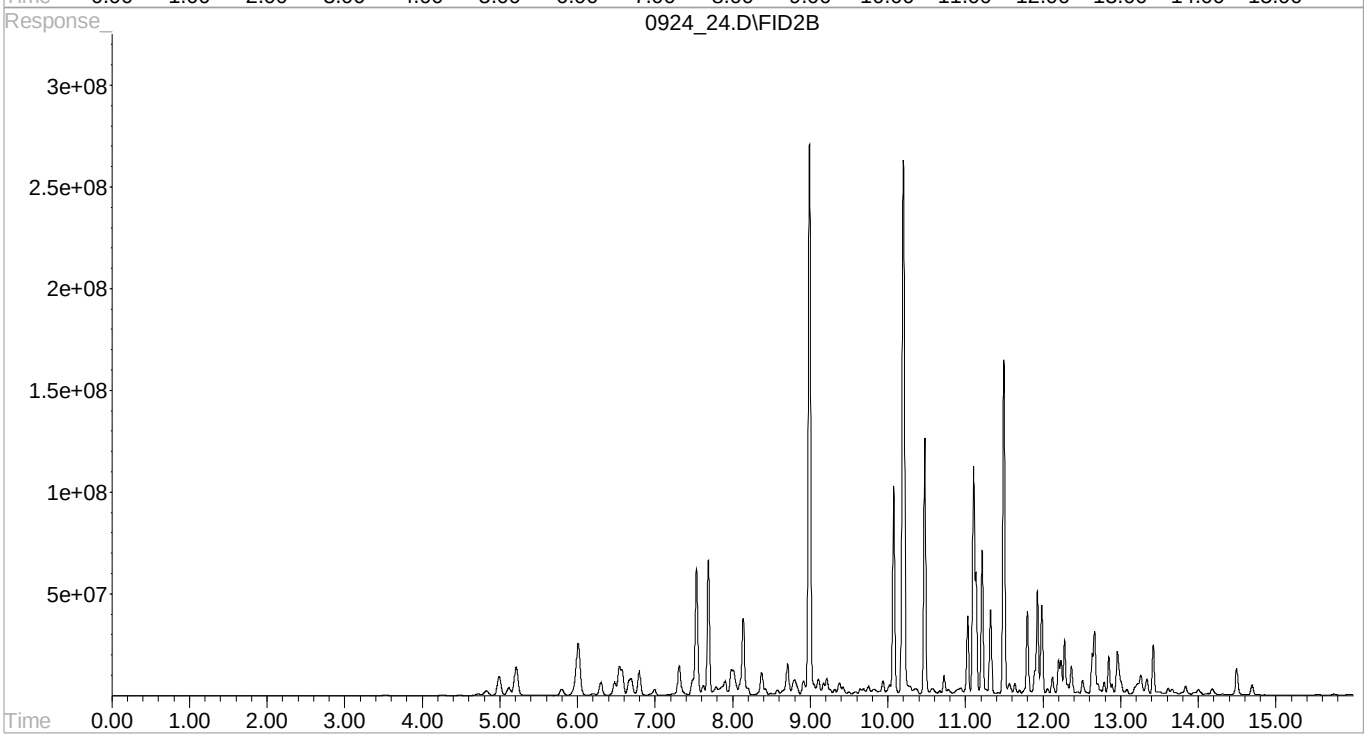
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 24.D\FID1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 24.D\FID2B.CH
Acq On : 24 Sep 2014 5:52 pm Operator: 621
Sample : STD GRO 11 ppm 14I24980 Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:30 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:27:38 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID2B.CH
Acq On : 24 Sep 2014 2:09 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:32 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

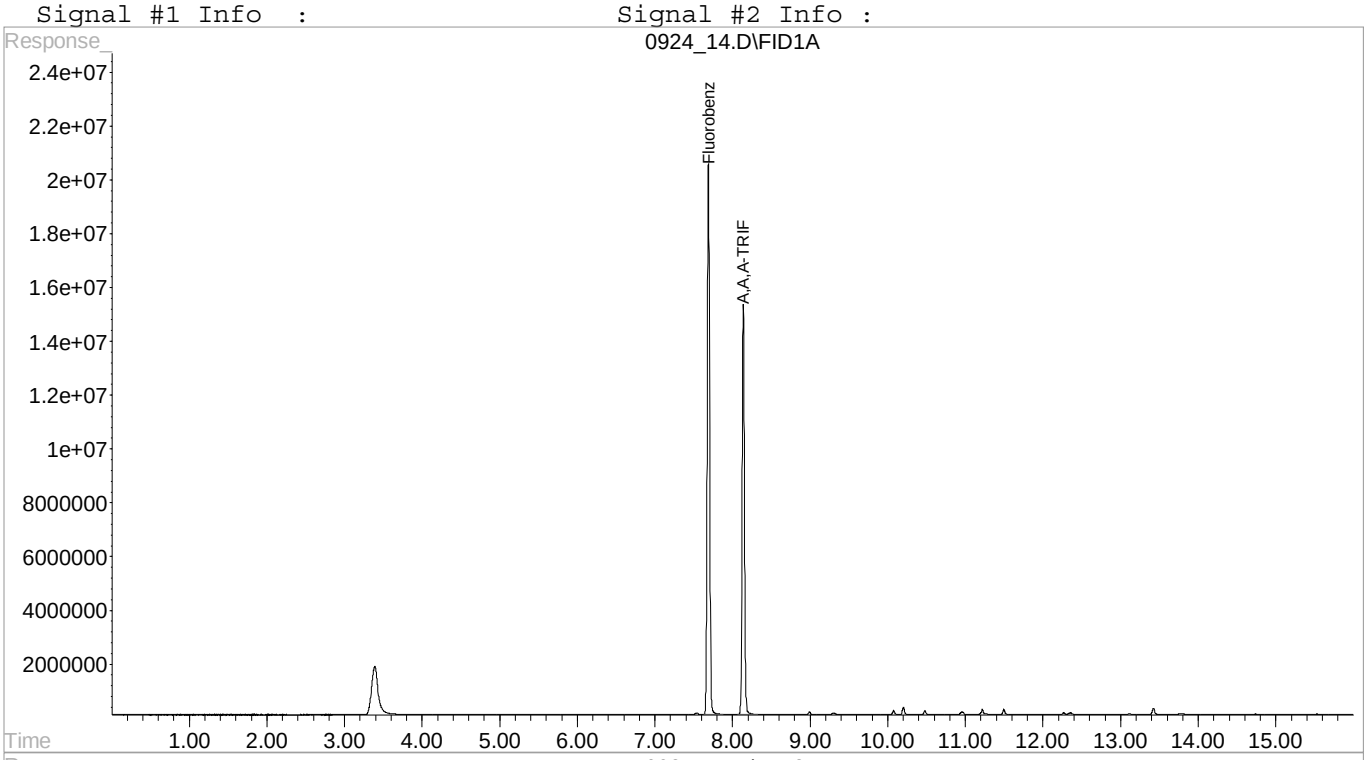
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424713648	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1392016891	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318983753	187.2562989	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.63%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	736715822	202.1114783	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.06%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	59066439	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	56674780	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	34692796	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	38743017	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	1652144	0.4853577	ppb
11) T,M benzene	7.54	5024275	0.3857064	ppb
12) T,M toluene	8.99	7002815	0.5533142	ppb
13) T,M ethylbenzene	10.07	9427106	0.8444258	ppb
14) T,M m&p-xylene	10.20	22200665	1.8150913	ppb
15) T,M o-xylene	10.48	8881534	0.8037962	ppb

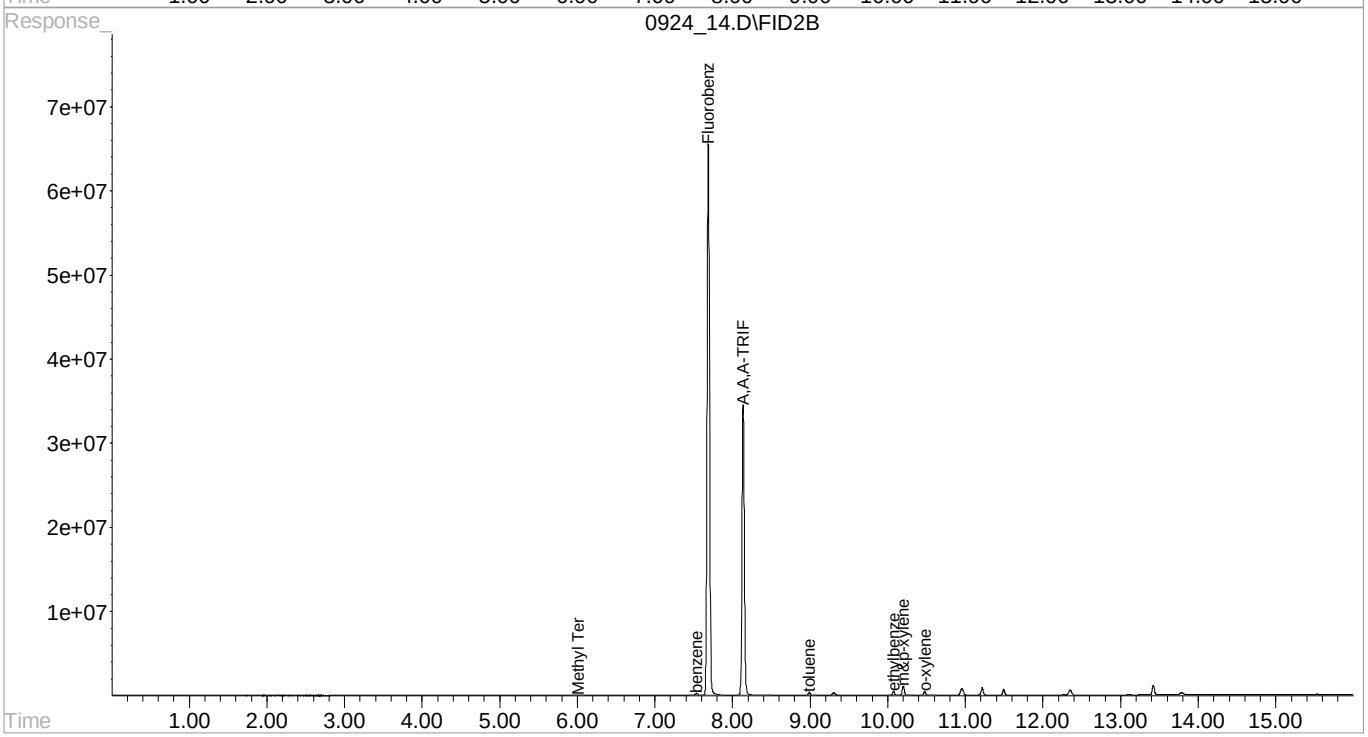
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID2B.CH
Acq On : 24 Sep 2014 2:09 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:32 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID2B.CH
Acq On : 24 Sep 2014 2:09 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:32 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

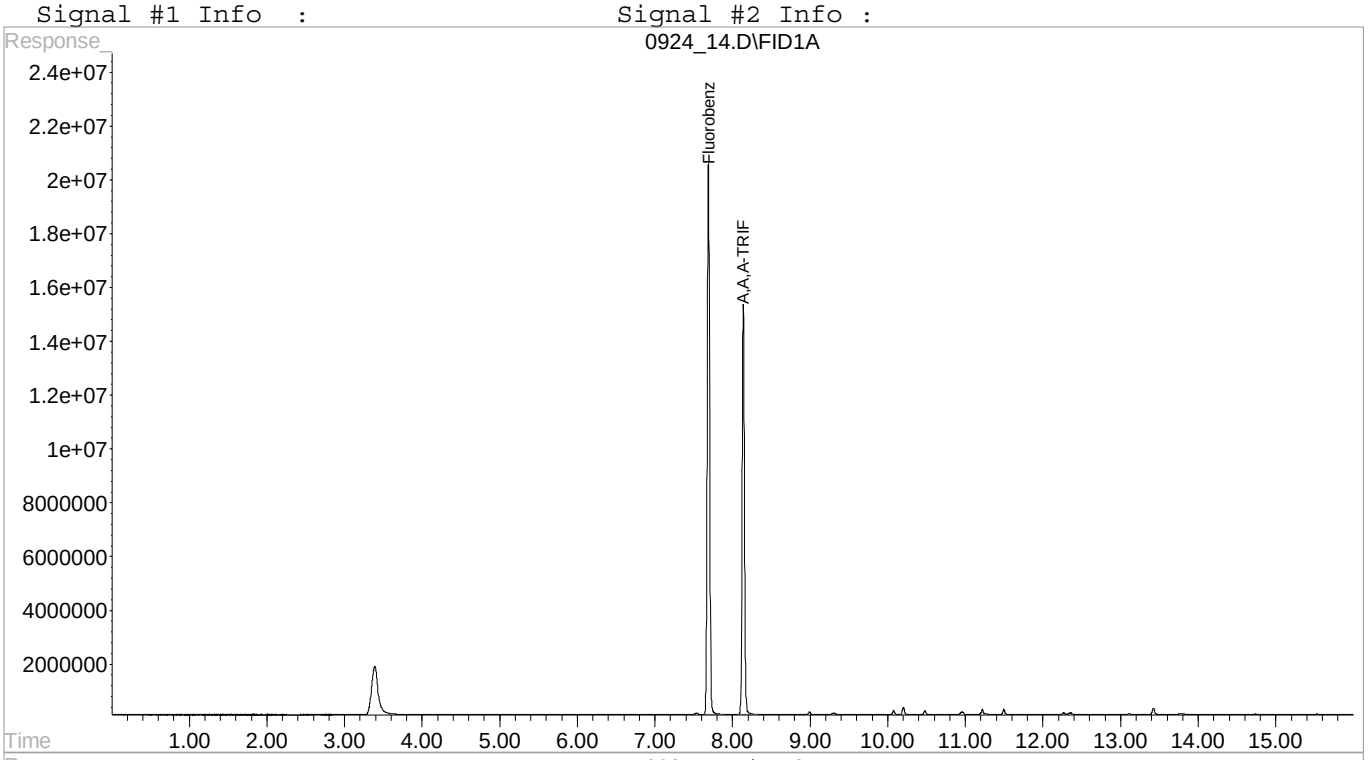
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424713648	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1392016891	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318983753	187.2562989	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.63%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	736715822	202.1114783	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.06%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	59066439	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	56674780	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	34692796	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	38743017	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	1652144	0.4853577	ppb
11) T,M benzene	7.54	5024275	0.3857064	ppb
12) T,M toluene	8.99	7002815	0.5533142	ppb
13) T,M ethylbenzene	10.07	9427106	0.8444258	ppb
14) T,M m&p-xylene	10.20	22200665	1.8150913	ppb
15) T,M o-xylene	10.48	8881534	0.8037962	ppb

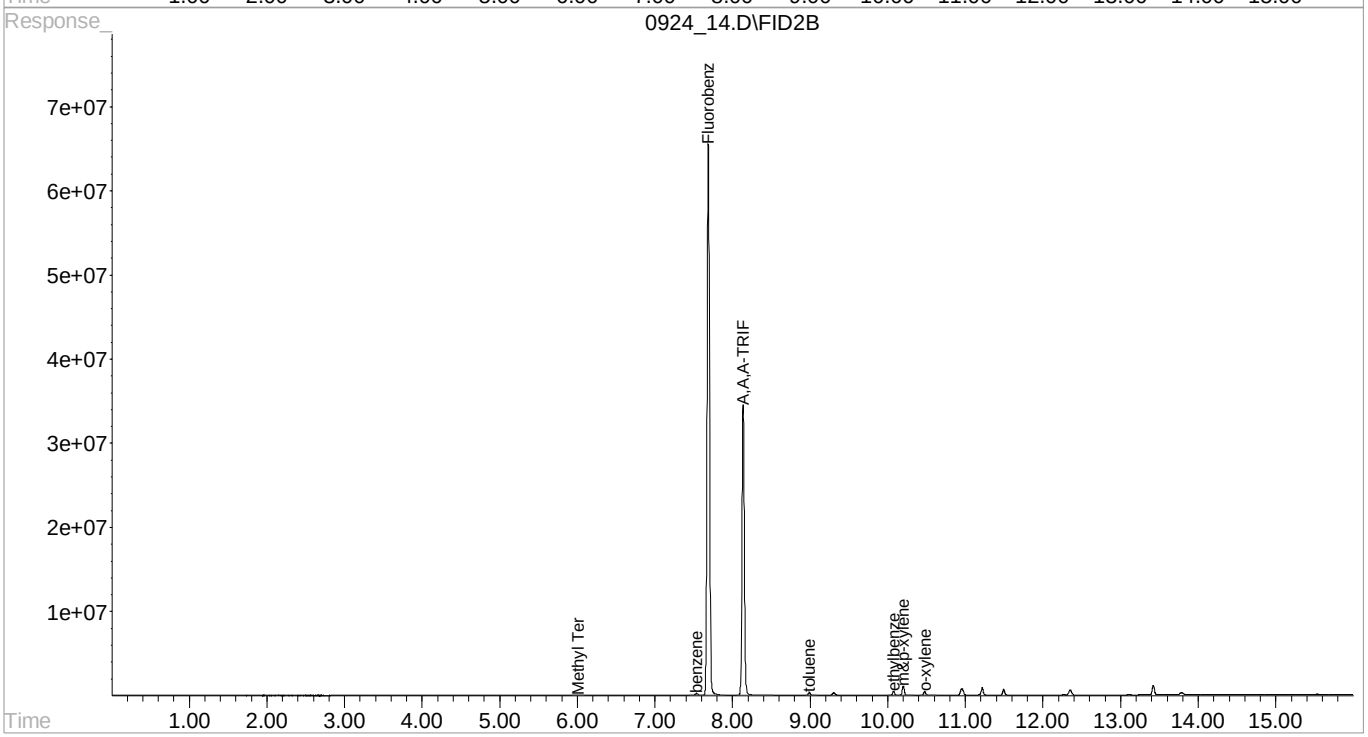
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID2B.CH
Acq On : 24 Sep 2014 2:09 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:32 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID2B.CH
Acq On : 24 Sep 2014 2:09 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:32 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

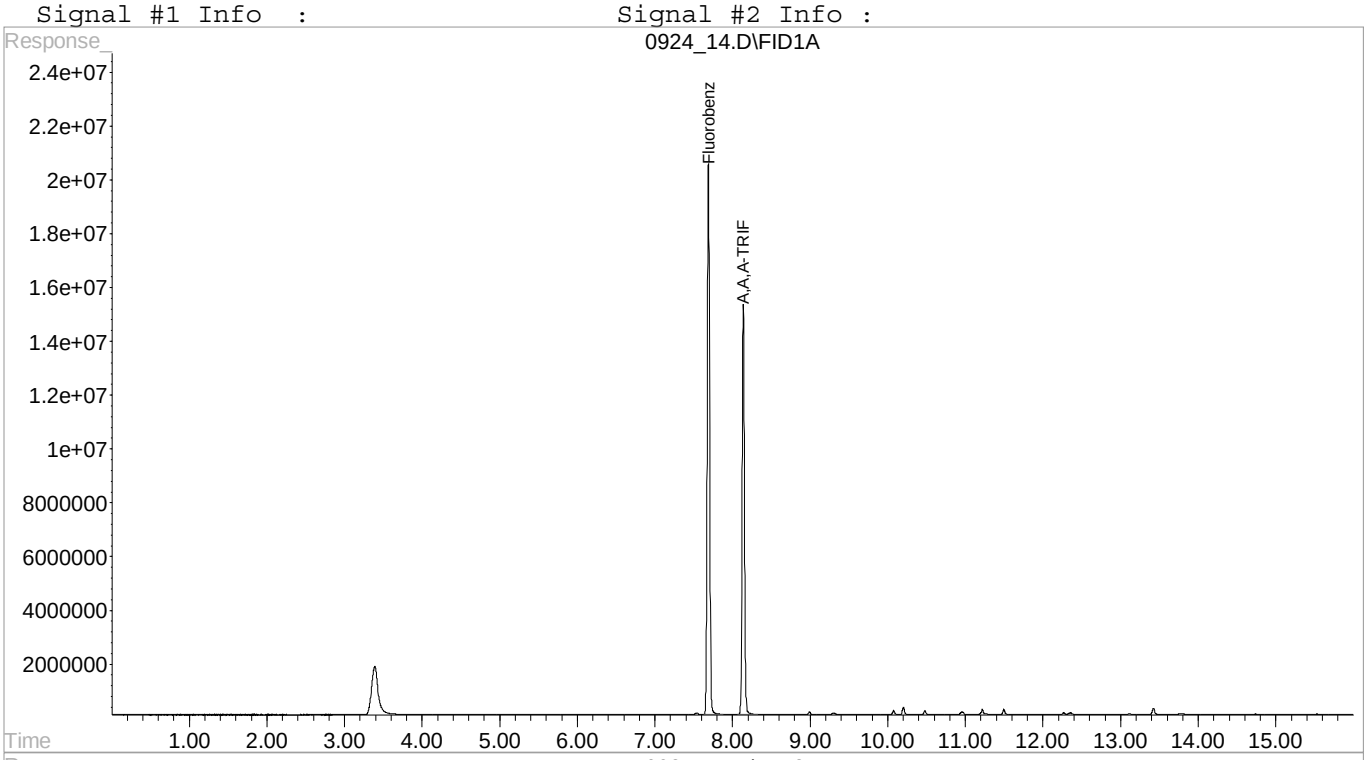
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424713648	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1392016891	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318983753	187.2562989	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.63%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	736715822	202.1114783	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.06%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	59066439	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	56674780	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	34692796	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	38743017	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.01	1652144	0.4853577	ppb
11) T,M benzene	7.54	5024275	0.3857064	ppb
12) T,M toluene	8.99	7002815	0.5533142	ppb
13) T,M ethylbenzene	10.07	9427106	0.8444258	ppb
14) T,M m&p-xylene	10.20	22200665	1.8150913	ppb
15) T,M o-xylene	10.48	8881534	0.8037962	ppb

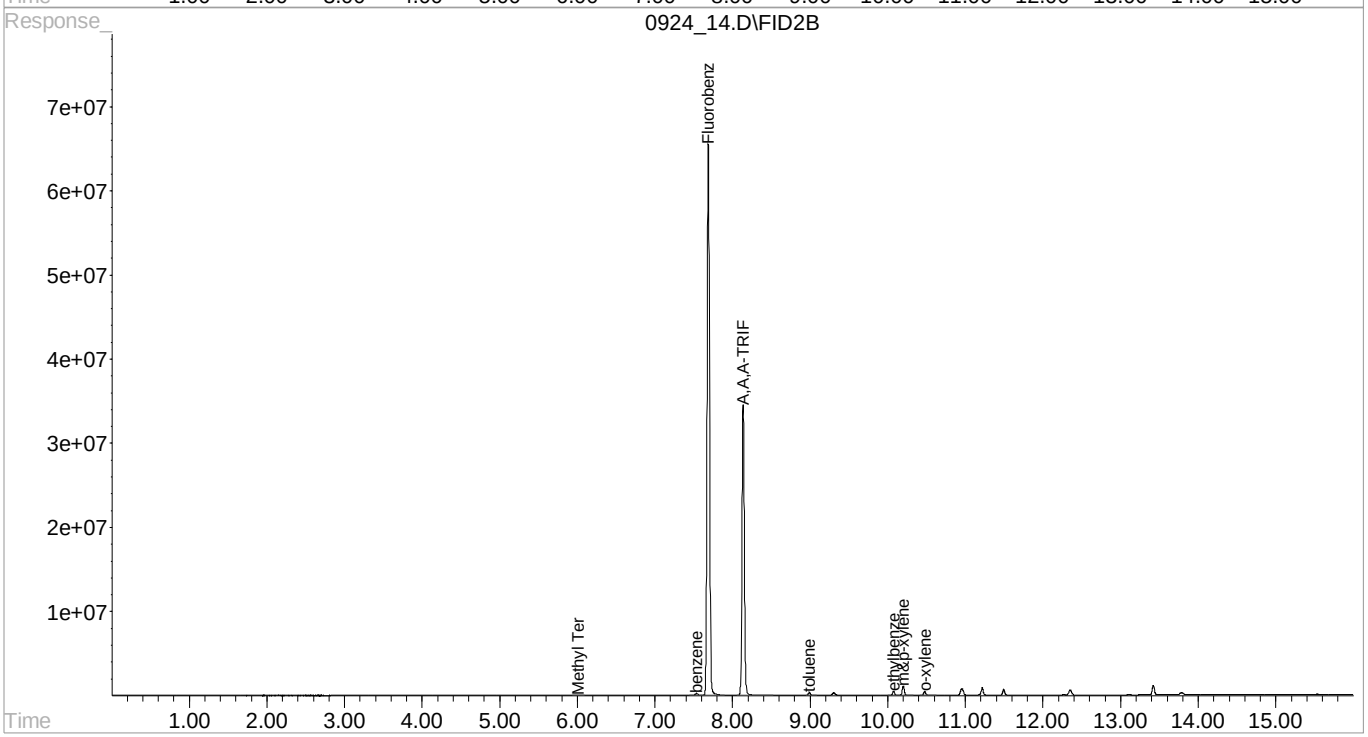
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 14.D\FID2B.CH
Acq On : 24 Sep 2014 2:09 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:32 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID2B.CH
Acq On : 24 Sep 2014 2:53 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

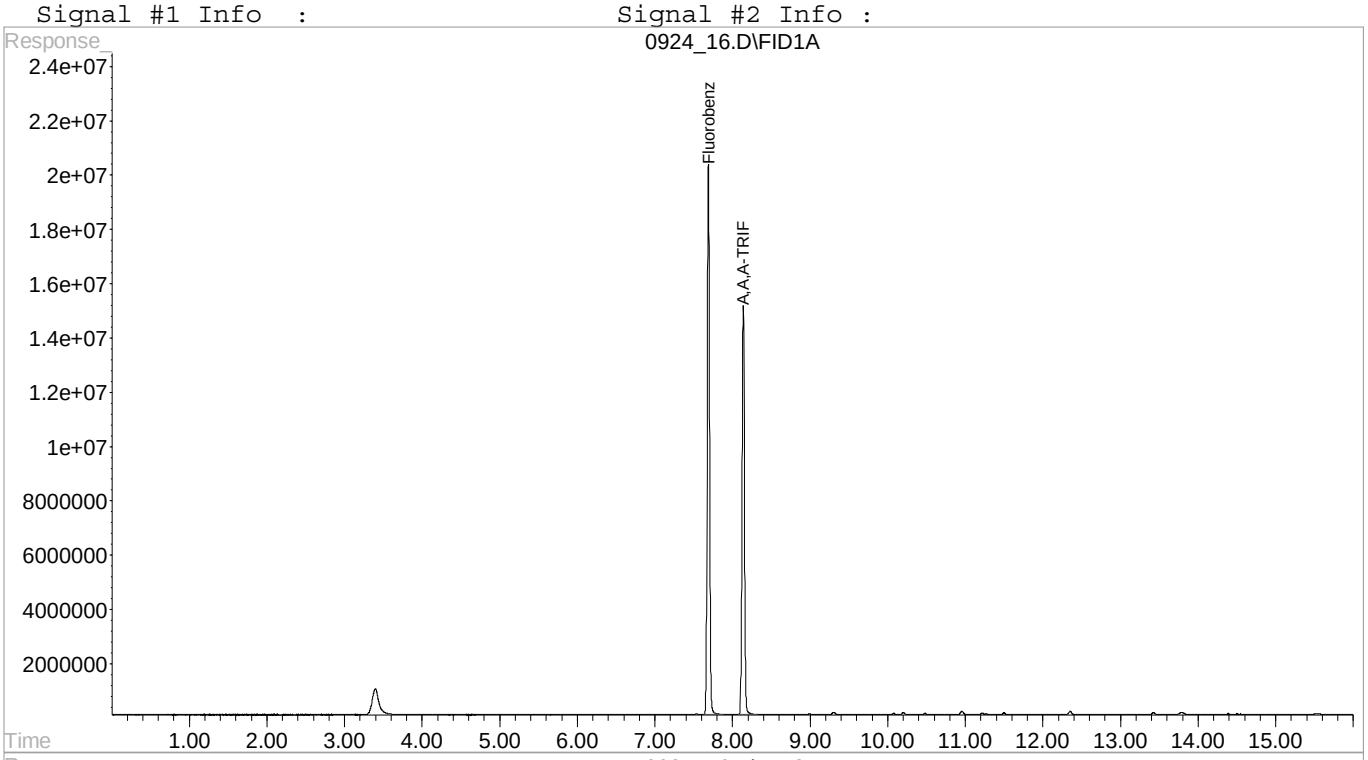
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	420489894	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1376804954	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	315575668	187.1164790	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.56%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	728613514	202.0971963	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.05%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	46484040	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	42956371	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	24639212	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	26603611	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.54	1943846	0.1508751	ppb
12) T,M toluene	8.99	2443382	0.1951922	ppb
13) T,M ethylbenzene	10.07	2882435	0.2610446	ppb
14) T,M m&p-xylene	10.20	7388735	0.6107658	ppb
15) T,M o-xylene	10.48	2996378	0.2741742	ppb

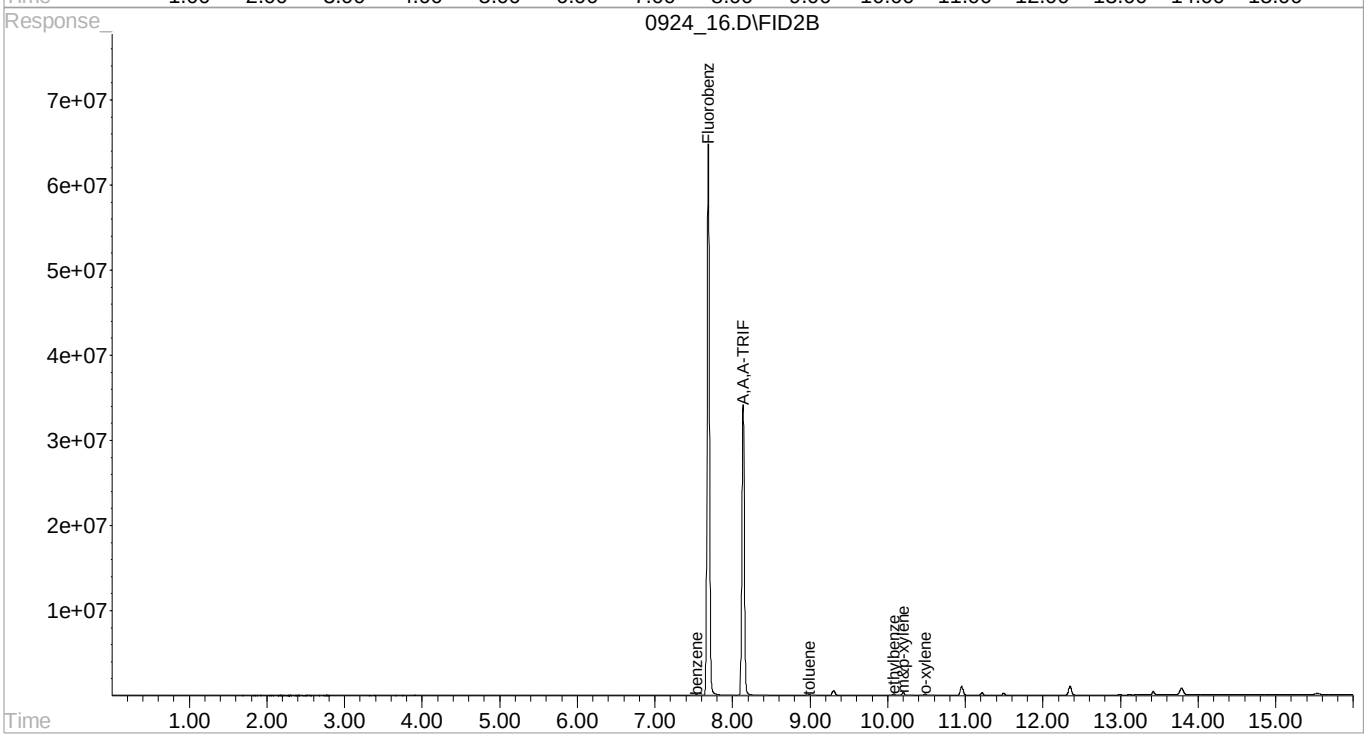
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID2B.CH
Acq On : 24 Sep 2014 2:53 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID2B.CH
Acq On : 24 Sep 2014 2:53 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

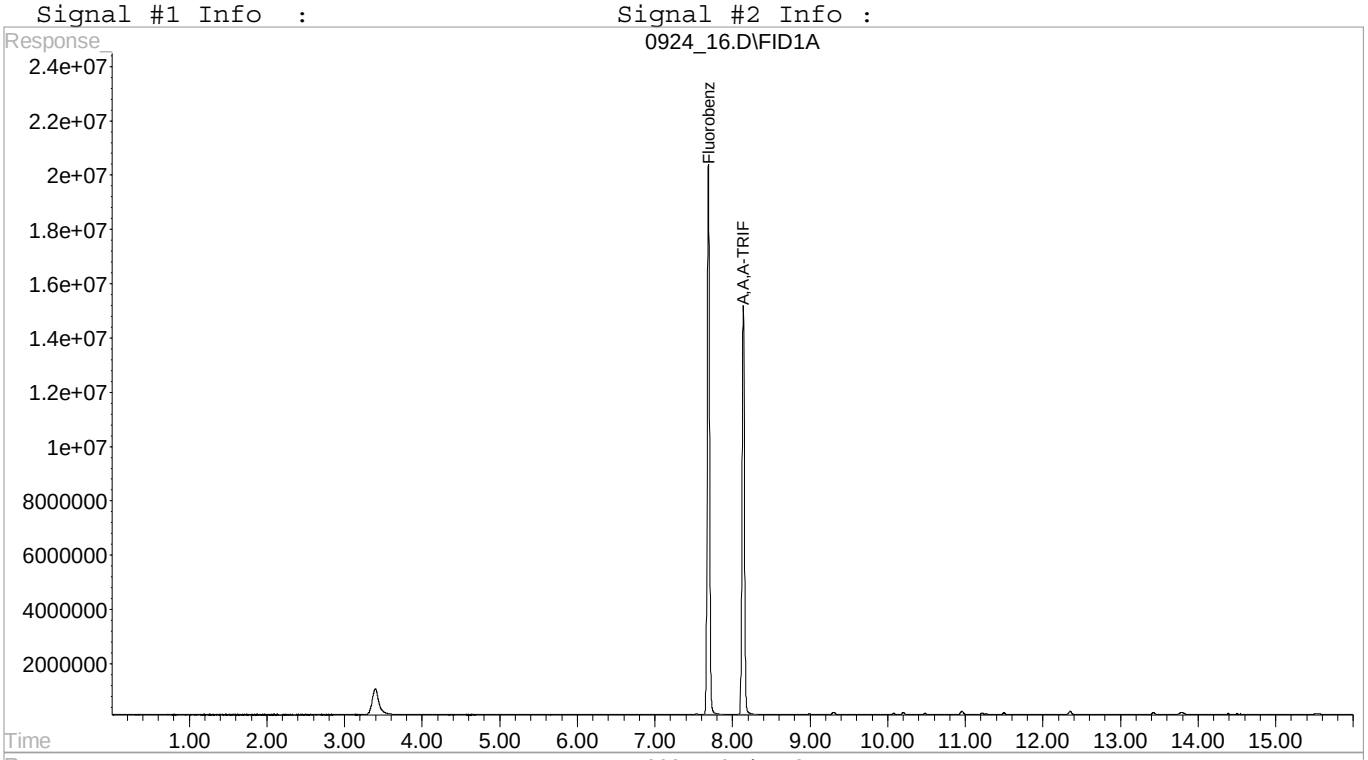
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	420489894	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1376804954	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	315575668	187.1164790	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.56%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	728613514	202.0971963	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.05%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	46484040	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	42956371	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	24639212	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	26603611	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.54	1943846	0.1508751	ppb
12) T,M toluene	8.99	2443382	0.1951922	ppb
13) T,M ethylbenzene	10.07	2882435	0.2610446	ppb
14) T,M m&p-xylene	10.20	7388735	0.6107658	ppb
15) T,M o-xylene	10.48	2996378	0.2741742	ppb

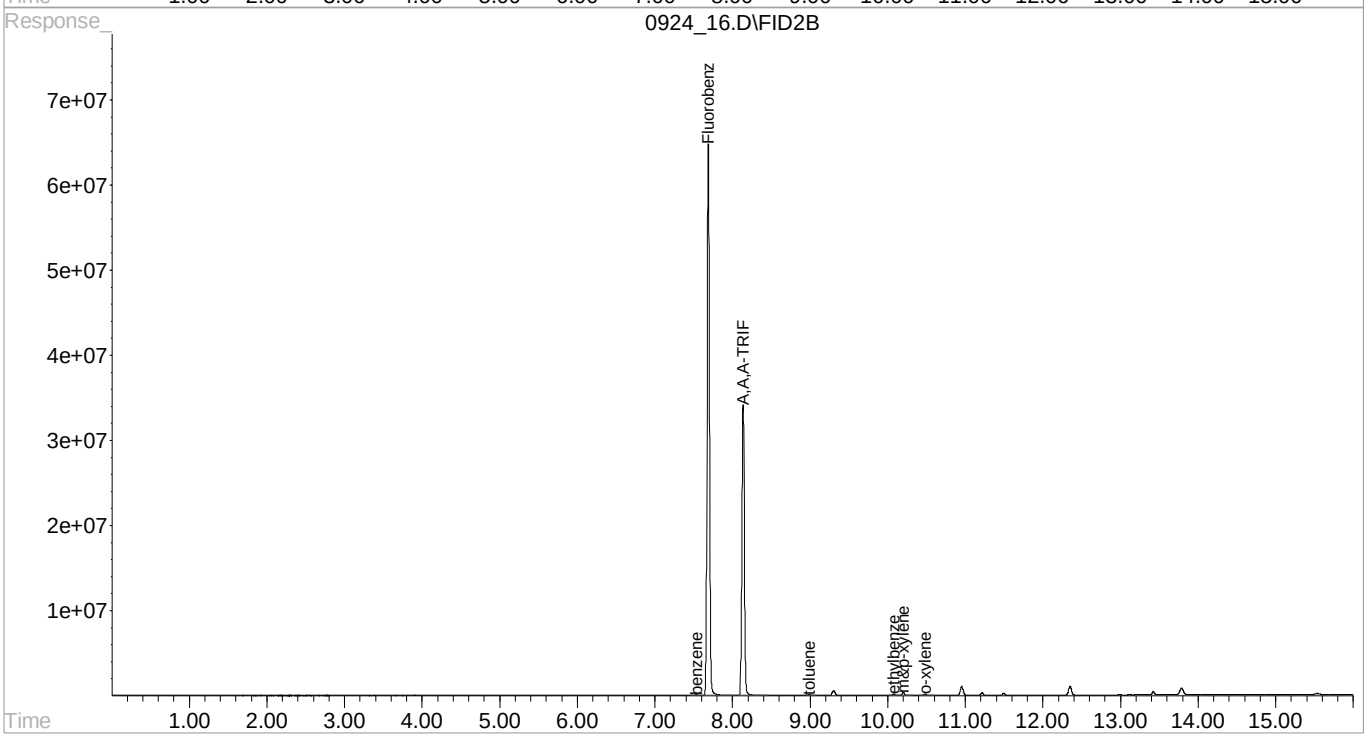
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID2B.CH
Acq On : 24 Sep 2014 2:53 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID2B.CH
Acq On : 24 Sep 2014 2:53 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

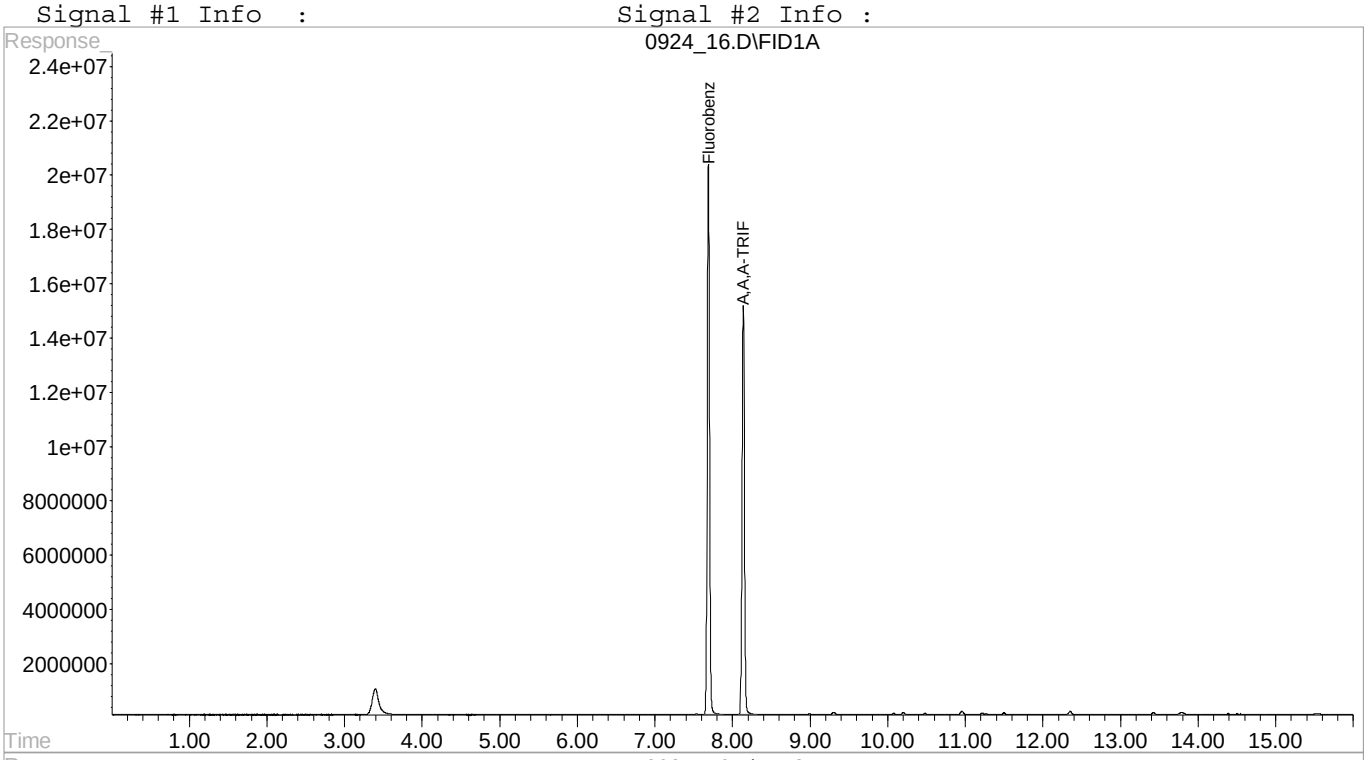
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	420489894	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1376804954	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	315575668	187.1164790	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.56%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	728613514	202.0971963	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 101.05%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	46484040	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	42956371	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	24639212	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	26603611	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.54	1943846	0.1508751	ppb
12) T,M toluene	8.99	2443382	0.1951922	ppb
13) T,M ethylbenzene	10.07	2882435	0.2610446	ppb
14) T,M m&p-xylene	10.20	7388735	0.6107658	ppb
15) T,M o-xylene	10.48	2996378	0.2741742	ppb

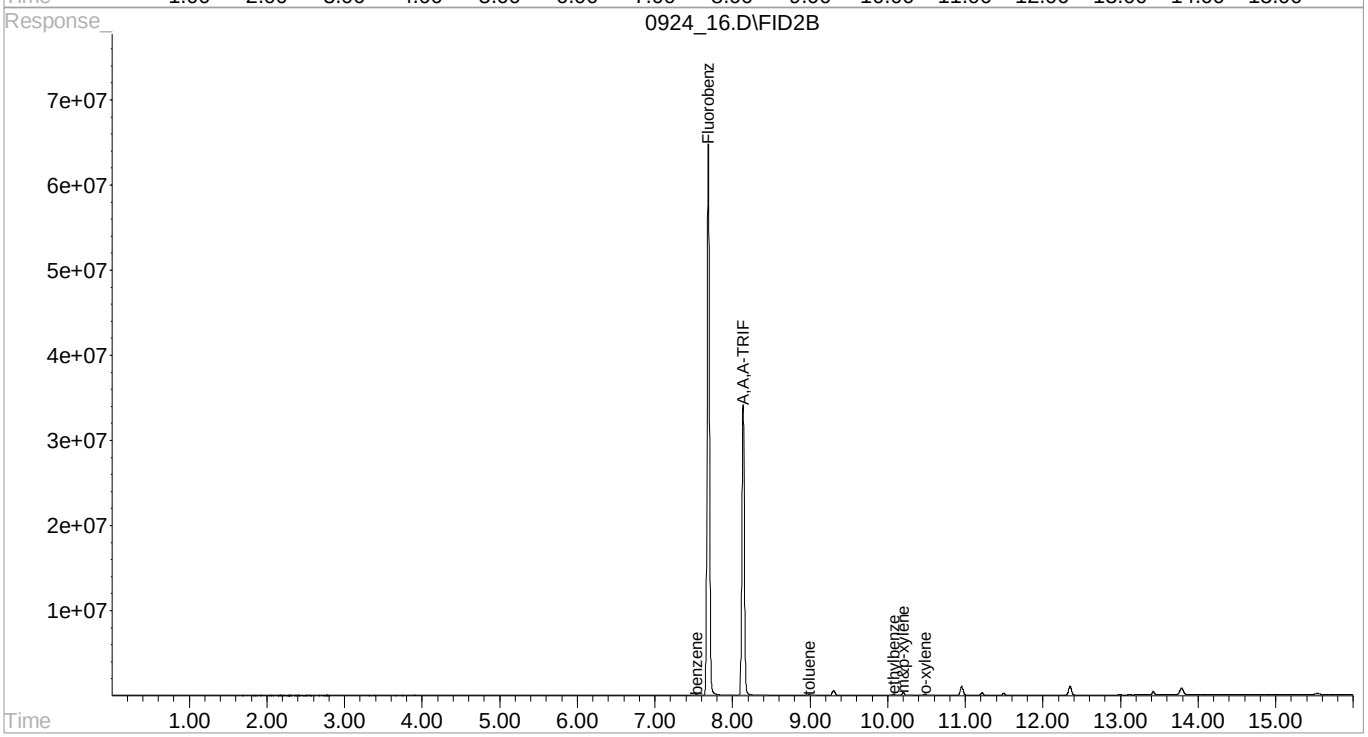
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 16.D\FID2B.CH
Acq On : 24 Sep 2014 2:53 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID2B.CH
Acq On : 24 Sep 2014 3:16 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

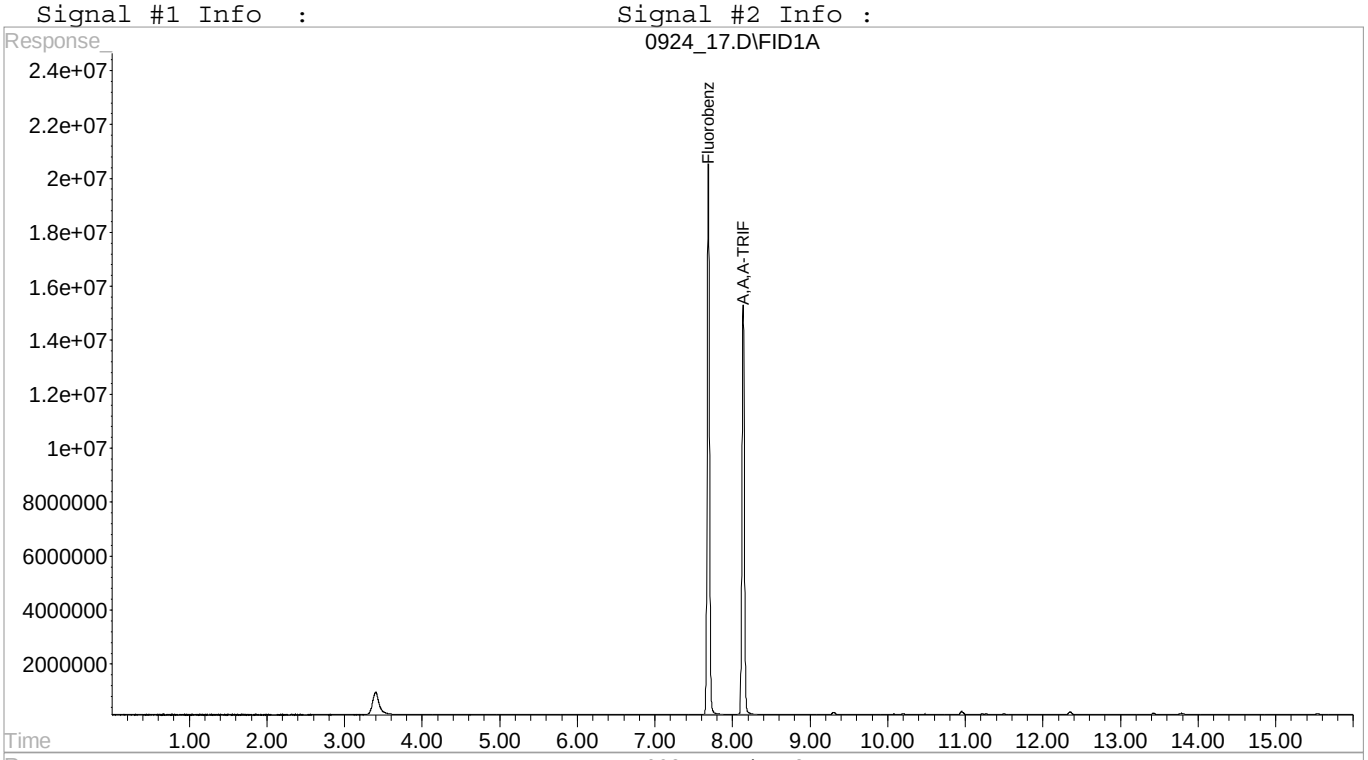
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424278084	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1386132636	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318157047	186.9627279	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.48%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	732900999	201.9184535	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 100.96%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	38024679	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	36642552	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	20459742	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	21654233	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.54	1077866	0.0830975	ppb
12) T,M toluene	8.99	1200596	0.0952655	ppb
13) T,M ethylbenzene	10.07	1242077	0.1117304	ppb
14) T,M m&p-xylene	10.20	3469556	0.2848696	ppb
15) T,M o-xylene	10.48	1432482	0.1301928	ppb

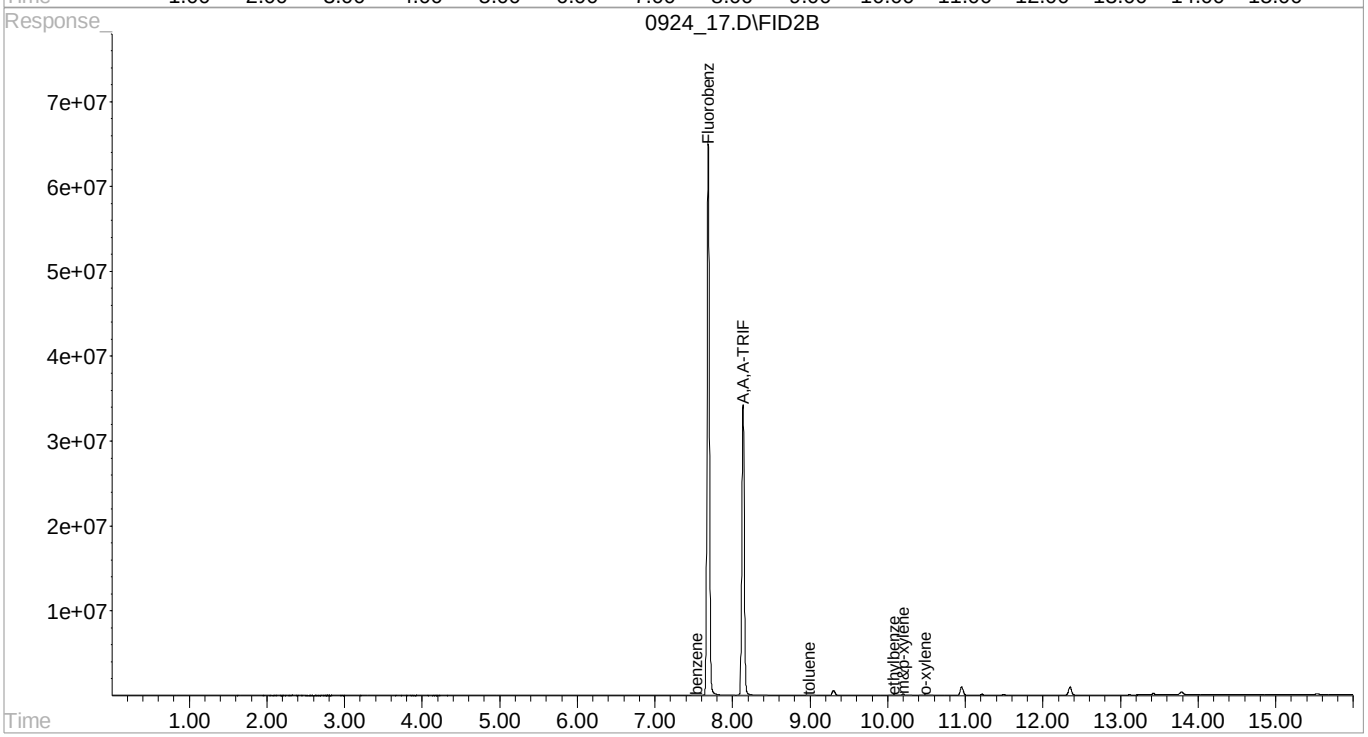
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID2B.CH
Acq On : 24 Sep 2014 3:16 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 17.D\FID1A.CH   Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID2B.CH
Acq On    : 24 Sep 2014   3:16 pm                    Operator: 621
Sample    : INSTBLK BTEX                             Inst    : VOCGC10
Misc      : soil ISURIS13I06372                      Multiplr: 1.00
IntFile Signal #1: EVENTS3.E     IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014  Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC03
Last Update  : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj.     :
Signal #1 Phase :                   Signal #2 Phase:
Signal #1 Info  :                   Signal #2 Info :
```

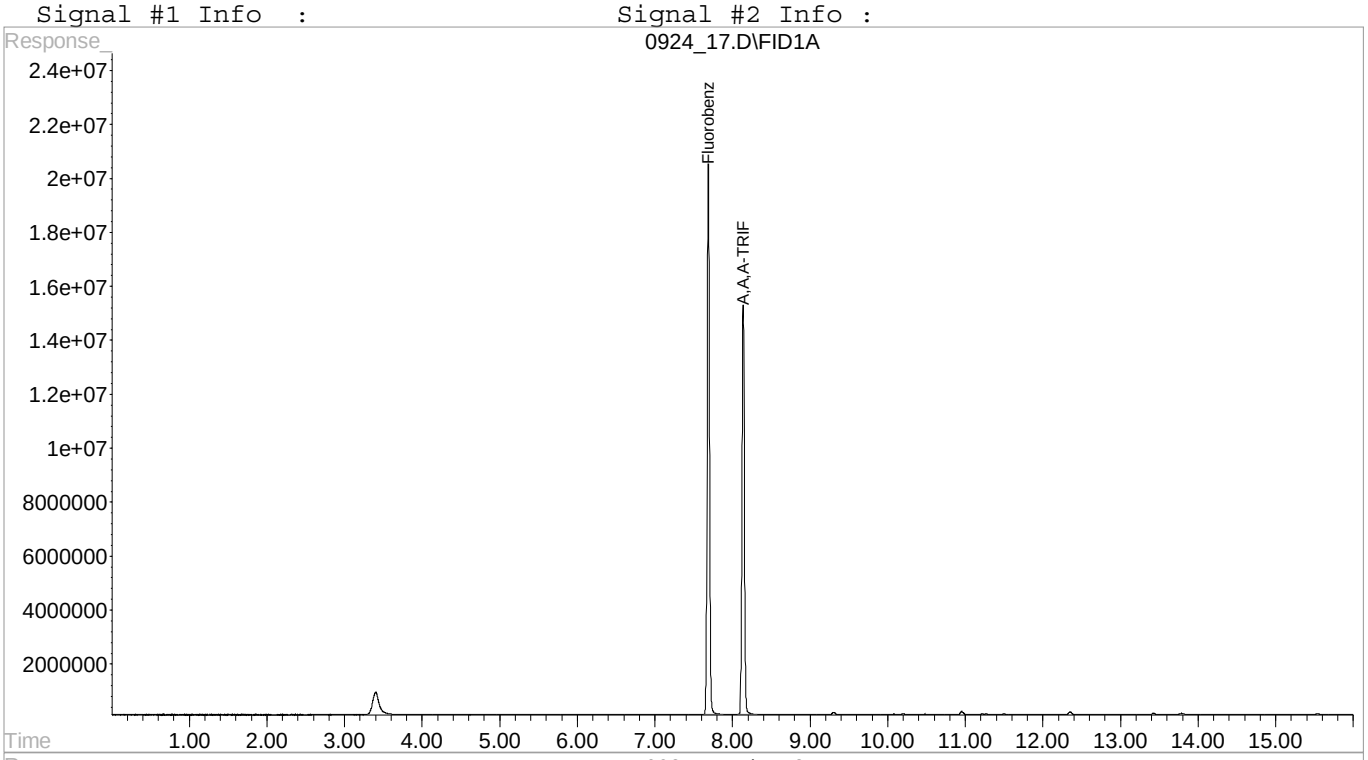
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424278084	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1386132636	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318157047	186.9627279	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.48%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	732900999	201.9184535	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 100.96%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	38024679	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	36642552	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	20459742	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	21654233	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.54	1077866	0.0830975	ppb
12) T,M toluene	8.99	1200596	0.0952655	ppb
13) T,M ethylbenzene	10.07	1242077	0.1117304	ppb
14) T,M m&p-xylene	10.20	3469556	0.2848696	ppb
15) T,M o-xylene	10.48	1432482	0.1301928	ppb

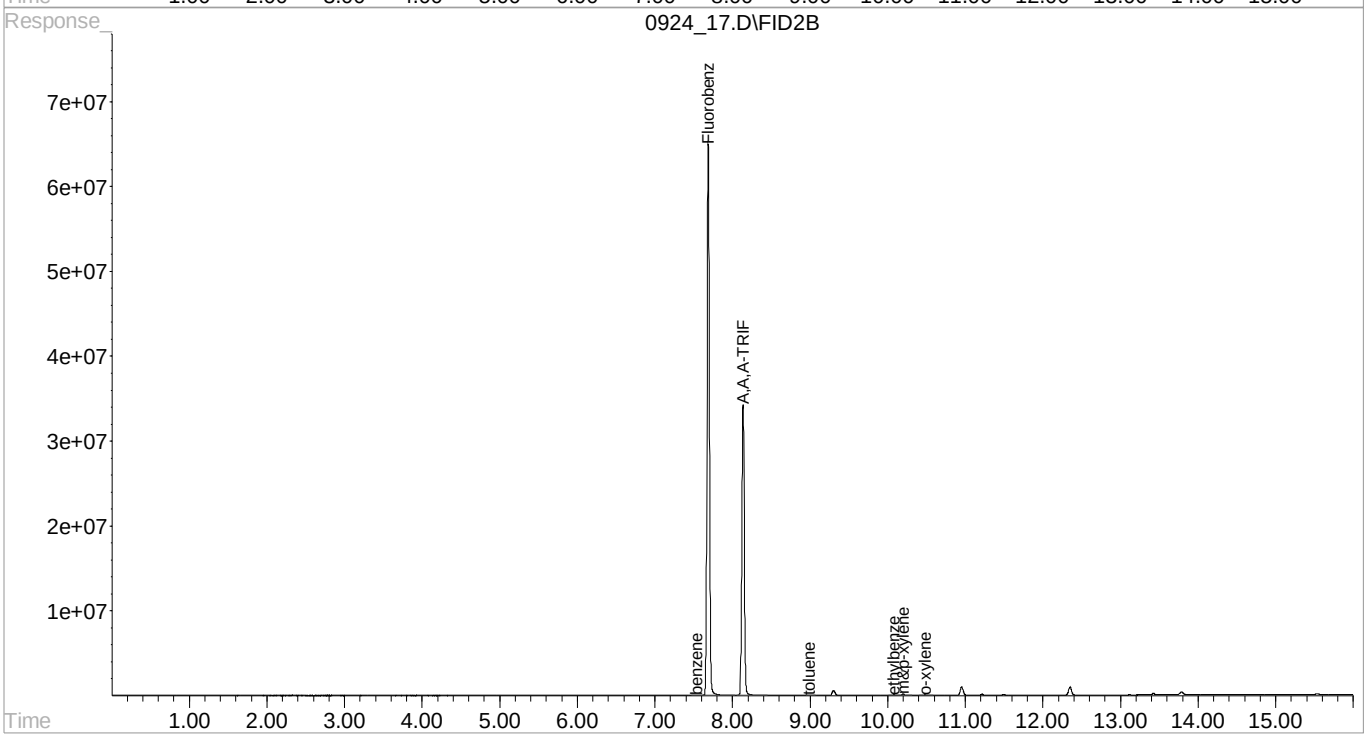
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID2B.CH
Acq On : 24 Sep 2014 3:16 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID2B.CH
Acq On : 24 Sep 2014 3:16 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

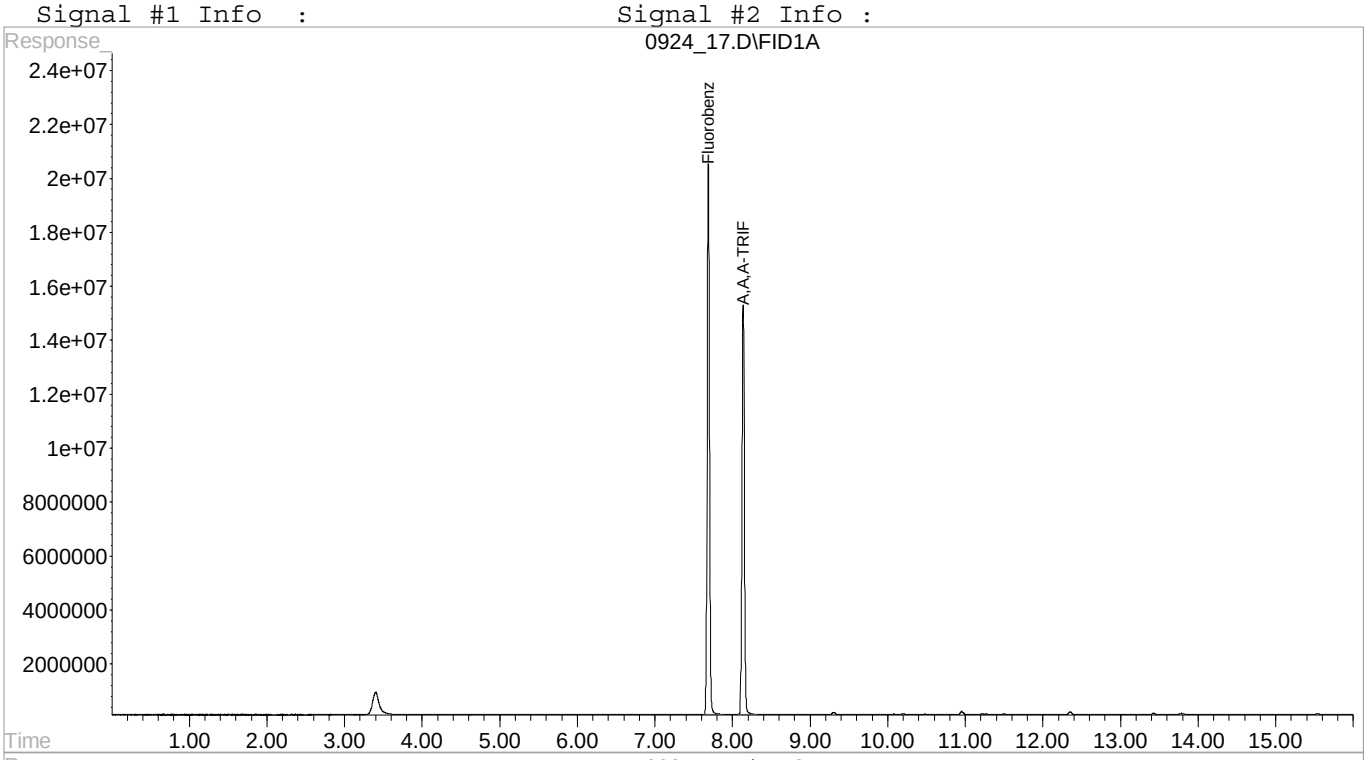
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424278084	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1386132636	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318157047	186.9627279	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.48%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	732900999	201.9184535	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 100.96%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	38024679	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	36642552	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	20459742	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	21654233	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.54	1077866	0.0830975	ppb
12) T,M toluene	8.99	1200596	0.0952655	ppb
13) T,M ethylbenzene	10.07	1242077	0.1117304	ppb
14) T,M m&p-xylene	10.20	3469556	0.2848696	ppb
15) T,M o-xylene	10.48	1432482	0.1301928	ppb

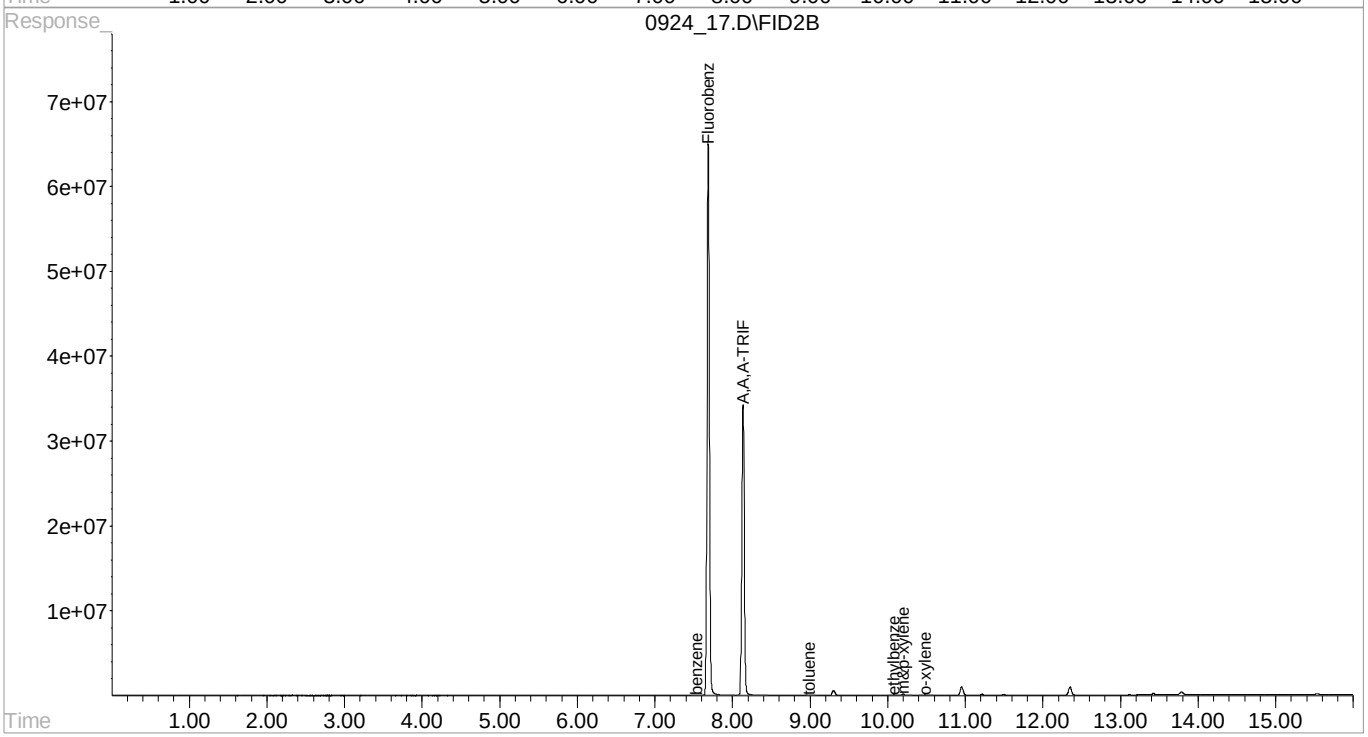
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 17.D\FID2B.CH
Acq On : 24 Sep 2014 3:16 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID2B.CH
Acq On : 24 Sep 2014 6:14 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

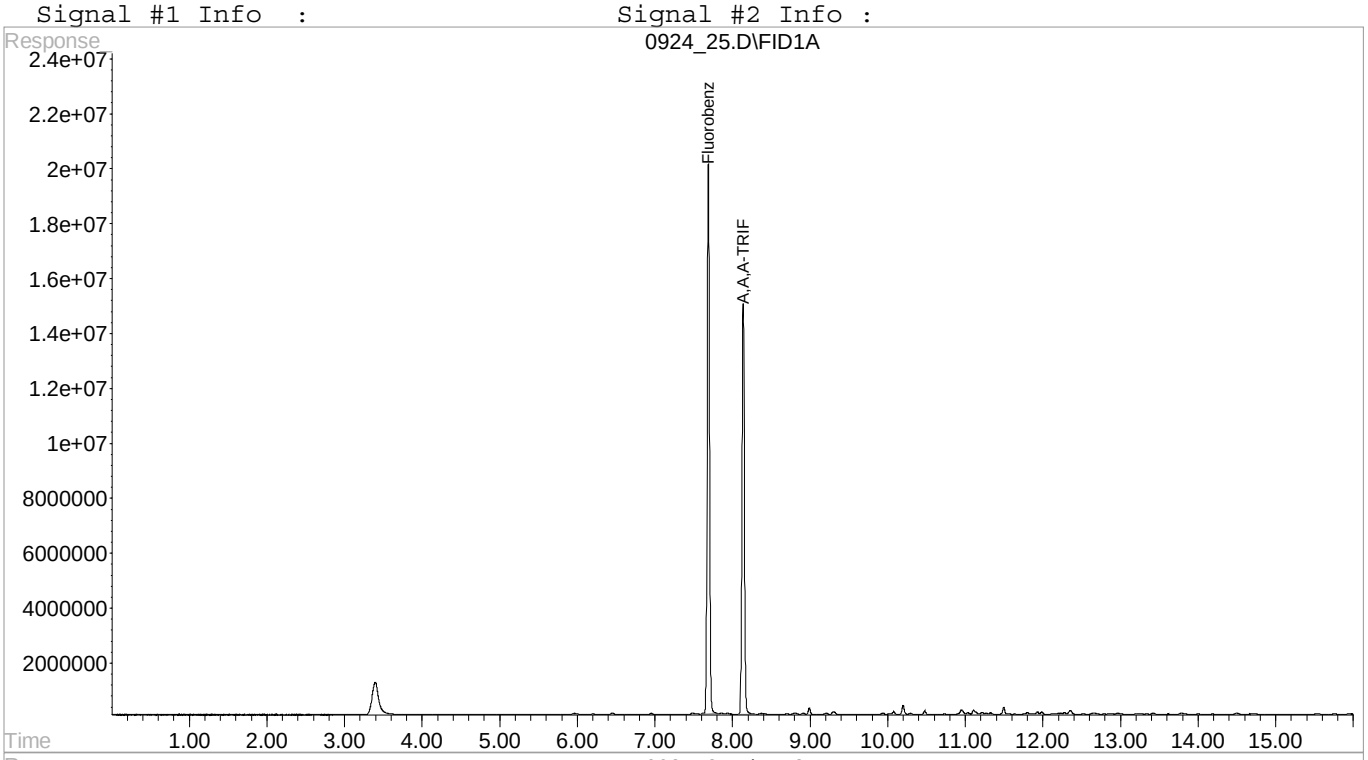
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	415053695	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1370103202	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	312846351	187.9277427	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.96%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	724374249	201.9041327	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 100.95%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	116484000	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	109983898	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	75675022	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	82230478	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.00	2169826	0.6476348	ppb
11) T,M benzene	7.53	3146892	0.2454463	ppb
12) T,M toluene	8.99	17339333	1.3919472	ppb
13) T,M ethylbenzene	10.07	7041615	0.6408355	ppb
14) T,M m&p-xylene	10.20	28019383	2.3274604	ppb
15) T,M o-xylene	10.47	8407518	0.7730668	ppb

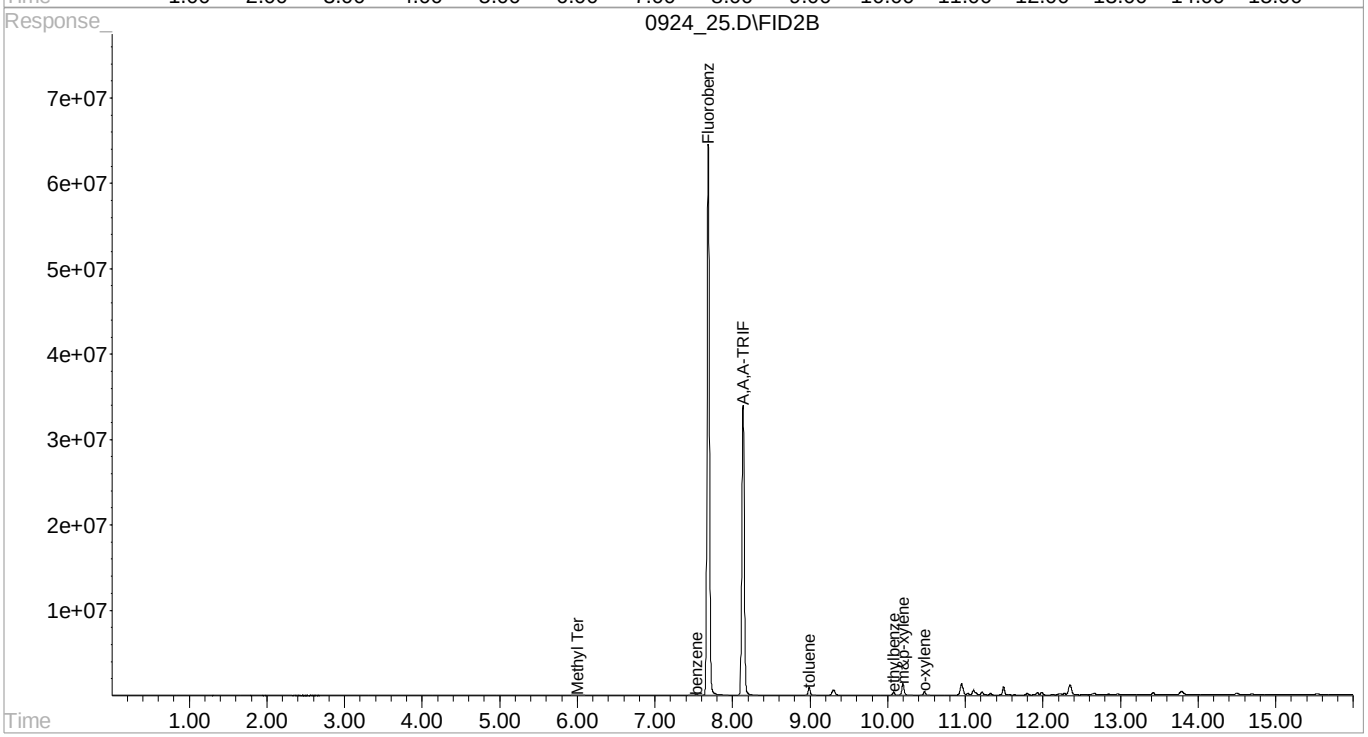
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID2B.CH
Acq On : 24 Sep 2014 6:14 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID2B.CH
Acq On : 24 Sep 2014 6:14 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

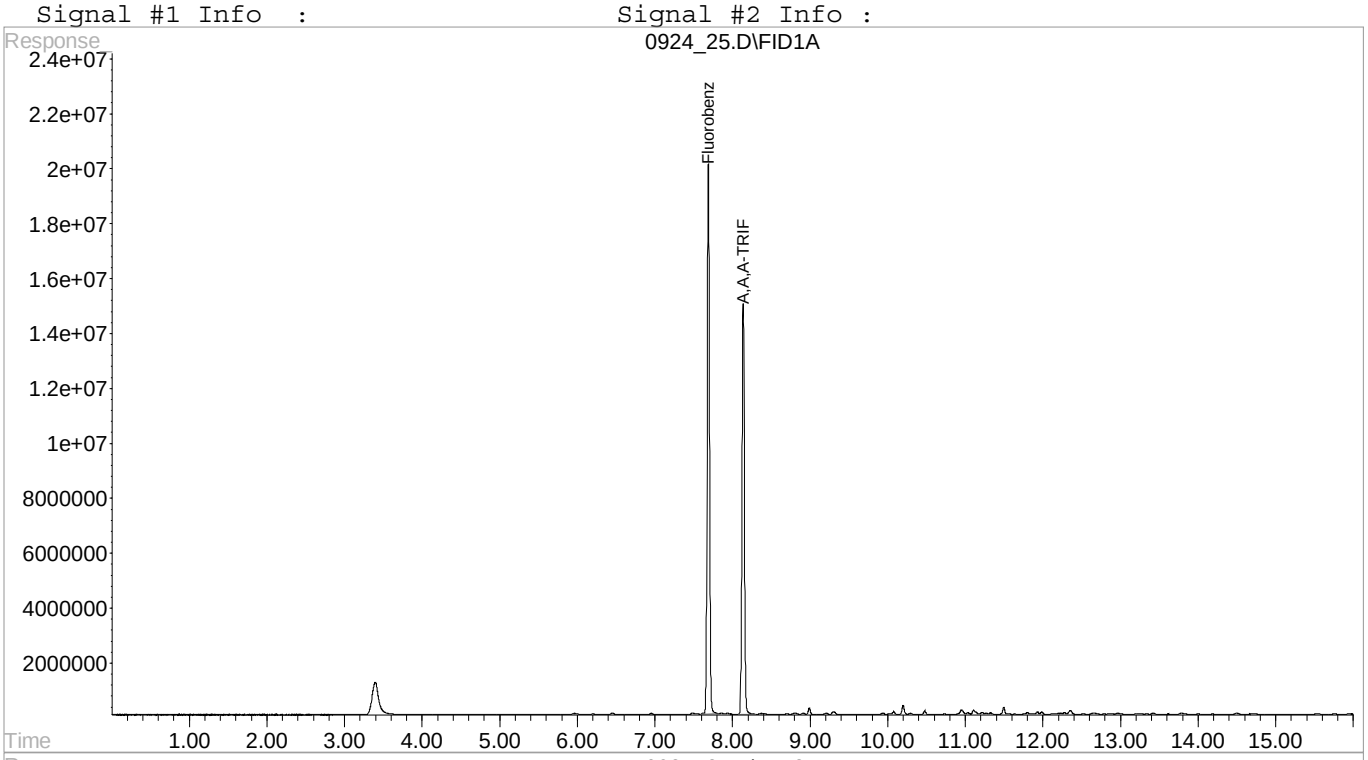
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	415053695	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1370103202	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	312846351	187.9277427	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.96%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	724374249	201.9041327	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 100.95%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	116484000	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	109983898	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	75675022	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	82230478	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.00	2169826	0.6476348	ppb
11) T,M benzene	7.53	3146892	0.2454463	ppb
12) T,M toluene	8.99	17339333	1.3919472	ppb
13) T,M ethylbenzene	10.07	7041615	0.6408355	ppb
14) T,M m&p-xylene	10.20	28019383	2.3274604	ppb
15) T,M o-xylene	10.47	8407518	0.7730668	ppb

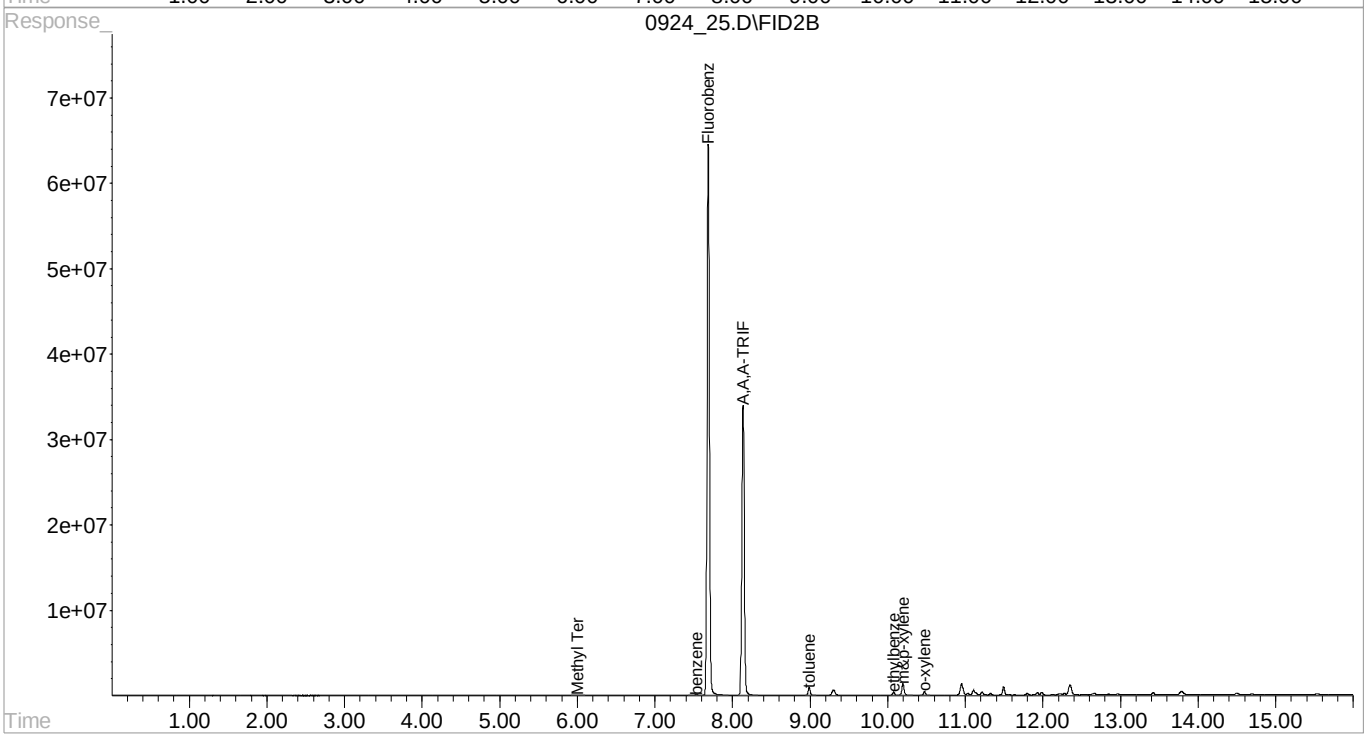
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID2B.CH
Acq On : 24 Sep 2014 6:14 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.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\092414\0924 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID2B.CH
Acq On : 24 Sep 2014 6:14 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Initial Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

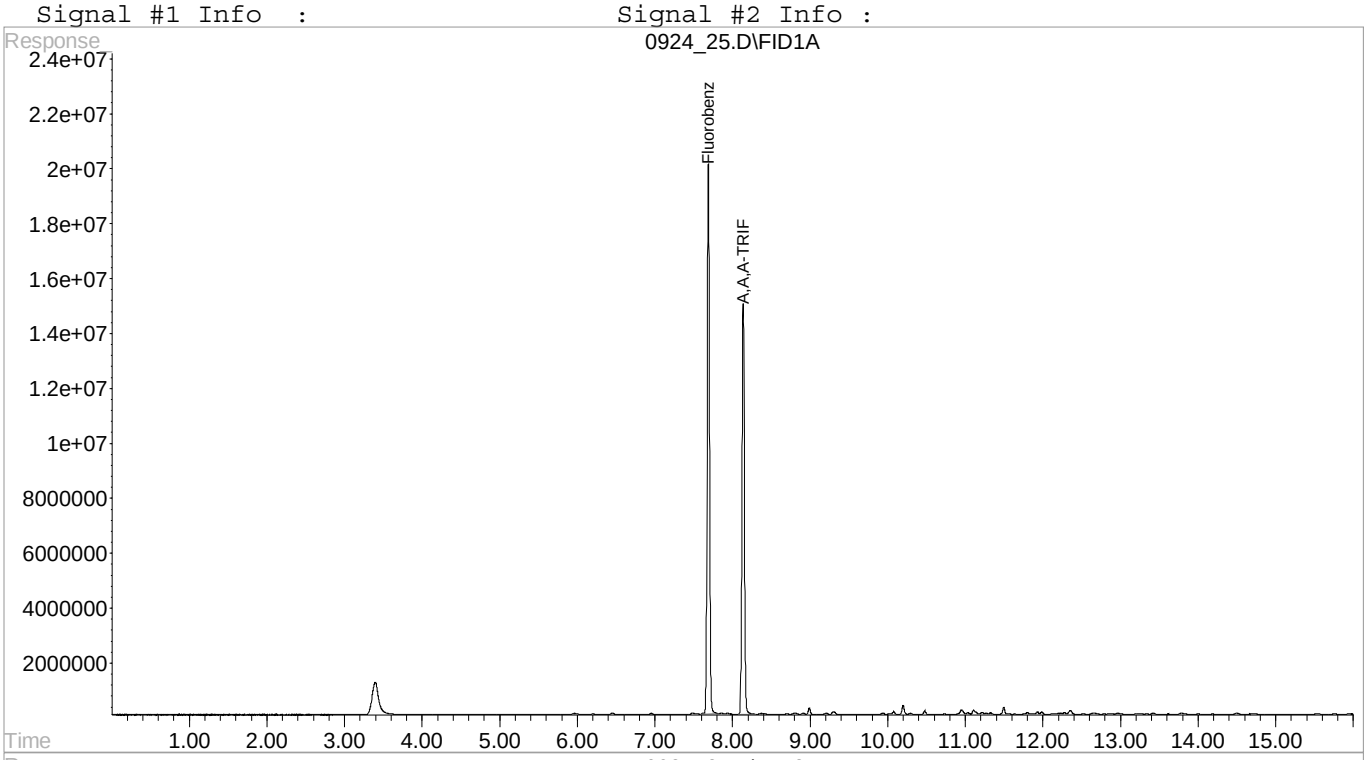
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	415053695	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1370103202	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	312846351	187.9277427	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 93.96%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	724374249	201.9041327	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 100.95%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	116484000	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	109983898	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	75675022	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	82230478	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	6.00	2169826	0.6476348	ppb
11) T,M benzene	7.53	3146892	0.2454463	ppb
12) T,M toluene	8.99	17339333	1.3919472	ppb
13) T,M ethylbenzene	10.07	7041615	0.6408355	ppb
14) T,M m&p-xylene	10.20	28019383	2.3274604	ppb
15) T,M o-xylene	10.47	8407518	0.7730668	ppb

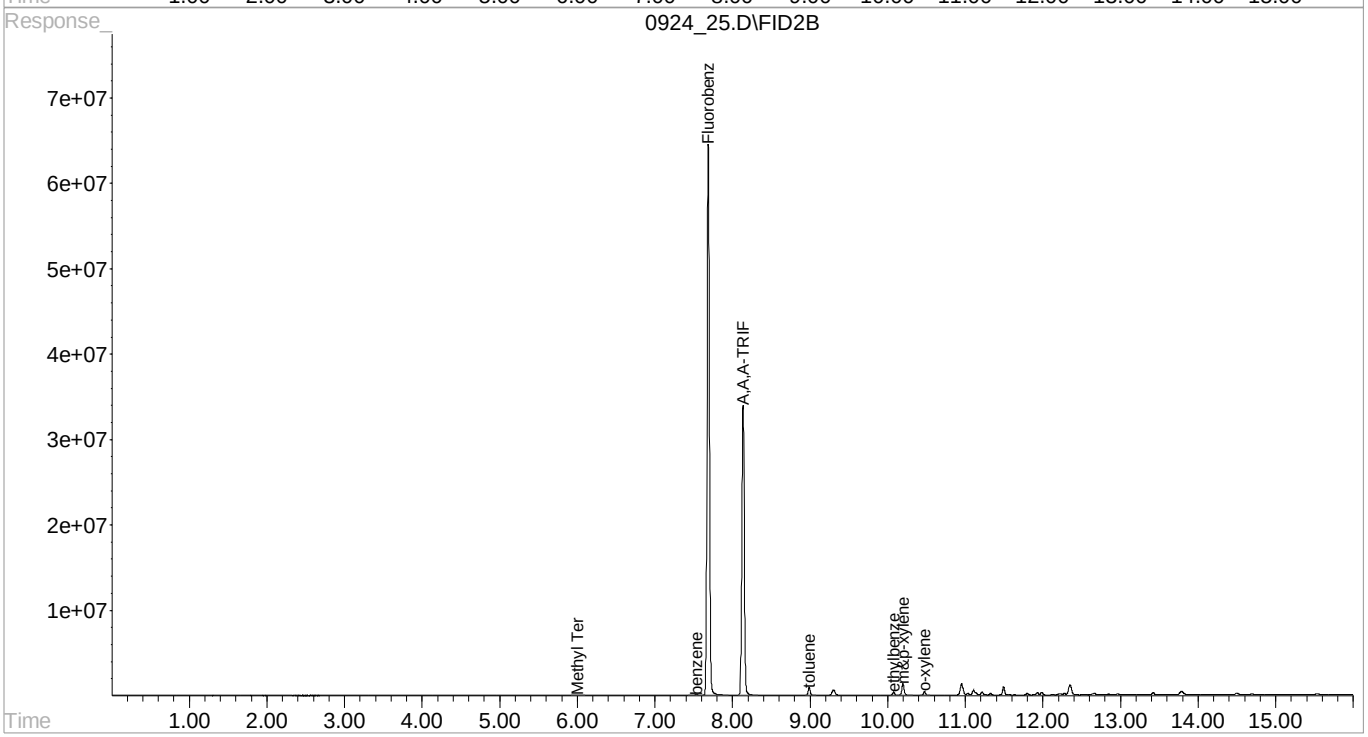
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\092414\0924 25.D\FID2B.CH
Acq On : 24 Sep 2014 6:14 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC10
Misc : soil ISURIS13I06372 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 24 21:33 2014 Quant Results File: BG10I24N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG10I24N.M (Chemstation Integrator)
Title : WIS GRO VOCGC03
Last Update : Wed Sep 24 21:31:20 2014
Response via : Single Level Calibration
DataAcq Meth : BTEXGRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Instrument: VOCGC12
Method: BG12H09N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0708_02A.D	0.5	7/8/2014 8:06:00 PM
0708_03A.D	1	7/8/2014 8:27:00 PM
0708_04A.D	5	7/8/2014 8:48:00 PM
0708_05A.D	10	7/8/2014 9:09:00 PM
0708_06A.D	25	7/8/2014 9:30:00 PM
0708_07A.D	50	7/8/2014 9:51:00 PM
0708_08A.D	100	7/8/2014 10:12:00 PM
0708_09A.D	150	7/8/2014 10:33:00 PM
0708_10A.D	200	7/8/2014 10:54:00 PM
0708_11A.D	250	7/8/2014 11:15:00 PM
0809_03.D	.05G	8/9/2014 10:53:00 PM
0809_04.D	.11G	8/9/2014 11:14:00 PM
0809_05.D	.55G	8/9/2014 11:35:00 PM
0809_06.D	1.1G	8/9/2014 11:55:00 PM
0809_07.D	2.7G	8/10/2014 12:16:00 AM
0809_08.D	5.5G	8/10/2014 12:37:00 AM
0809_09.D	11G	8/10/2014 12:58:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : Ben Baker
Date Released : 8/11/2014 12:53:10 PM
Run ID : 070814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0708_01A	INSTBLK	BG12G08N						1	1	07/08/14 1945	"soil SURIS14F10114"
2	0708_02a	STD BTEX 0.5 PPB 14B19652	BG12G08N						1	1	07/08/14 2006	"soil SURIS14F10114"
3	0708_03a	STD BTEX 1 PPB 14B19652	BG12G08N						1	1	07/08/14 2027	"soil SURIS14F10114"
4	0708_04a	STD BTEX 5 PPB 14B19652	BG12G08N						1	1	07/08/14 2048	"soil SURIS14F10114"
5	0708_05a	STD BTEX 10 PPB 14B19652	BG12G08N						1	1	07/08/14 2109	"soil SURIS14F10114"
6	0708_06a	STD BTEX 25 PPB 14B19652	BG12G08N						1	1	07/08/14 2130	"soil SURIS14F10114"
7	0708_07A	MSTD BTEX 50 PPB 14B19652	BG12G08N						1	1	07/08/14 2151	"soil SURIS14F10114"
8	0708_08a	STD BTEX 100 PPB 14B19652	BG12G08N						1	1	07/08/14 2212	"soil SURIS14F10114"
9	0708_09a	STD BTEX 150 PPB 14B19652	BG12G08N						1	1	07/08/14 2233	"soil SURIS14F10114"
10	0708_10a	STD BTEX 200 PPB 14B19652	BG12G08N						1	1	07/08/14 2254	"soil SURIS14F10114"
11	0708_11a	STD BTEX 250 PPB 14B19652	BG12G08N						1	1	07/08/14 2315	"soil SURIS14F10114"
12	0809_01	INSTBLK	BG12H09N						1	1	08/09/14 2211	"soil SURIS14F10114"
13	0809_03	STD GRO .055 PPM 14G07650	BG12H09N						1	1	08/09/14 2253	"soil SURIS14F10114"
14	0809_04	STD GRO .11 PPM 14G07650	BG12H09N						1	1	08/09/14 2314	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : Ben Baker
Date Released : 8/11/2014 12:53:10 PM
Run ID : 070814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	0809_05	STD GRO .55 PPM 14G07650	BG12H09N						1	1	08/09/14 2335	"soil SURIS14F10114"
16	0809_06	STD GRO 1.1 PPM 14G07650	BG12H09N						1	1	08/09/14 2355	"soil SURIS14F10114"
17	0809_07	STD GRO 2.75 PPM 14G07650	BG12H09N						1	1	08/10/14 0016	"soil SURIS14F10114"
18	0809_08	MSTD GRO 5.5G PPM 14G07650	BG12H09N						1	1	08/10/14 0037	"soil SURIS14F10114"
19	0809_09	STD GRO 11 PPM 14G07650	BG12H09N						1	1	08/10/14 0058	"soil SURIS14F10114"
20	0809_11	SSCV GRO 5.5G PPM 14G07651	BG12H09N						1	1	08/10/14 0140	"soil SURIS14F10114"

Mint Miner 2.03 (80118) Directory Scan: y:\080914

11 Aug 2014 13:16

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\080914\0809_01.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_01a.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: y:\080914\0809_02.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_02a.D\FID1A.CH					
0	Scanned		621	VOCGC12	RT (soil SURIS14F10114)
Scan File Path: y:\080914\0809_03.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_03a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO .055 ppm 14G07650 (soil SURIS14
Scan File Path: y:\080914\0809_04.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_04a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO .11 ppm 14G07650 (soil SURIS14F1
Scan File Path: y:\080914\0809_05.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_05a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO .55 ppm 14G07650 (soil SURIS14F1
Scan File Path: y:\080914\0809_06.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_06a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO 1.1 ppm 14G07650 (soil SURIS14F
Scan File Path: y:\080914\0809_07.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_07a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO 2.75 ppm 14G07650 (soil SURIS14
Scan File Path: y:\080914\0809_08.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_08a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO 5.5 ppm 14G07650 (soil SURIS14F
Scan File Path: y:\080914\0809_09.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_09a.D\FID1A.CH					
18	Scanned	D(12), DK(2), DC(2), MQ(1), M(1)	621	VOCGC12	STD GRO 11 ppm 14G07650 (soil SURIS14F1
Scan File Path: y:\080914\0809_10.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_10a.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: y:\080914\0809_11.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_11a.D\FID1A.CH					
0	Scanned		621	VOCGC12	SSCV GRO 5.5 ppm 14G07651 (soil SURIS14

Mint Miner 2.03 (80118) Directory Scan: y:\080914

11 Aug 2014 13:16

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\080914\0809_12.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_12a.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)

D = Deletion of any analyte
DK = Deletion of a spike compound
MQ = Manual integration and deletion of the same analyte
DC = Deletion of a CCC
M = Manual integration (non-specific)

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

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: 8015D	Released By	: Ben Baker
Method	: BG12H09N	Review Protocol	: IN	Released On	: 8/11/2014 12:53:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H09N -- ICal Updated Time: Mon Aug 11 12:45:27 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	1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1	1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1	1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1	1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	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

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: AK101	Released By	: Ben Baker
Method	: BG12H09N	Review Protocol	: AK	Released On	: 8/11/2014 12:52:08 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H09N -- ICal Updated Time: Mon Aug 11 12:45:27 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	1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1	1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1	1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1	1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	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

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: GROAZ	Released By	: Ben Baker
Method	: BG12H09N	Review Protocol	: AZ	Released On	: 8/11/2014 12:52:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H09N -- ICal Updated Time: Mon Aug 11 12:45:27 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	1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1	1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1	1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1	1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	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

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

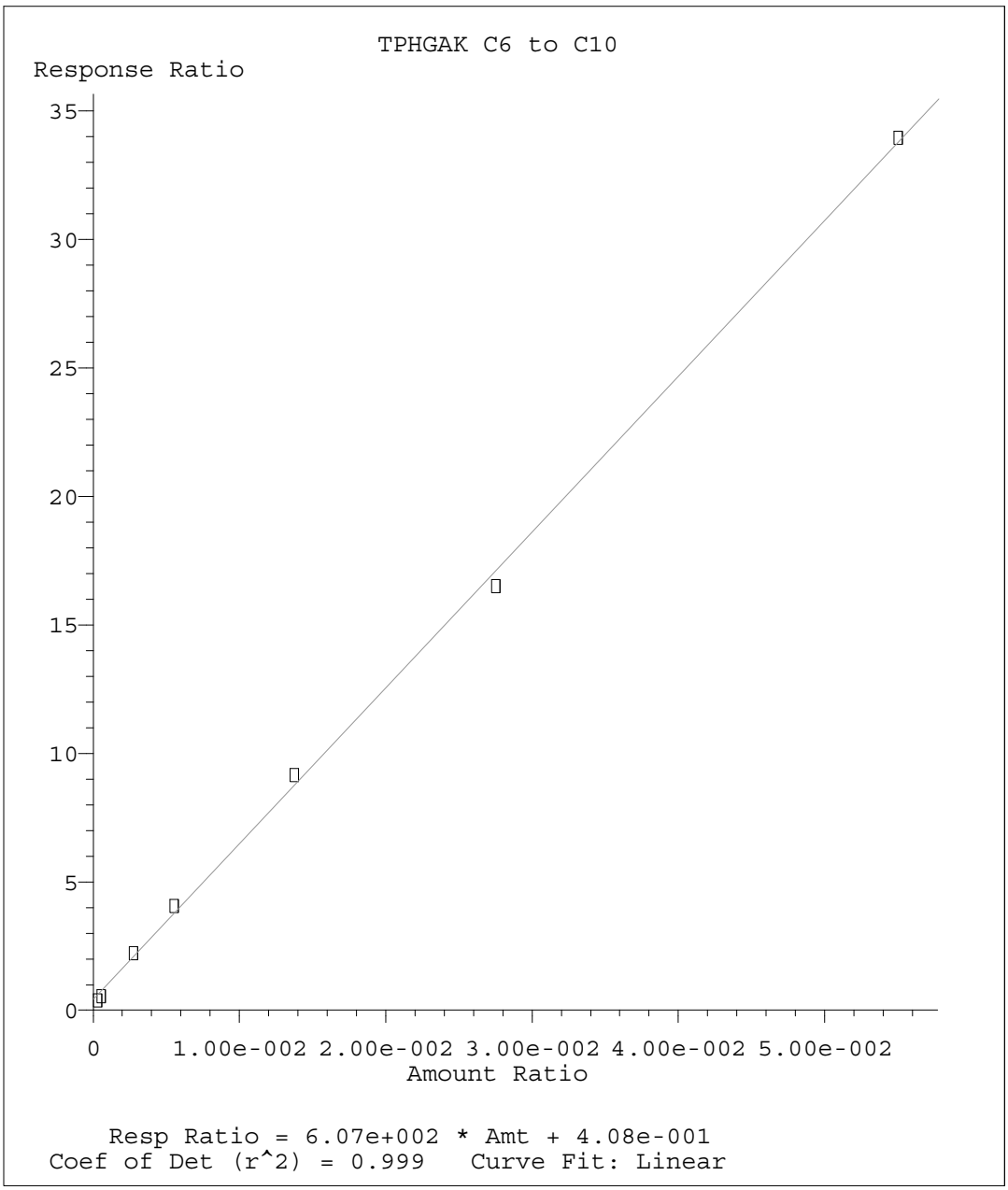
INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: 8015-8021	Released By	: Ben Baker
Method	: BG12H09N	Review Protocol	: SW846	Released On	: 8/11/2014 12:52:51 PM

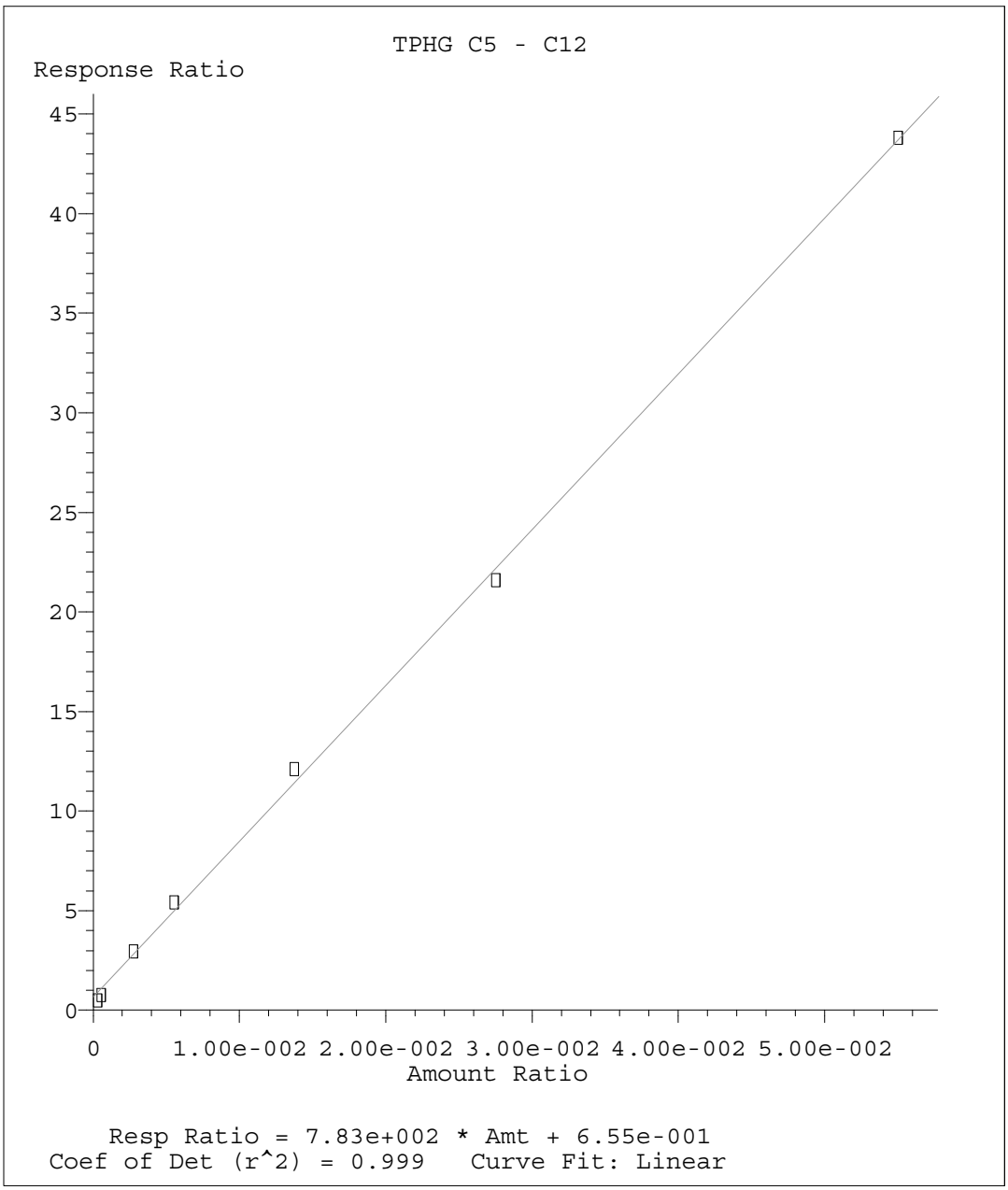
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H09N -- ICal Updated Time: Mon Aug 11 12:45:27 2014

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	1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1	1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1	1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1	1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	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

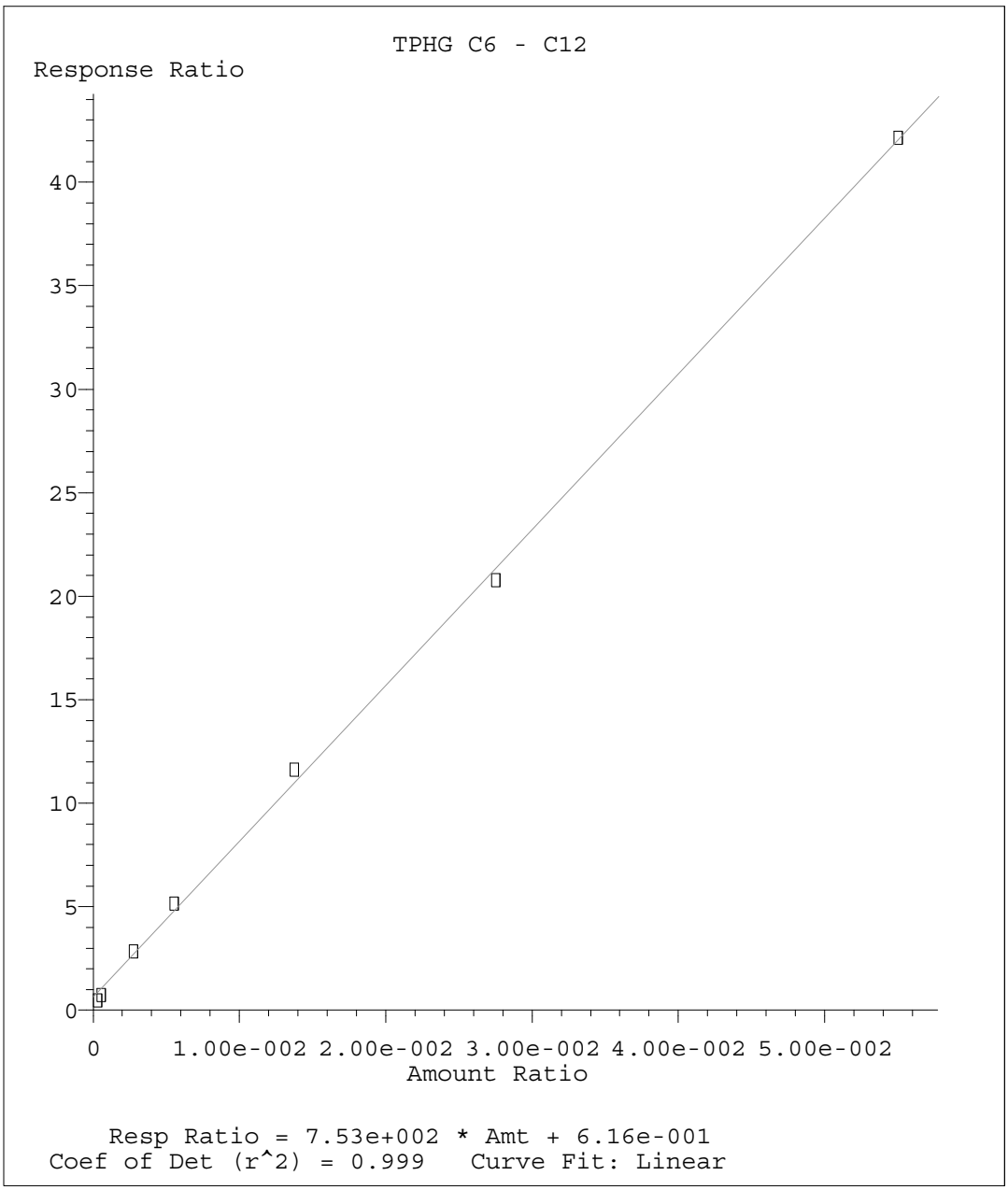
PDF Generated On: 08/11/2014 - By: Ben Baker



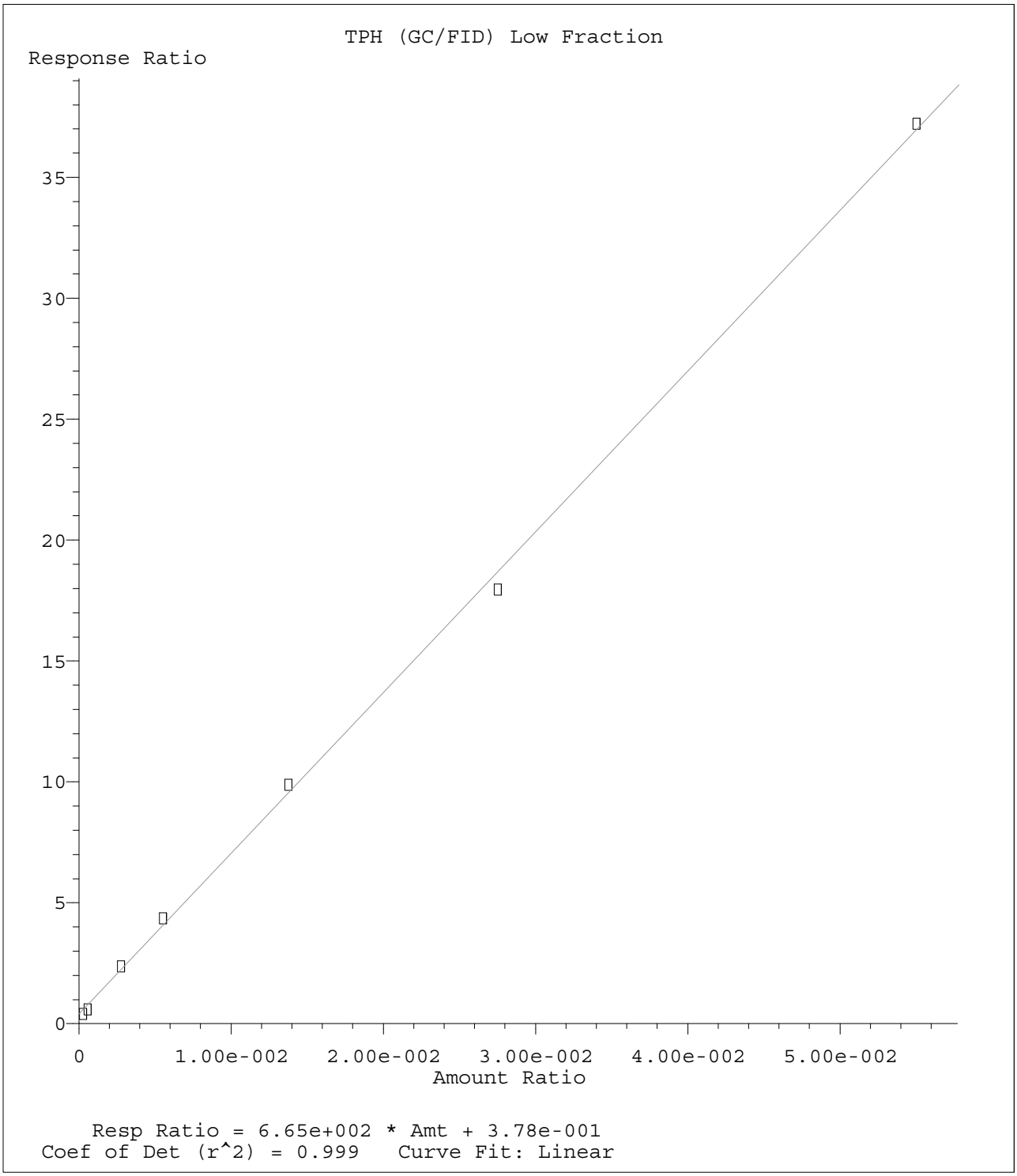
Method Name: C:\MSDCHEM\1\METHODS\BG12H09N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H09N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H09N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H09N.M
Calibration Table Last Updated: Mon Aug 11 12:45:27 2014

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46:03 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

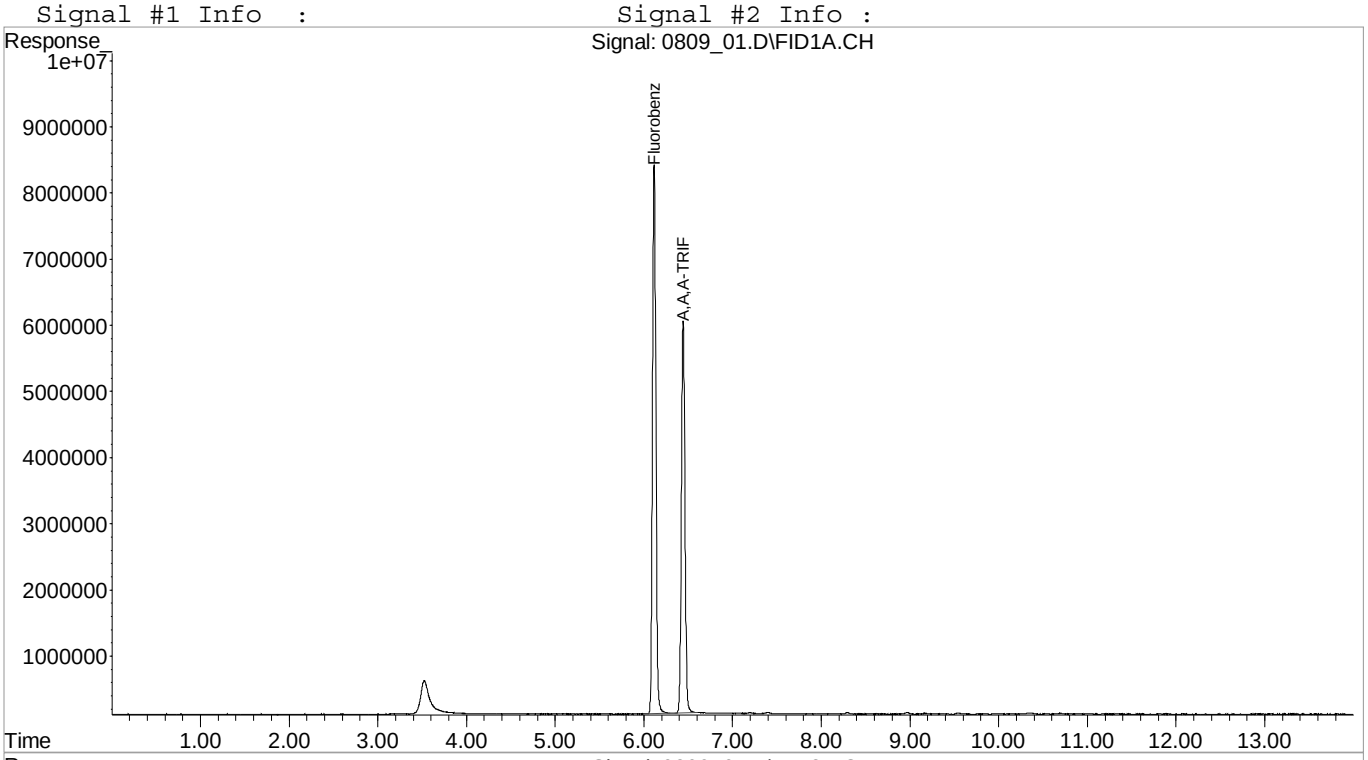
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	216690368	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1014599287	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	163479660	200.9622481	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	541716871	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	12658	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	50736698	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40284096	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28389519	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32094818	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	6578	NoCal	ppb
12) T,M benzene	6.01	454398	NoCal	ppb
13) T,M toluene	7.19	1957888	NoCal	ppb
14) T,M ethylbenzene	8.18	590024	NoCal	ppb
15) T,M m&p-xylene	8.29	2828513	NoCal	ppb
16) T,M o-xylene	8.56	944648	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	913653	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2635864	NoCal	ppb
19) T,M Naphthalene	11.49	66156	NoCal	ppb

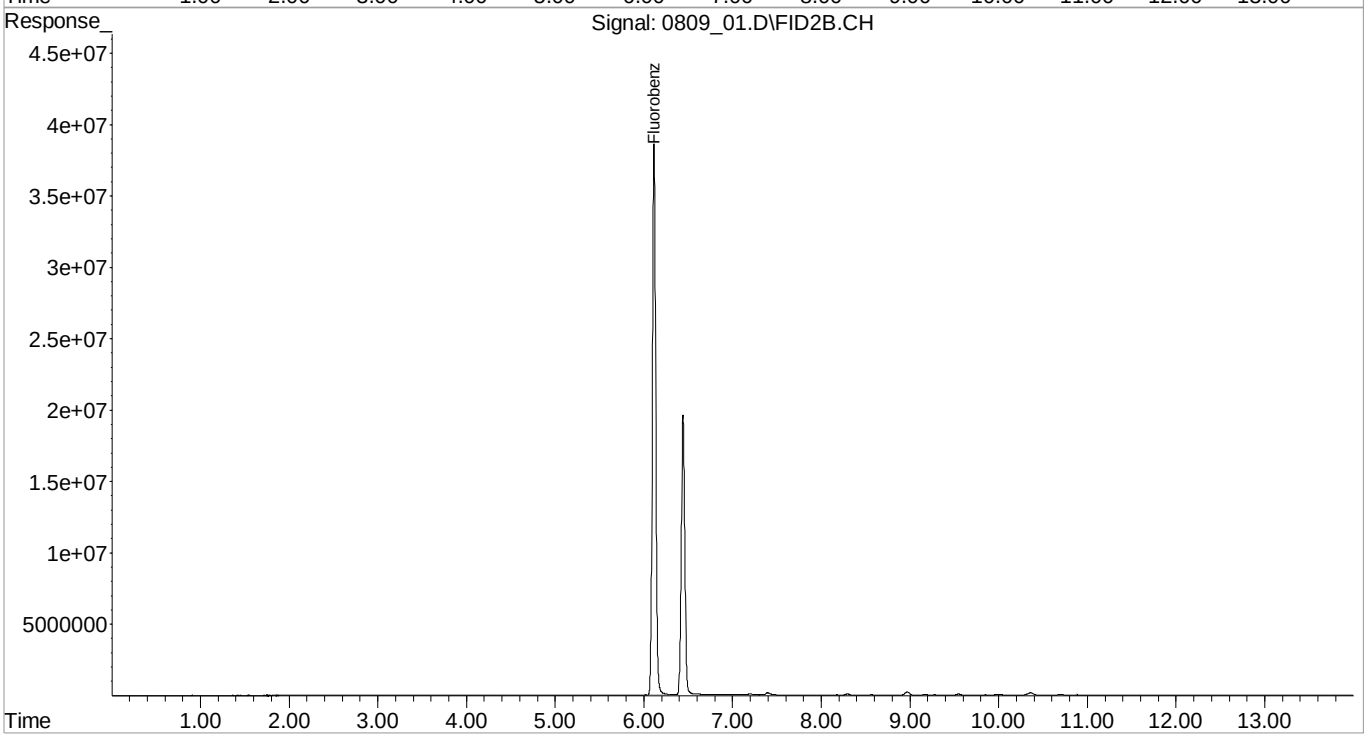
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46:03 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

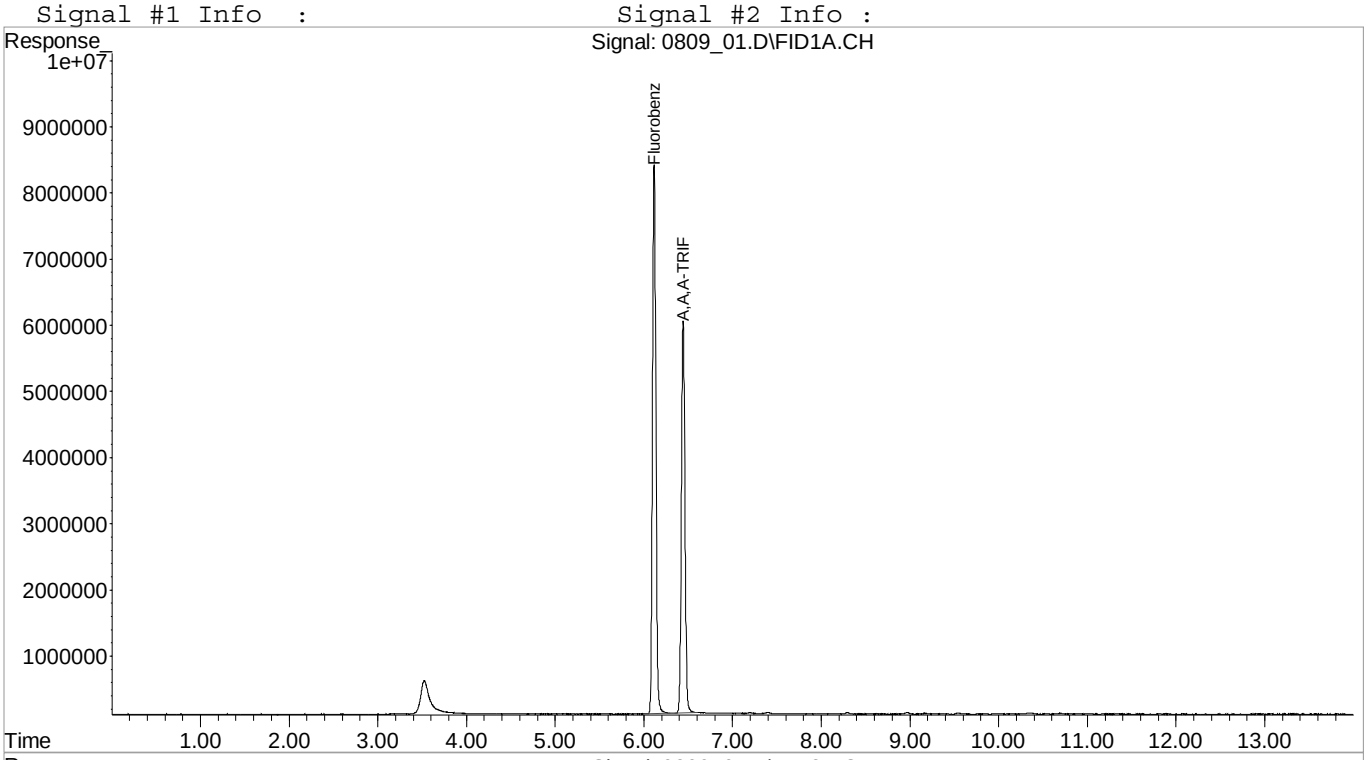
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	216690368	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1014599287	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	163479660	200.9622481	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	541716871	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	12658	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	50736698	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40284096	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28389519	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32094818	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	6578	NoCal	ppb
12) T,M benzene	6.01	454398	NoCal	ppb
13) T,M toluene	7.19	1957888	NoCal	ppb
14) T,M ethylbenzene	8.18	590024	NoCal	ppb
15) T,M m&p-xylene	8.29	2828513	NoCal	ppb
16) T,M o-xylene	8.56	944648	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	913653	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2635864	NoCal	ppb
19) T,M Naphthalene	11.49	66156	NoCal	ppb

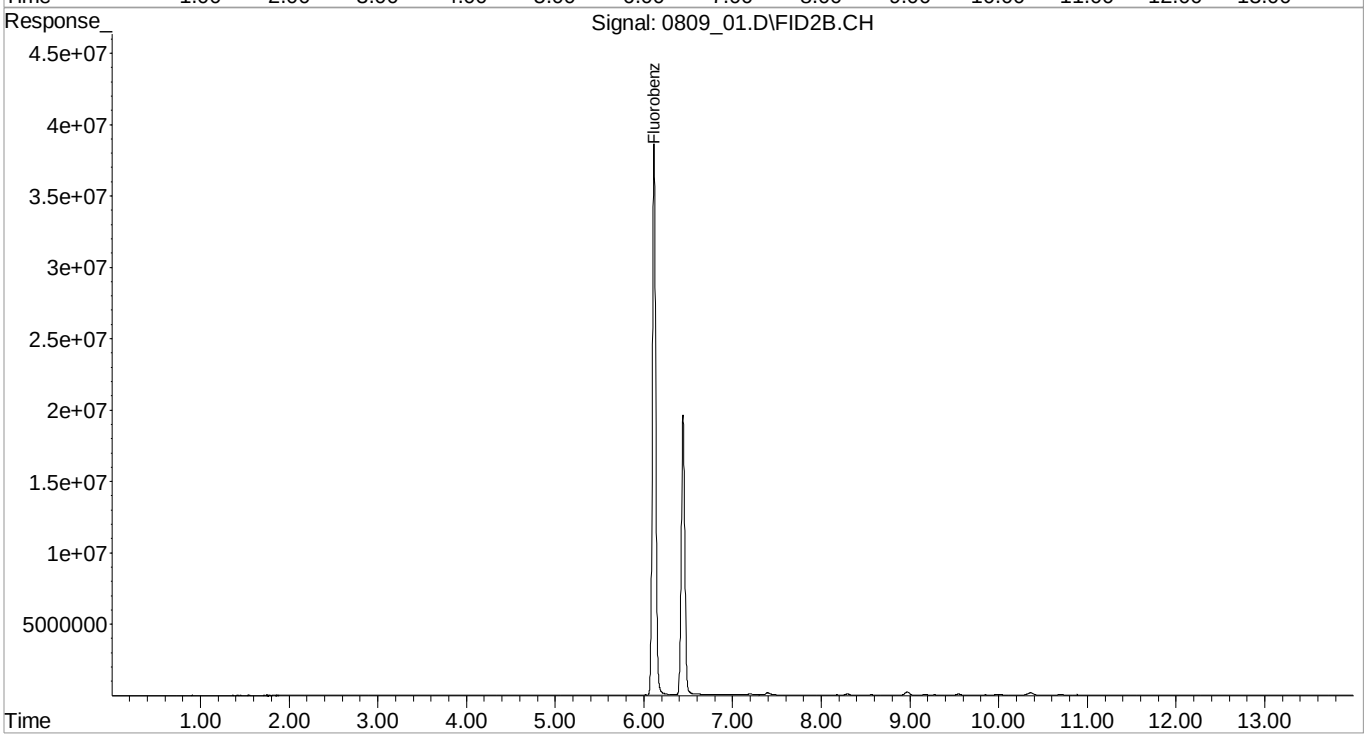
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID1A.CH  Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID2B.CH
Acq On    : 8-10-2014 01:40:48 AM                    Operator: 621
Sample    : SSCV GRO 5.5g ppm 14G07651               Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:45:38 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                   Signal #2 Phase:
Signal #1 Info  :                   Signal #2 Info :
```

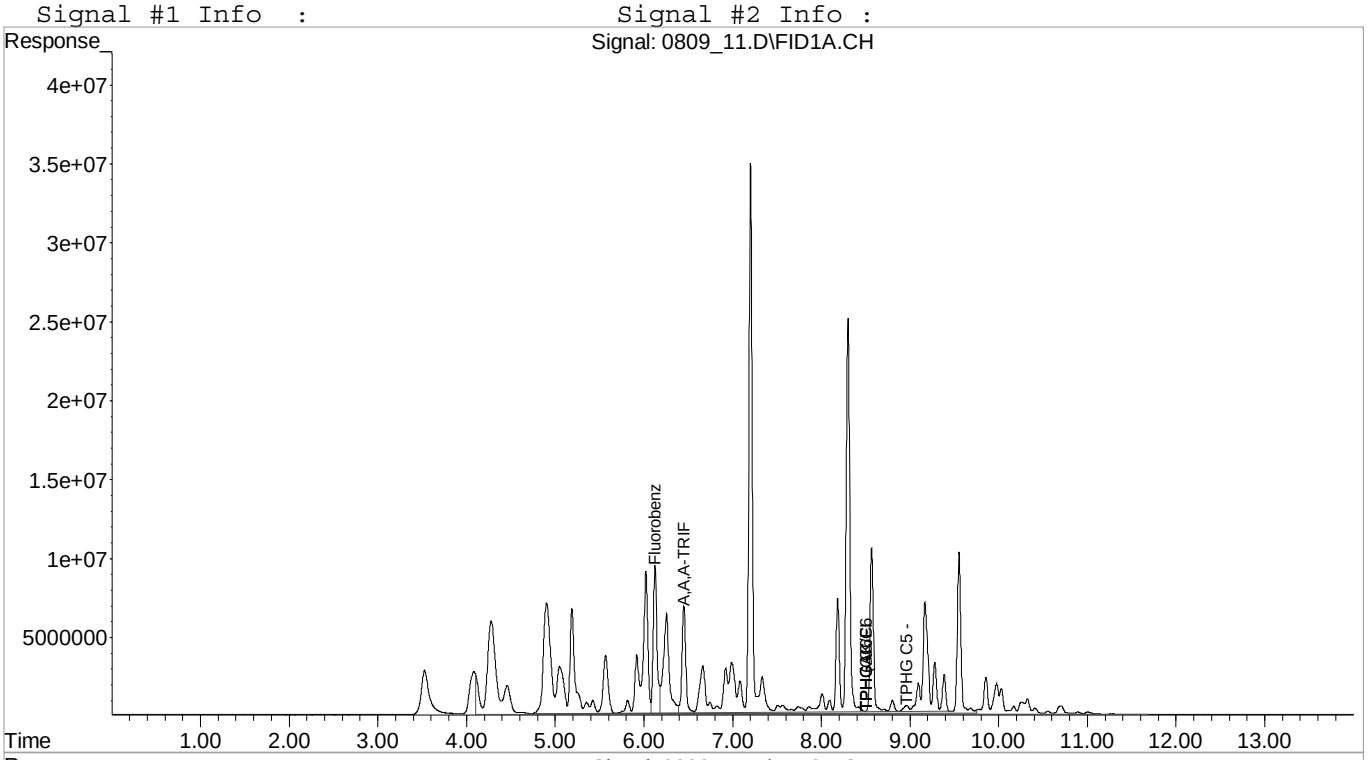
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	280421578	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1115167773	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207255010	196.8720071	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.44%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	599969730	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	103932	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6594455652	5.8414297	ppm
4) H,M TPHG C6 - C12	8.50	5909096844	5.4307018	ppm
5) H,M TPHGAK C6 to C10	8.50	4984973596	5.7227528	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5442743965	5.7200127	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	431198480	NoCal	ppb
12) T,M benzene	6.02	757833402	NoCal	ppb
13) T,M toluene	7.19	2869393011	NoCal	ppb
14) T,M ethylbenzene	8.18	832940116	NoCal	ppb
15) T,M m&p-xylene	8.29	2617035917	NoCal	ppb
16) T,M o-xylene	8.57	1216805432	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	478596269	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1317254901	NoCal	ppb
19) T,M Naphthalene	11.48	143611	NoCal	ppb

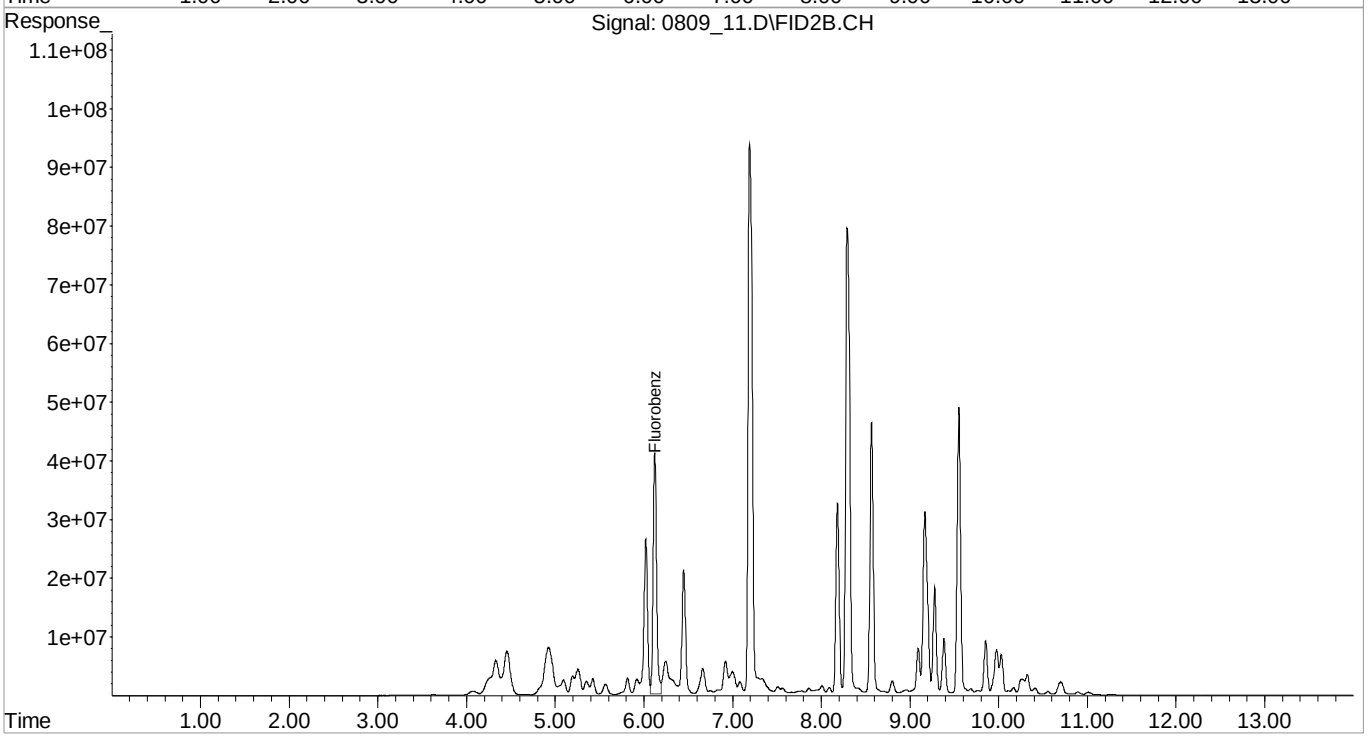
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID2B.CH
Acq On : 8-10-2014 01:40:48 AM Operator: 621
Sample : SSCV GRO 5.5g ppm 14G07651 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:45 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID1A.CH  Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID2B.CH
Acq On    : 09 Aug 2014  10:53 pm                    Operator: 621
Sample    : STD GRO .055 ppm 14G07650                Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:12 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

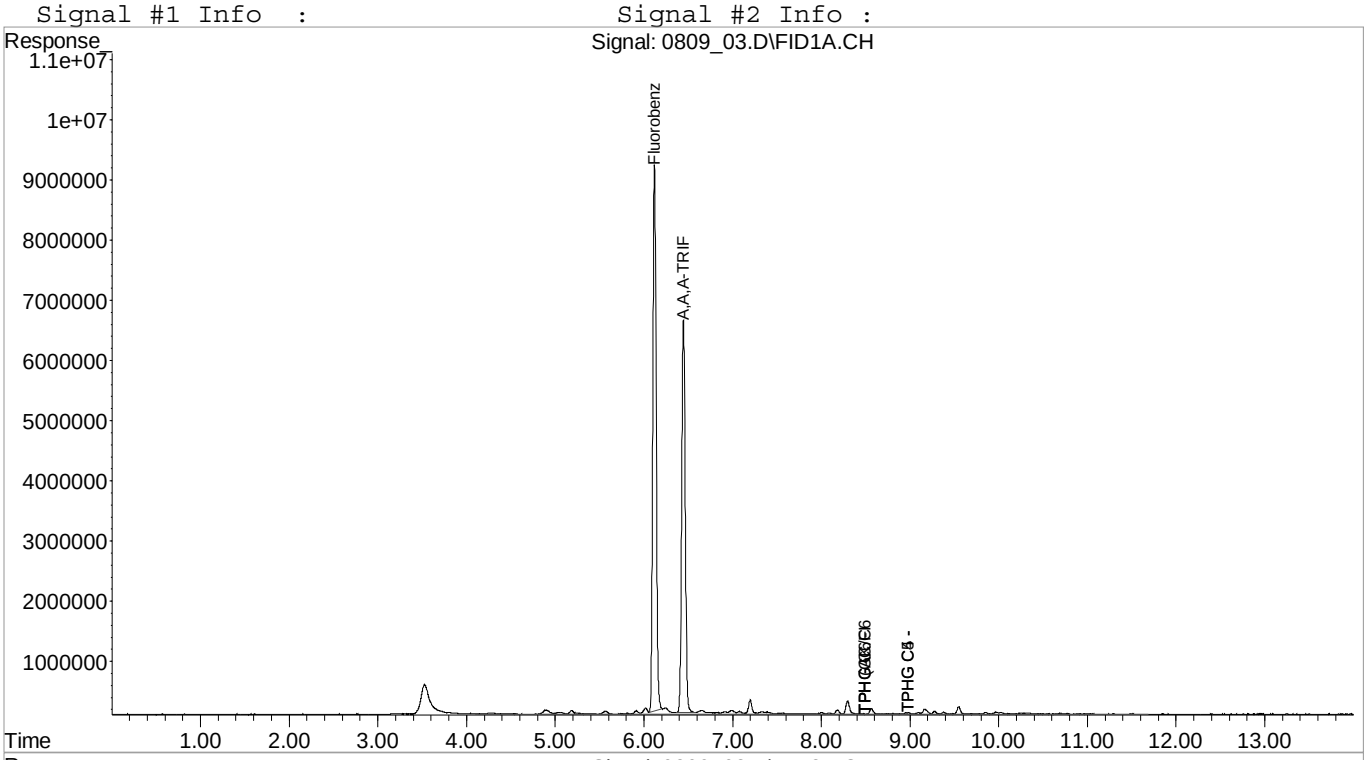
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	234322129	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	178932820	217.0441350	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.52%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	10255	0.1857925	ppm
3) H,M TPHG C5 - C12	8.96	113171901	0.1231745	ppm
4) H,M TPHG C6 - C12	8.50	108536177	0.1226809	ppm
5) H,M TPHGAK C6 to C10	8.50	86352501	0.1228076	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	91153067	0.1192024	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

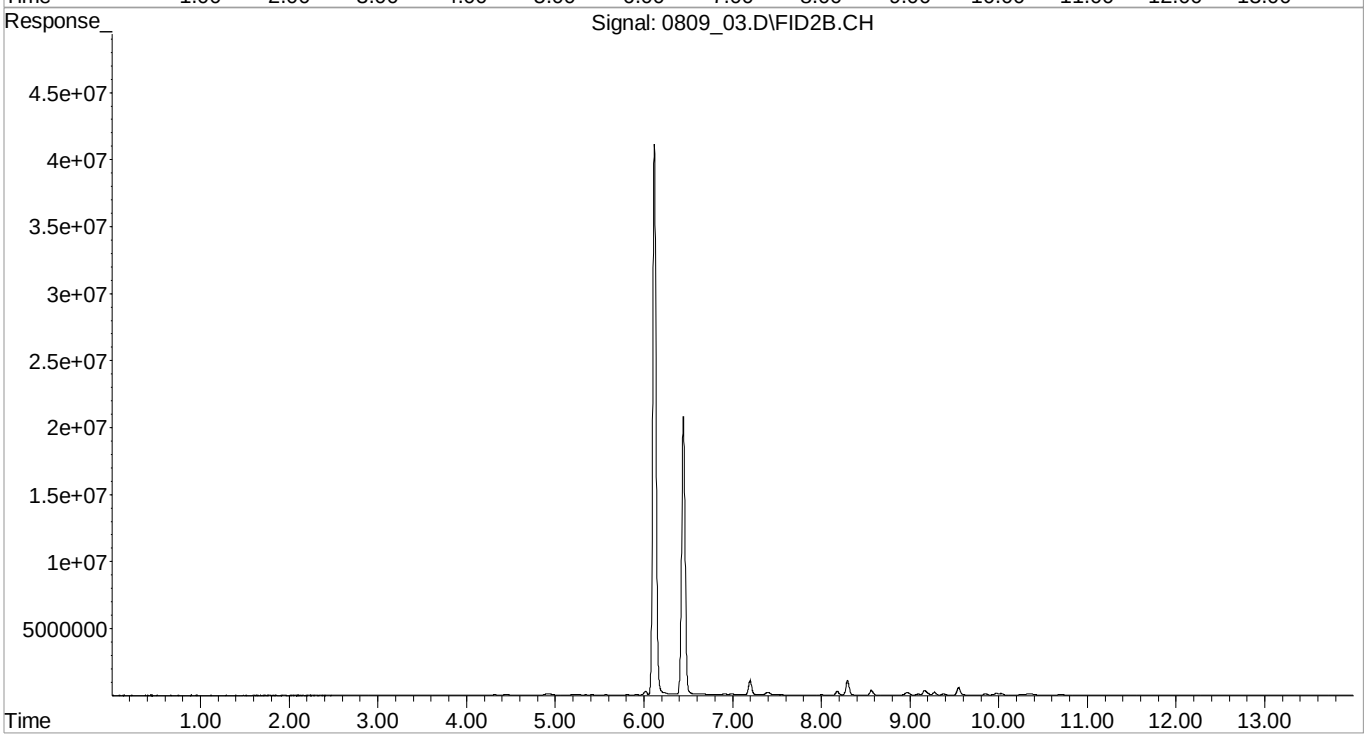
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID2B.CH
Acq On : 09 Aug 2014 10:53 pm Operator: 621
Sample : STD GRO .055 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID2B.CH
Acq On : 09 Aug 2014 11:14 pm Operator: 621
Sample : STD GRO .11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:14 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

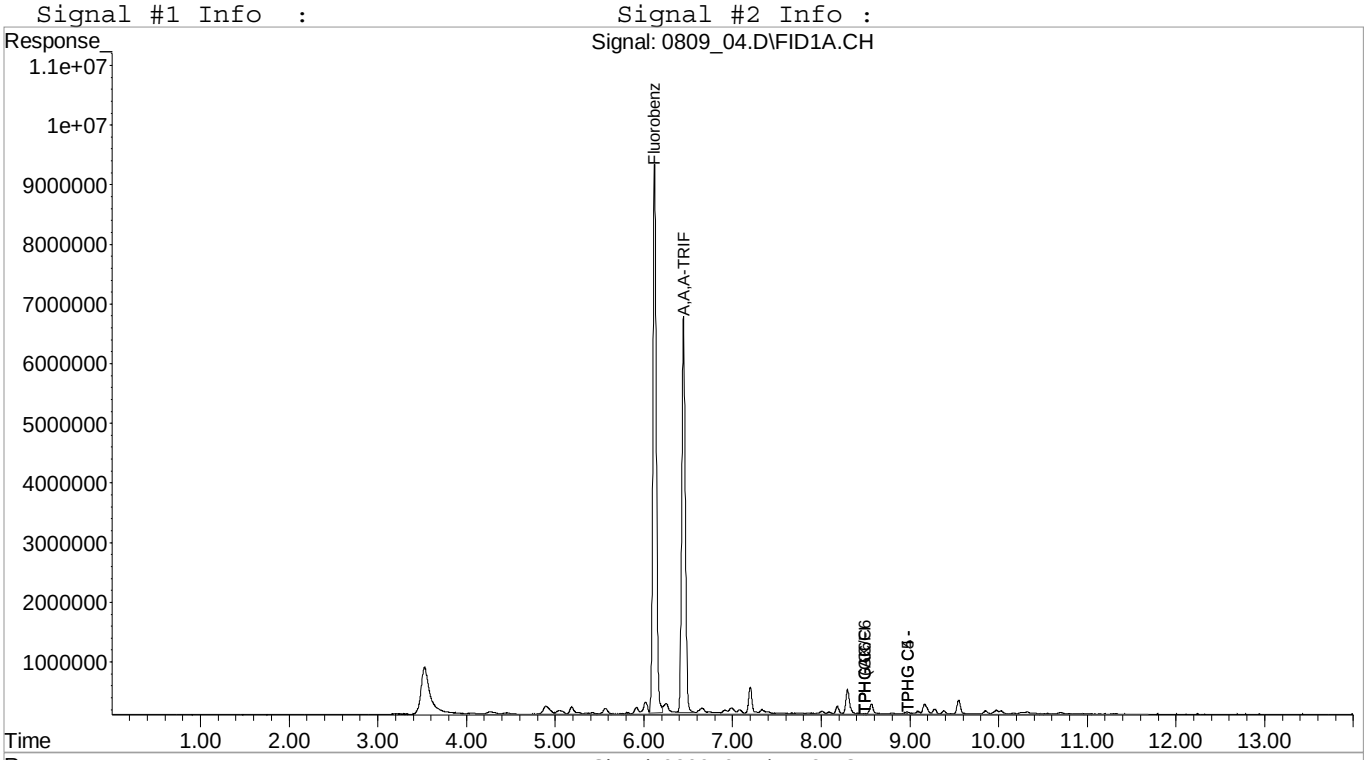
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	240284165	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	181552000	214.7569557	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 107.38%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	6827	0.1206260	ppm	
3) H,M TPHG C5 - C12	8.96	181780058	0.1929374	ppm	
4) H,M TPHG C6 - C12	8.50	172020893	0.1896146	ppm	
5) H,M TPHGAK C6 to C10	8.50	131071375	0.1817801	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	141993391	0.1810798	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

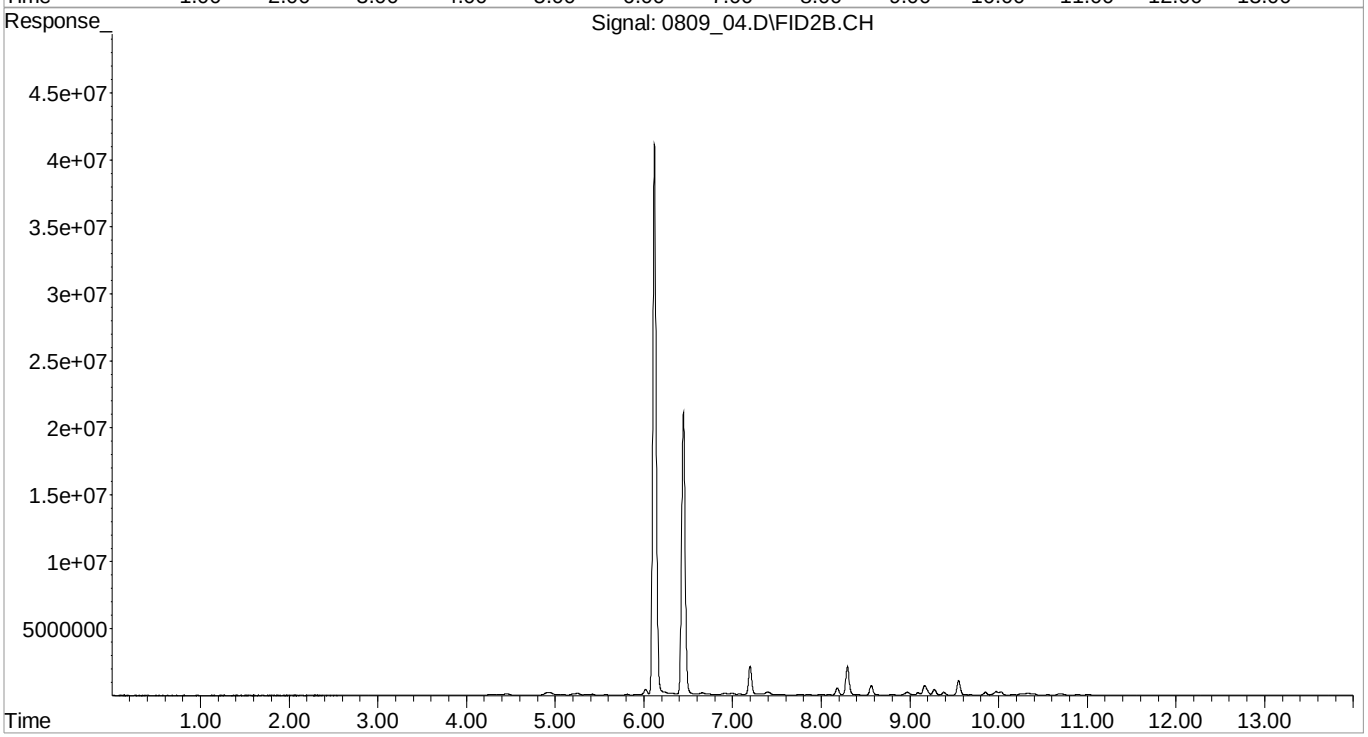
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID2B.CH
Acq On : 09 Aug 2014 11:14 pm Operator: 621
Sample : STD GRO .11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID2B.CH
Acq On : 09 Aug 2014 11:35 pm Operator: 621
Sample : STD GRO .55 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:17 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

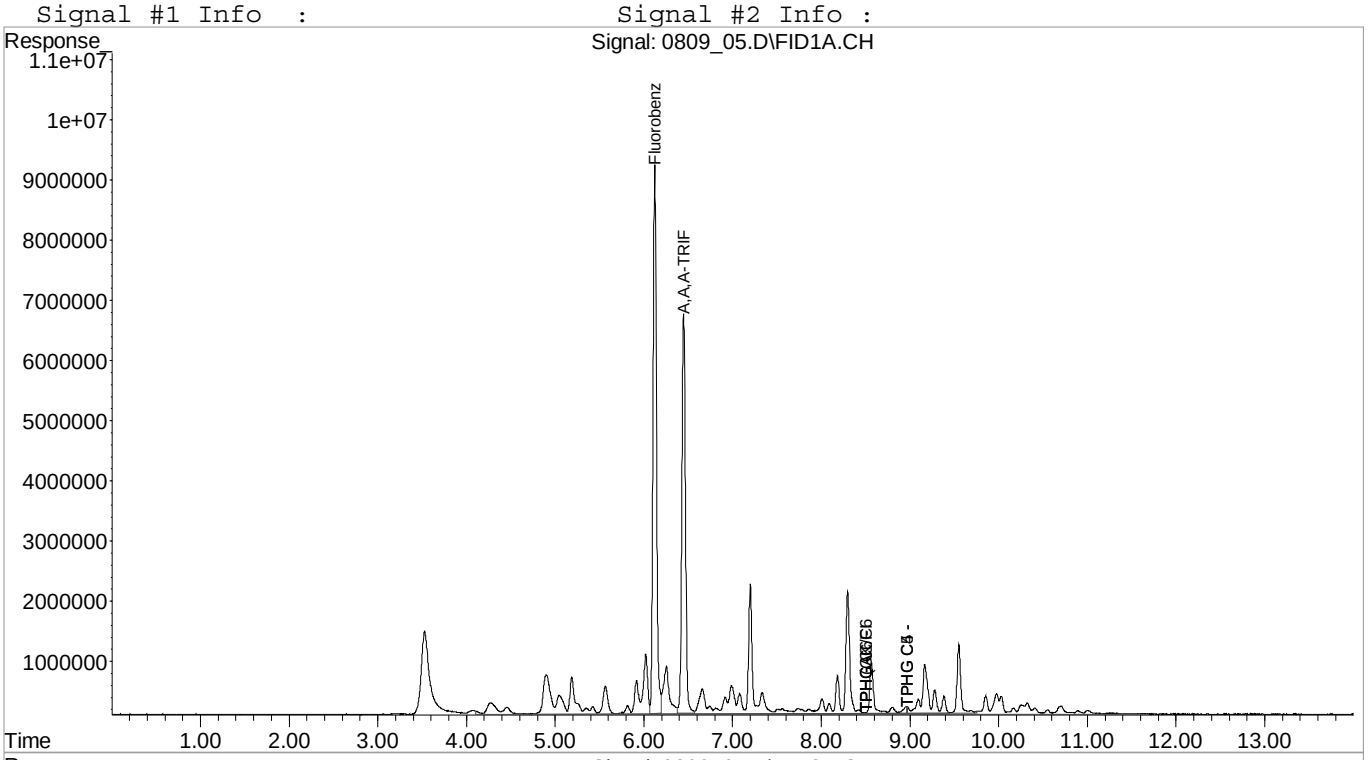
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	243679685	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	185581024	216.4639587	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.23%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	51880	0.9038655	ppm	
3) H,M TPHG C5 - C12	8.96	717313773	0.7507325	ppm	
4) H,M TPHG C6 - C12	8.50	689086400	0.7489798	ppm	
5) H,M TPHGAK C6 to C10	8.50	540260369	0.7388351	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	576935853	0.7254964	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

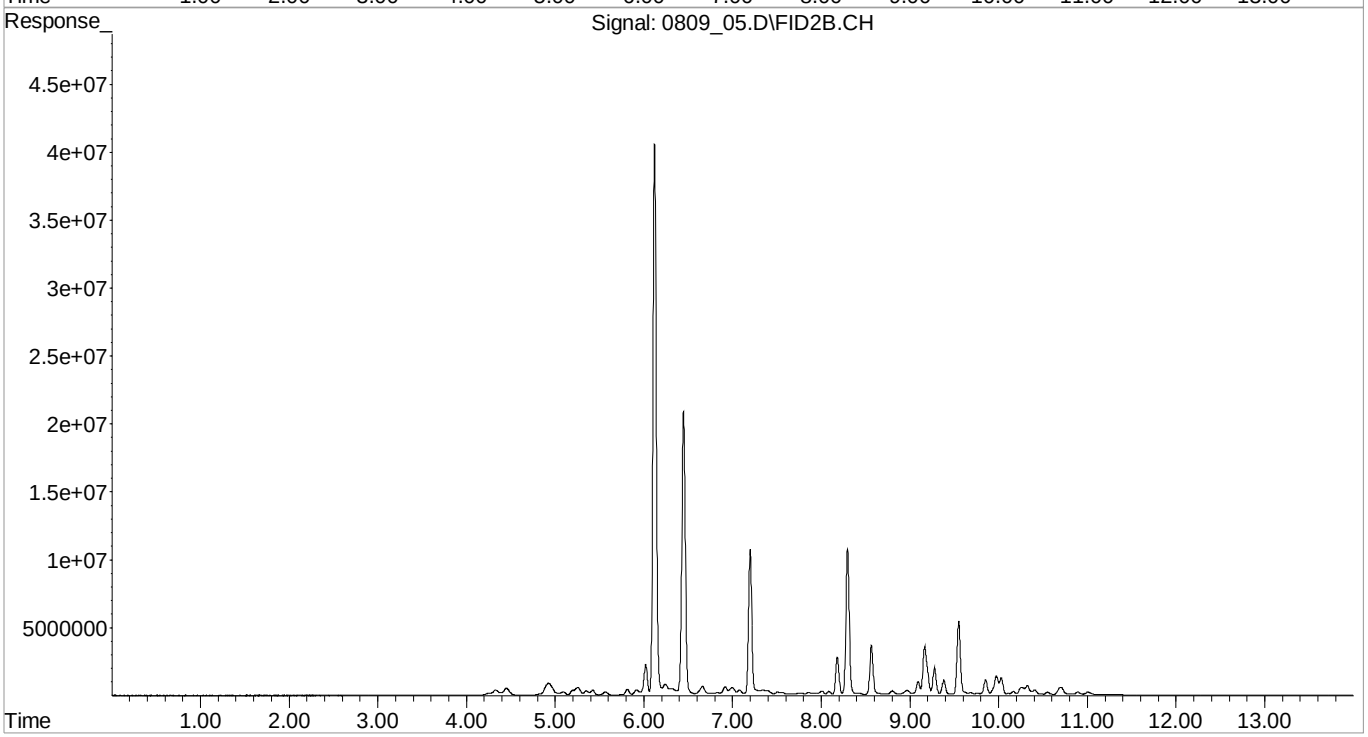
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID2B.CH
Acq On : 09 Aug 2014 11:35 pm Operator: 621
Sample : STD GRO .55 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID2B.CH
Acq On : 09 Aug 2014 11:55 pm Operator: 621
Sample : STD GRO 1.1 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:19 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

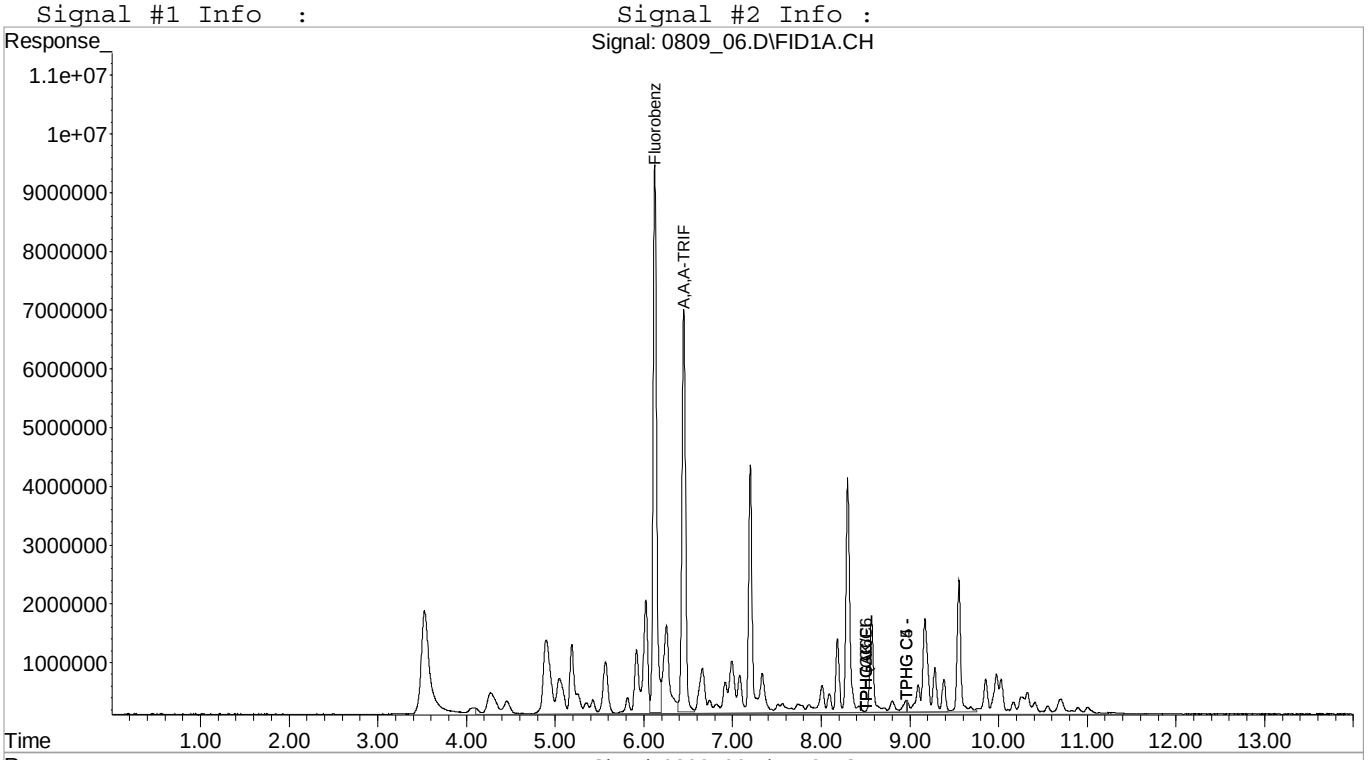
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	254408496	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	193255467	215.9093901	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 107.95%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	1913	0.0319237	ppm
3) H,M TPHG C5 - C12	8.96	1371375356	1.3747385	ppm
4) H,M TPHG C6 - C12	8.50	1309339442	1.3631273	ppm
5) H,M TPHGAK C6 to C10	8.50	1032490316	1.3524403	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	1105235256	1.3312210	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

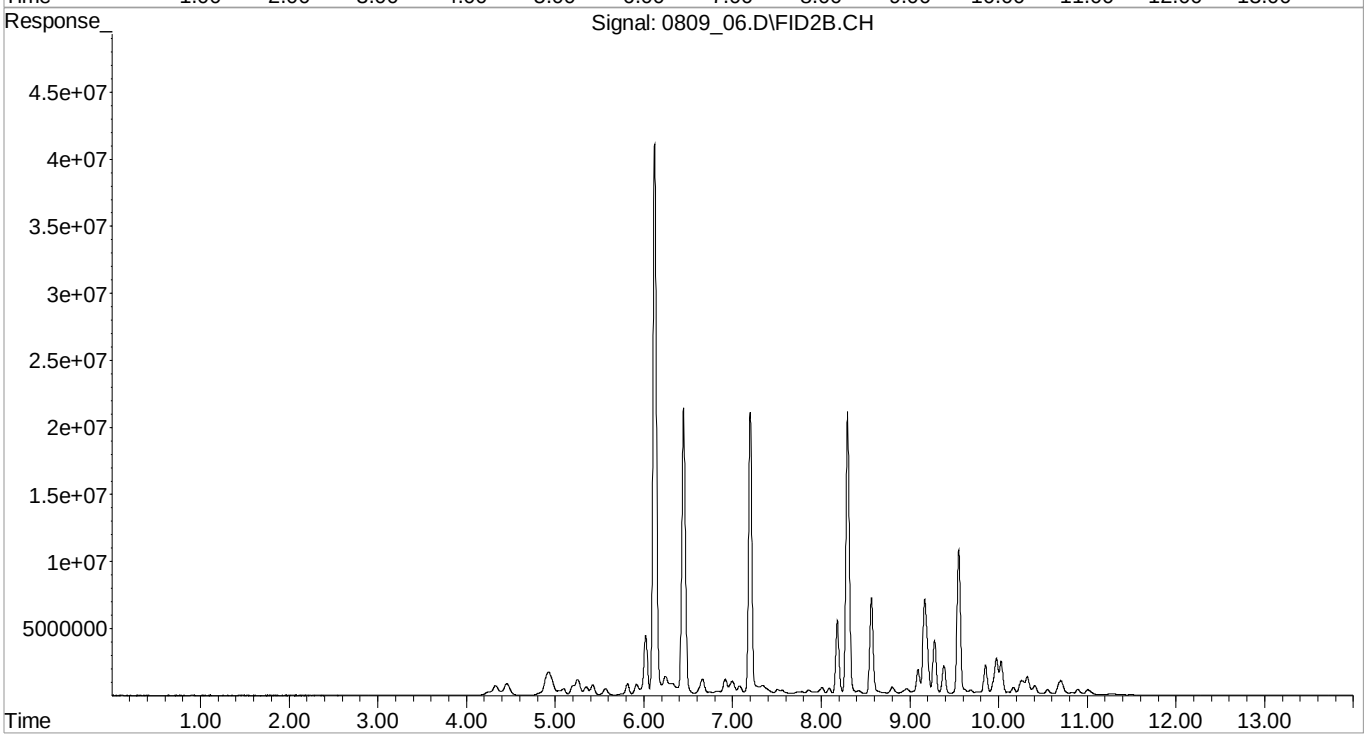
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID2B.CH
Acq On : 09 Aug 2014 11:55 pm Operator: 621
Sample : STD GRO 1.1 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID2B.CH
Acq On : 10 Aug 2014 12:16 am Operator: 621
Sample : STD GRO 2.75 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:22 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

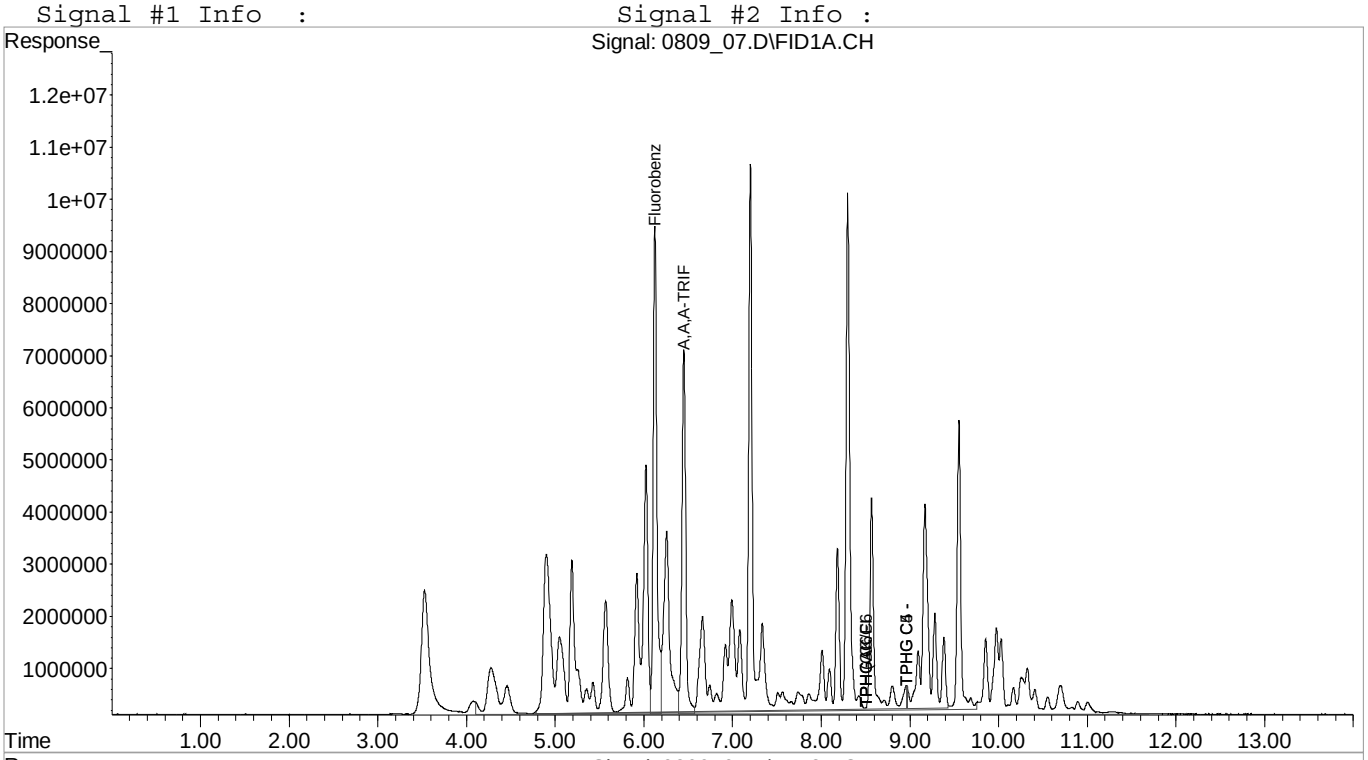
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	271919527	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207673249	217.0758524	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.54%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	30458	0.4755398	ppm
3) H,M TPHG C5 - C12	8.96	3286899164	3.0827717	ppm
4) H,M TPHG C6 - C12	8.50	3155240040	3.0733200	ppm
5) H,M TPHGAK C6 to C10	8.50	2483616948	3.0437428	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	2685233088	3.0259980	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

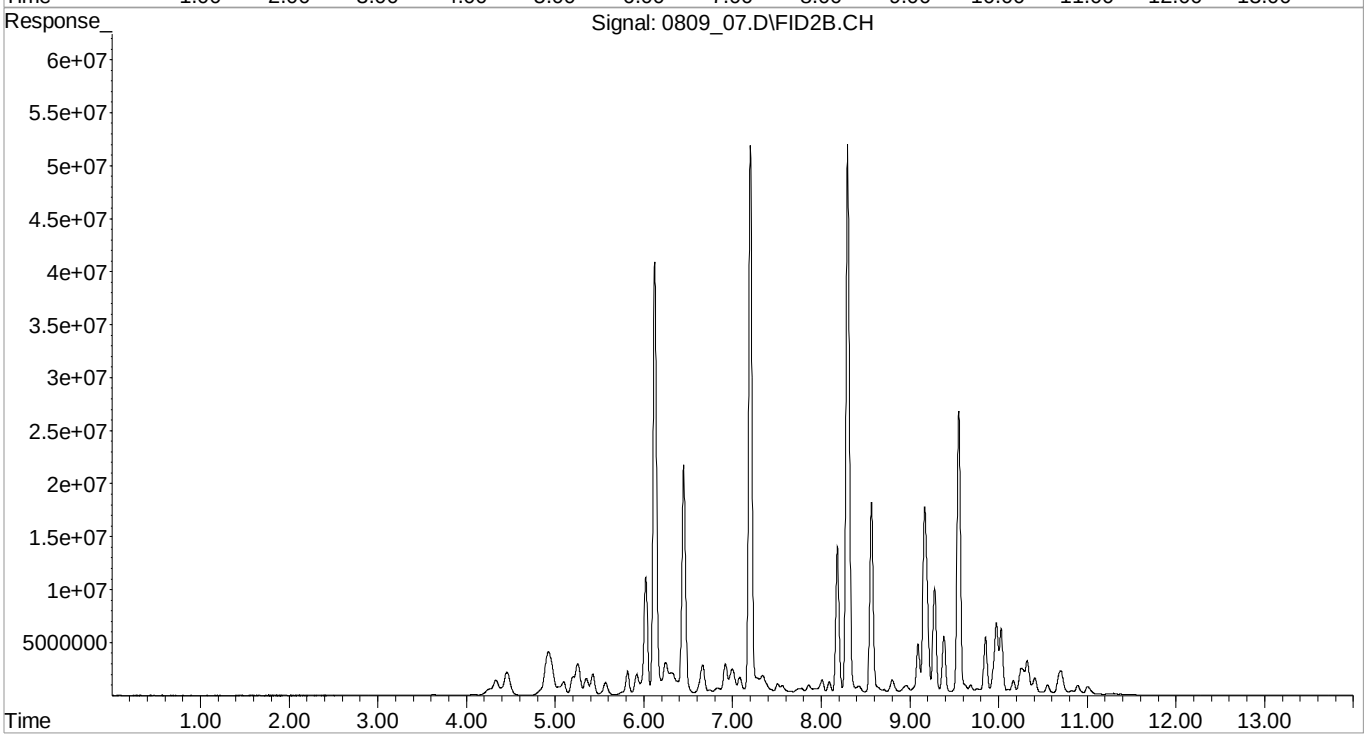
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID2B.CH
Acq On : 10 Aug 2014 12:16 am Operator: 621
Sample : STD GRO 2.75 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID2B.CH
Acq On : 10 Aug 2014 12:37 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:24 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

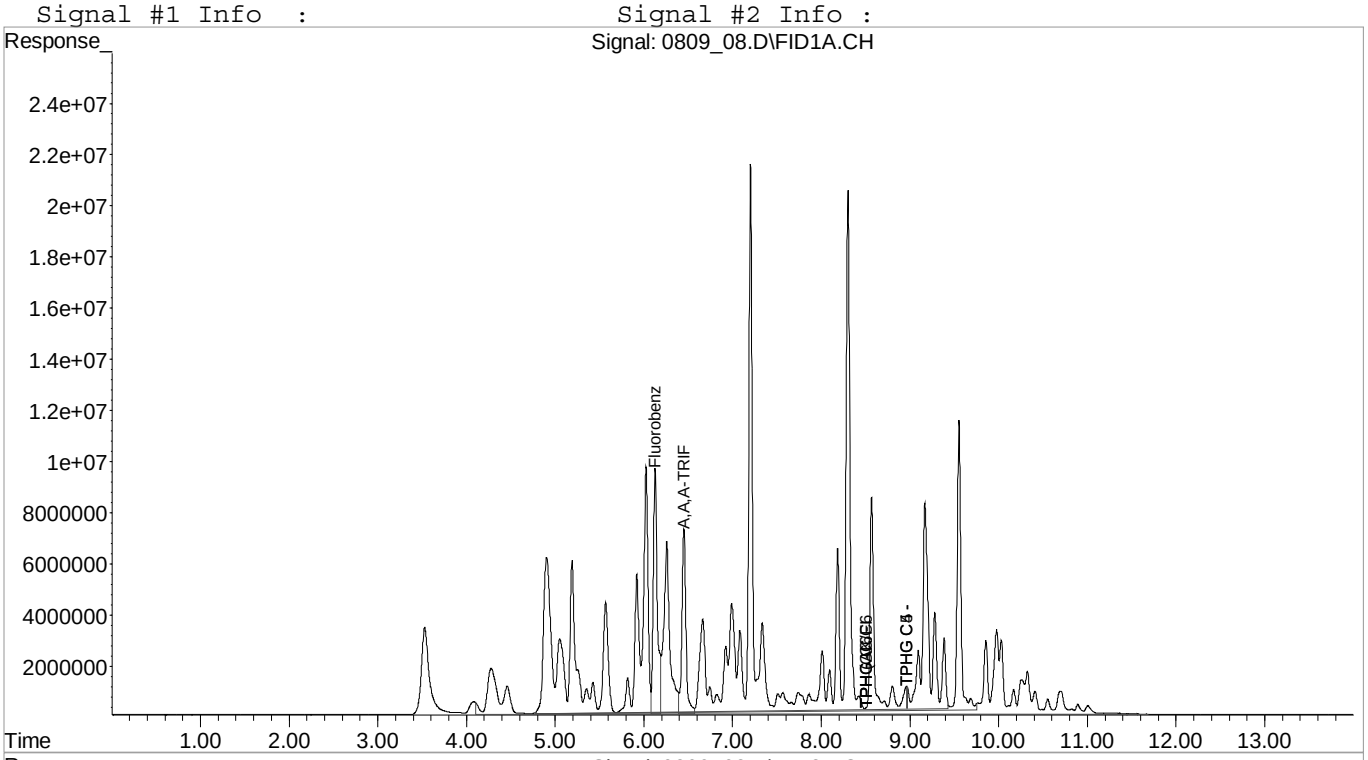
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	305641610	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	225818969	210.0000000	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 105.00%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	395963	5.5000000	ppm	
3) H,M TPHG C5 - C12	8.96	6591432236	5.5000000	ppm	
4) H,M TPHG C6 - C12	8.50	6346867019	5.5000000	ppm	
5) H,M TPHGAK C6 to C10	8.50	5044422289	5.5000000	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	5485902937	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

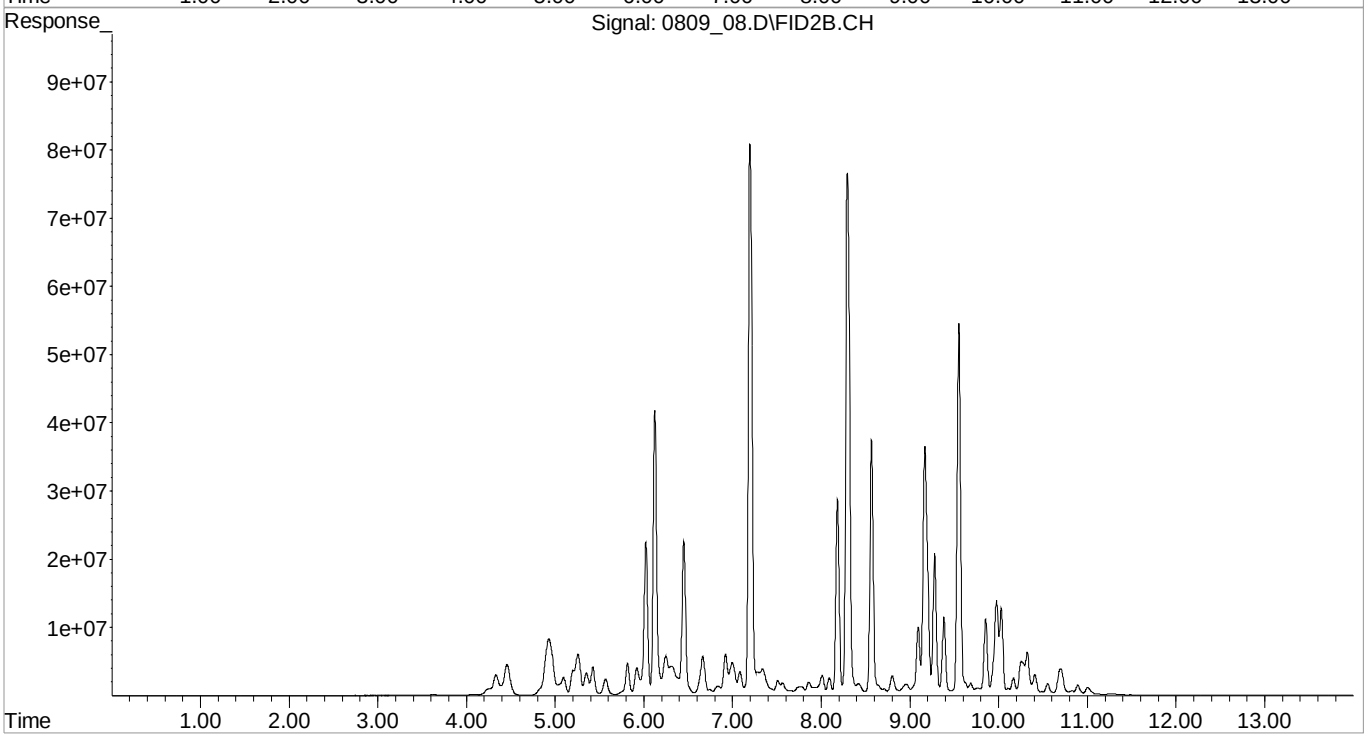
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID2B.CH
Acq On : 10 Aug 2014 12:37 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:27 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

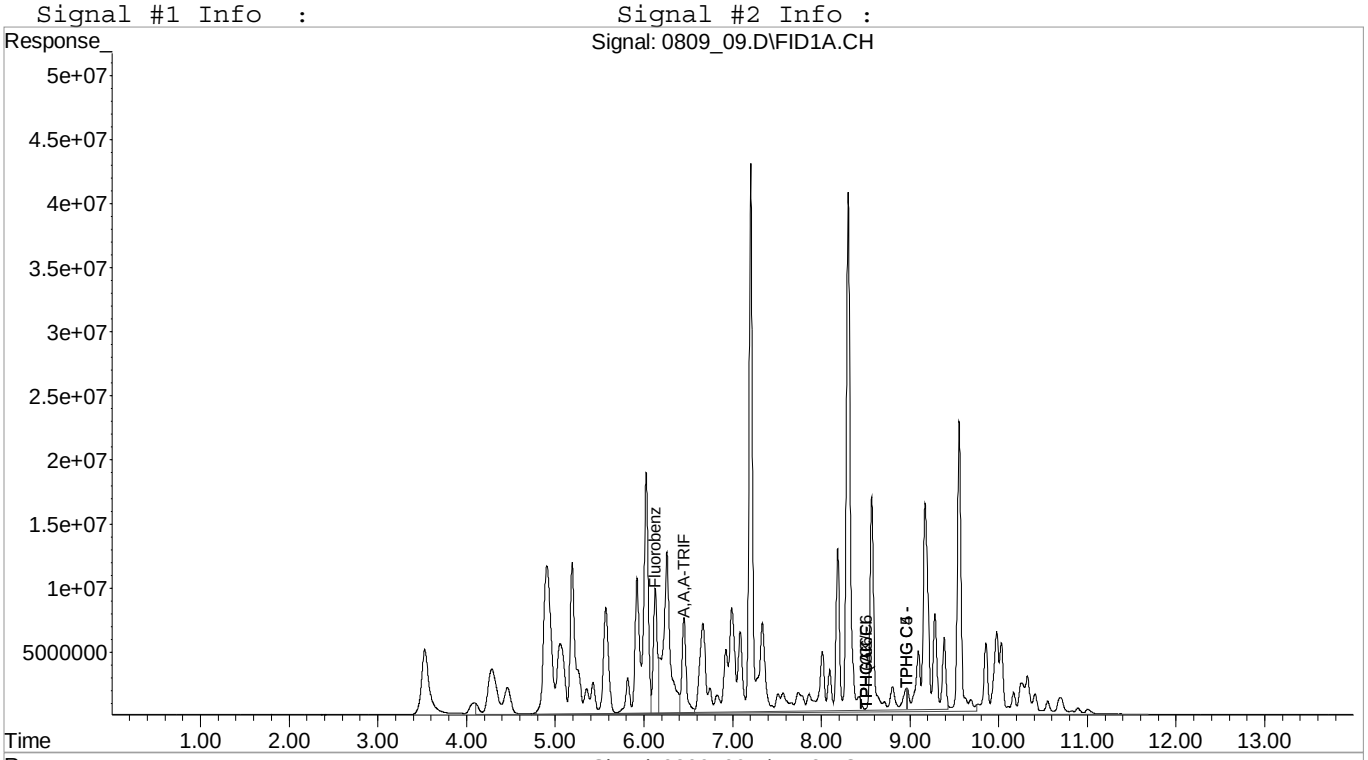
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.13	293554262	200.0000000	ppb	m
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	255754816	247.6320110	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 123.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	494161	7.1466121	ppm	
3) H,M TPHG C5 - C12	8.96	12857568528	11.1703256	ppm	
4) H,M TPHG C6 - C12	8.50	12369250024	11.1601684	ppm	
5) H,M TPHGAK C6 to C10	8.50	9969518391	11.3174744	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	10925236486	11.4043229	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

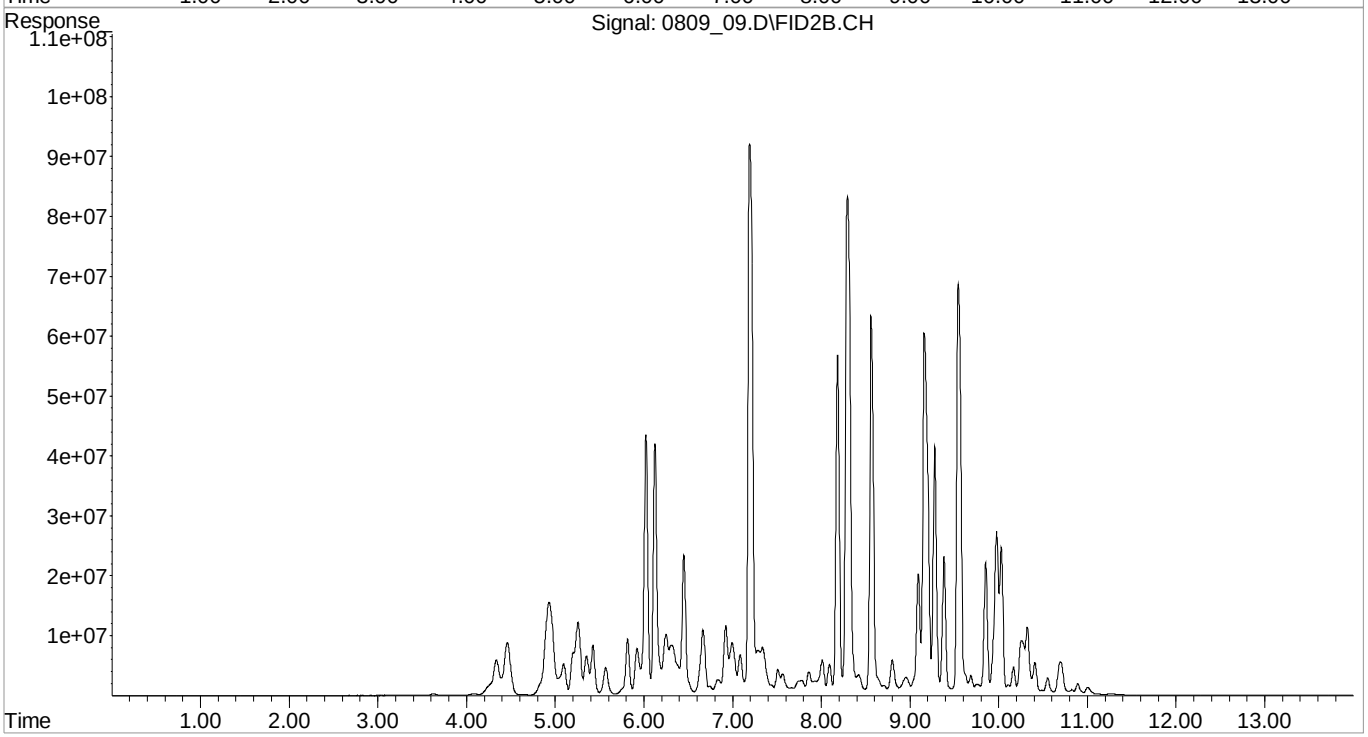
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:44 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

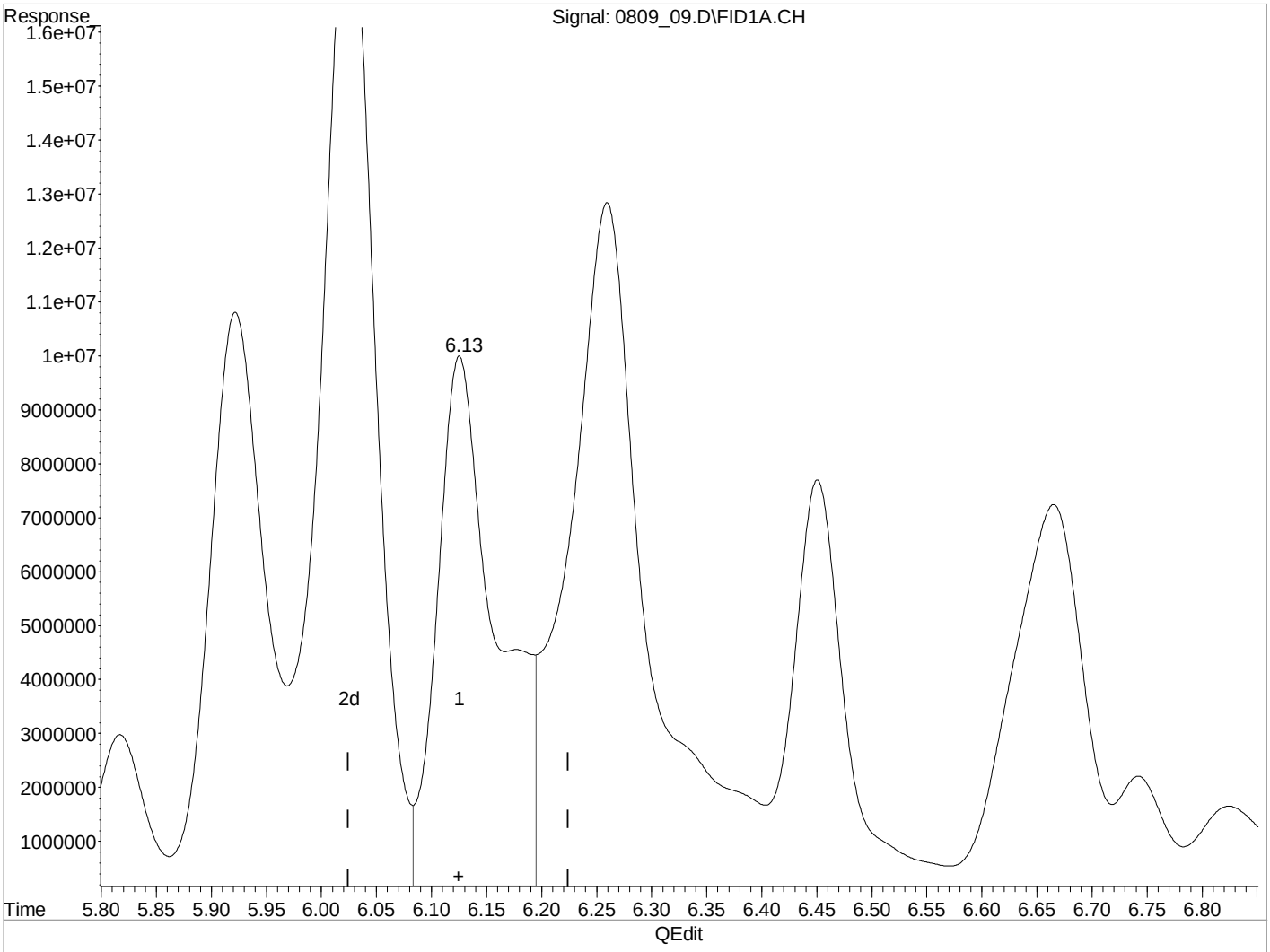




Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014 Quant Results File: BG12H09N.RES

Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:42:37 2014
Response via : Multiple Level Calibration



(1) Fluorobenzene #1 (I)

6.13min 200.0000000 ppb

response 370717583

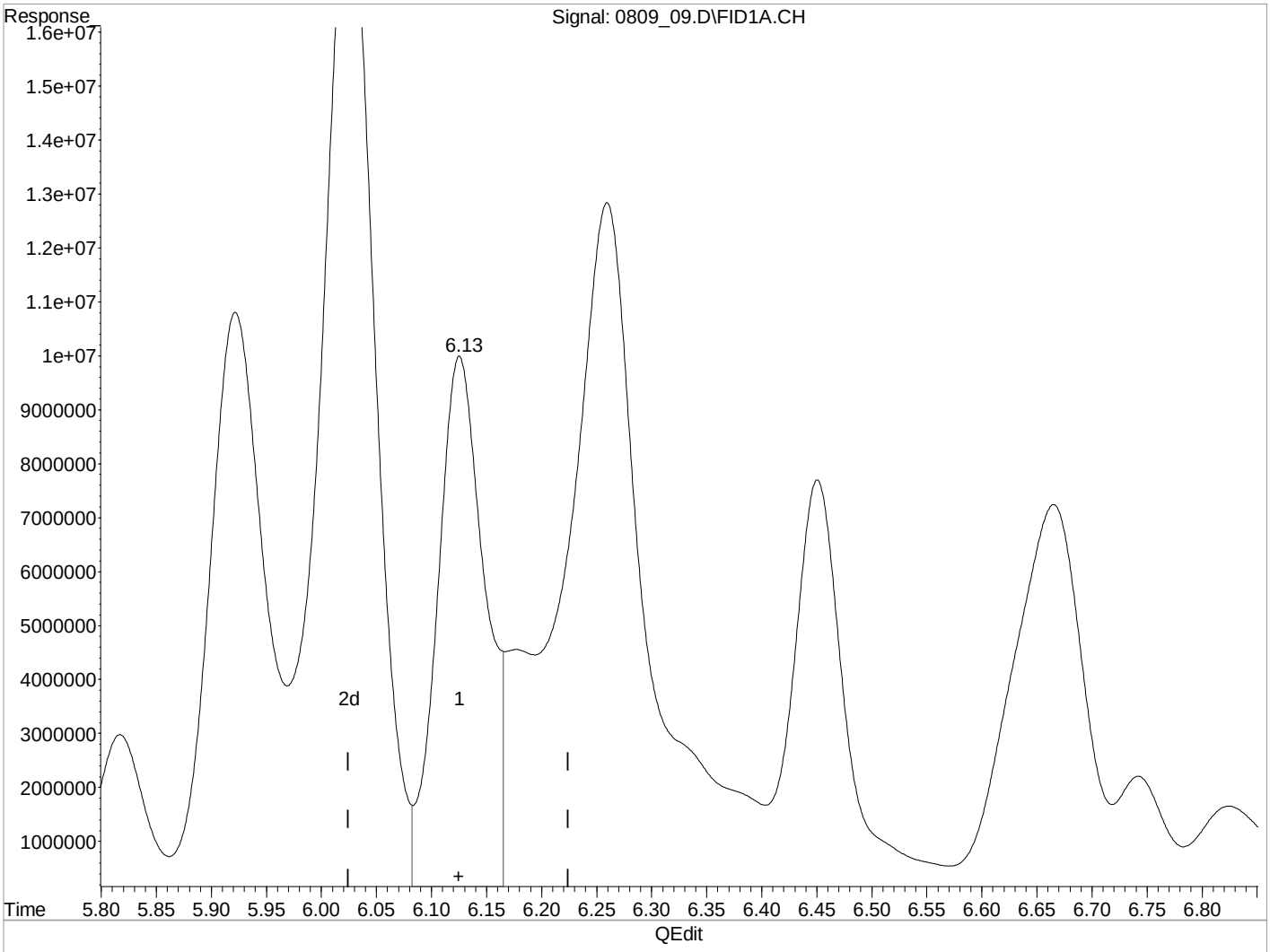
(+) = Expected Retention Time

0809_09.D BG12H09N.M Mon Aug 11 12:44:06 2014

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014 Quant Results File: BG12H09N.RES

Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:42:37 2014
Response via : Multiple Level Calibration



(1) Fluorobenzene #1 (I)

6.13min 200.0000000 ppb m

response 293554262

(+) = Expected Retention Time

0809_09.D BG12H09N.M Mon Aug 11 12:44:14 2014

Instrument: VOCGC12
Method: BG12H21N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0821_37.D	0.5	8/21/2014 1:05:00 PM
0821_38.D	1	8/21/2014 1:26:00 PM
0821_39.D	5	8/21/2014 1:47:00 PM
0821_40.D	10	8/21/2014 2:08:00 PM
0821_41.D	25	8/21/2014 2:29:00 PM
0821_42.D	50	8/21/2014 2:50:00 PM
0821_43.D	100	8/21/2014 3:11:00 PM
0821_44.D	150	8/21/2014 3:32:00 PM
0821_45.D	200	8/21/2014 3:54:00 PM
0821_46.D	250	8/21/2014 4:15:00 PM
0809_03.D	.05G	8/9/2014 10:53:00 PM
0809_04.D	.11G	8/9/2014 11:14:00 PM
0809_05.D	.55G	8/9/2014 11:35:00 PM
0809_06.D	1.1G	8/9/2014 11:55:00 PM
0809_07.D	2.7G	8/10/2014 12:16:00 AM
0809_08.D	5.5G	8/10/2014 12:37:00 AM
0809_09.D	11G	8/10/2014 12:58:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX

Released By : John A. Heath Jr.
Date Released : 8/22/2014 10:47:29 AM

Run ID : 080914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0809_01	INSTBLK	BG12H09N						1	1	08/09/14 2211	"soil SURIS14F10114"
2	0809_03	STD GRO .055 PPM 14G07650	BG12H09N						1	1	08/09/14 2253	"soil SURIS14F10114"
3	0809_04	STD GRO .11 PPM 14G07650	BG12H09N						1	1	08/09/14 2314	"soil SURIS14F10114"
4	0809_05	STD GRO .55 PPM 14G07650	BG12H09N						1	1	08/09/14 2335	"soil SURIS14F10114"
5	0809_06	STD GRO 1.1 PPM 14G07650	BG12H09N						1	1	08/09/14 2355	"soil SURIS14F10114"
6	0809_07	STD GRO 2.75 PPM 14G07650	BG12H09N						1	1	08/10/14 0016	"soil SURIS14F10114"
7	0809_08	MSTD GRO 5.5G PPM 14G07650	BG12H09N						1	1	08/10/14 0037	"soil SURIS14F10114"
8	0809_09	STD GRO 11 PPM 14G07650	BG12H09N						1	1	08/10/14 0058	"soil SURIS14F10114"
9	0809_11	SSCV GRO 5.5G PPM 14G07651	BG12H09N						1	1	08/10/14 0140	"soil SURIS14F10114"
10	0821_01	INSTBLK	BG12H09N						1	1	08/20/14 2301	"soil SURIS14F10114"
11	0821_08	INSTBLK	BG12H09N						1	1	08/21/14 0153	"soil SURIS14F10114"
12	0821_20	INSTBLK	BG12H09N						1	1	08/21/14 0606	"soil SURIS14F10114"
13	0821_23	INSTBLK	BG12H09N						1	1	08/21/14 0759	"soil SURIS14F10114"
14	0821_37	STD BTEX .5 PPB 14G09861	BG12H21N						1	1	08/21/14 1305	"soil SURIS14F10114"
15	0821_38	STD BTEX 1 PPB 14G09861	BG12H21N						1	1	08/21/14 1326	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX

Released By : John A. Heath Jr.
Date Released : 8/22/2014 10:47:29 AM

Run ID : 080914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	0821_39	STD BTEX 5 PPB 14G09861	BG12H21N						1	1	08/21/14 1347	"soil SURIS14F10114"
17	0821_40	STD BTEX 10 PPB 14G09861	BG12H21N						1	1	08/21/14 1408	"soil SURIS14F10114"
18	0821_41	STD BTEX 25 PPB 14G09861	BG12H21N						1	1	08/21/14 1429	"soil SURIS14F10114"
19	0821_42	MSTD BTEX 50 PPB 14G09861	BG12H21N						1	1	08/21/14 1450	"soil SURIS14F10114"
20	0821_43	STD BTEX 100 PPB 14G09861	BG12H21N						1	1	08/21/14 1511	"soil SURIS14F10114"
21	0821_44	STD BTEX 150 PPB 14G09861	BG12H21N						1	1	08/21/14 1532	"soil SURIS14F10114"
22	0821_45	STD BTEX 200 PPB 14G09861	BG12H21N						1	1	08/21/14 1554	"soil SURIS14F10114"
23	0821_46	STD BTEX 250 PPB 14G09861	BG12H21N						1	1	08/21/14 1615	"soil SURIS14F10114"
24	0821_47	INSTBLK	BG12H09N						1	1	08/21/14 1636	"soil SURIS14F10114"
25	0821_48	SSCV BTEX 50 PPB 14G09864	BG12H21N						1	1	08/21/14 1657	"soil SURIS14F10114"
26	0821_58	INSTBLK	BG12H09N						1	1	08/22/14 0037	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: 8015-8021	Released By	: John A. Heath Jr.
Method	: BG12H21N	Review Protocol	: SW846	Released On	: 8/22/2014 10:47:30 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H21N -- ICal Updated Time: Fri Aug 22 10:39:59 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.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											1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1											1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1											1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1											1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.532	0.532	0.532	0.528	0.519	0.508	0.519	0.506	0.497								0.520295	2.45	0.024	1
Methyl Tert-Butyl Ether	2	0.479	0.659	0.559	0.584	0.488	0.463	0.467	0.435	0.431	0.416								0.498201	15.68	0.157	1
benzene	2	1.666	2.293	1.679	1.657	1.6	1.657	1.684	1.665	1.612	1.524								1.70386	12.48	0.125	1
toluene	2	1.204	1.68	1.465	1.553	1.501	1.553	1.574	1.551	1.485	1.399								1.496426	8.5	0.085	1
ethylbenzene	2	1.022	1.438	1.265	1.35	1.309	1.353	1.372	1.353	1.306	1.276								1.304385	8.53	0.085	1
m&p-xylene	2	1.227	1.72	1.503	1.597	1.532	1.57	1.577	1.368										1.511878	10.02	0.1	1
o-xylene	2	1.06	1.462	1.277	1.362	1.316	1.369	1.389	1.366	1.322	1.244								1.31686	8.25	0.082	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

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: AK101	Released By	: John A. Heath Jr.
Method	: BG12H21N	Review Protocol	: AK	Released On	: 8/22/2014 10:46:27 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H21N -- ICal Updated Time: Fri Aug 22 10:39:59 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.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											1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1											1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1											1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1											1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.532	0.532	0.532	0.528	0.519	0.508	0.519	0.506	0.497								0.520295	2.45	0.024	1
Methyl Tert-Butyl Ether	2	0.479	0.659	0.559	0.584	0.488	0.463	0.467	0.435	0.431	0.416								0.498201	15.68	0.157	1
benzene	2	1.666	2.293	1.679	1.657	1.6	1.657	1.684	1.665	1.612	1.524								1.70386	12.48	0.125	1
toluene	2	1.204	1.68	1.465	1.553	1.501	1.553	1.574	1.551	1.485	1.399								1.496426	8.5	0.085	1
ethylbenzene	2	1.022	1.438	1.265	1.35	1.309	1.353	1.372	1.353	1.306	1.276								1.304385	8.53	0.085	1
m&p-xylene	2	1.227	1.72	1.503	1.597	1.532	1.57	1.577	1.368										1.511878	10.02	0.1	1
o-xylene	2	1.06	1.462	1.277	1.362	1.316	1.369	1.389	1.366	1.322	1.244								1.31686	8.25	0.082	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

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: GROAZ	Released By	: John A. Heath Jr.
Method	: BG12H21N	Review Protocol	: AZ	Released On	: 8/22/2014 10:46:54 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H21N -- ICal Updated Time: Fri Aug 22 10:39:59 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.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											1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1											1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1											1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1											1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.532	0.532	0.532	0.528	0.519	0.508	0.519	0.506	0.497								0.520295	2.45	0.024	1
Methyl Tert-Butyl Ether	2	0.479	0.659	0.559	0.584	0.488	0.463	0.467	0.435	0.431	0.416								0.498201	15.68	0.157	1
benzene	2	1.666	2.293	1.679	1.657	1.6	1.657	1.684	1.665	1.612	1.524								1.70386	12.48	0.125	1
toluene	2	1.204	1.68	1.465	1.553	1.501	1.553	1.574	1.551	1.485	1.399								1.496426	8.5	0.085	1
ethylbenzene	2	1.022	1.438	1.265	1.35	1.309	1.353	1.372	1.353	1.306	1.276								1.304385	8.53	0.085	1
m&p-xylene	2	1.227	1.72	1.503	1.597	1.532	1.57	1.577	1.368										1.511878	10.02	0.1	1
o-xylene	2	1.06	1.462	1.277	1.362	1.316	1.369	1.389	1.366	1.322	1.244								1.31686	8.25	0.082	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

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: 8015D	Released By	: John A. Heath Jr.
Method	: BG12H21N	Review Protocol	: IN	Released On	: 8/22/2014 10:47:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H21N -- ICal Updated Time: Fri Aug 22 10:39:59 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.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											1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1											1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1											1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1											1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.532	0.532	0.532	0.528	0.519	0.508	0.519	0.506	0.497								0.520295	2.45	0.024	1
Methyl Tert-Butyl Ether	2	0.479	0.659	0.559	0.584	0.488	0.463	0.467	0.435	0.431	0.416								0.498201	15.68	0.157	1
benzene	2	1.666	2.293	1.679	1.657	1.6	1.657	1.684	1.665	1.612	1.524								1.70386	12.48	0.125	1
toluene	2	1.204	1.68	1.465	1.553	1.501	1.553	1.574	1.551	1.485	1.399								1.496426	8.5	0.085	1
ethylbenzene	2	1.022	1.438	1.265	1.35	1.309	1.353	1.372	1.353	1.306	1.276								1.304385	8.53	0.085	1
m&p-xylene	2	1.227	1.72	1.503	1.597	1.532	1.57	1.577	1.368										1.511878	10.02	0.1	1
o-xylene	2	1.06	1.462	1.277	1.362	1.316	1.369	1.389	1.366	1.322	1.244								1.31686	8.25	0.082	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

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Mint Miner 2.03 (80118) Directory Scan: z:\082114

22 Aug 2014 11:40

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_01.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_01.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_02.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_02.D\FID1A.CH					
0	Scanned		621	VOCGC12	RT (soil SURIS14F10114)
Scan File Path: z:\082114\0821_03.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_03.D\FID1A.CH					
0	Scanned		621	VOCGC12	ICV (soil SURIS14F10114)
Scan File Path: z:\082114\0821_04.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_04.D\FID1A.CH					
0	Scanned		621	VOCGC12	LCS (soil SURIS14F10114)
Scan File Path: z:\082114\0821_05.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_05.D\FID1A.CH					
0	Scanned		621	VOCGC12	LCSD (soil SURIS14F10114)
Scan File Path: z:\082114\0821_06.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_06.D\FID1A.CH					
0	Scanned		621	VOCGC12	MS (soil SURIS14F10114)
Scan File Path: z:\082114\0821_07.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_07.D\FID1A.CH					
0	Scanned		621	VOCGC12	MSD (soil SURIS14F10114)
Scan File Path: z:\082114\0821_08.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_08.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_09.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_09.D\FID1A.CH					
0	Scanned		621	VOCGC12	BLANK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_10.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_10.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-01 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_11.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_11.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716430-01 25x WG738473 GRO (soil SURIS1

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_12.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_12.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716624-02 25x WG738473 GRO (soil SURIS1
Scan File Path: z:\082114\0821_13.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_13.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716709-01 25x WG738473 GROOH (soil SUR
Scan File Path: z:\082114\0821_14.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_14.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716709-02 100x WG738473 GROOH (soil SU
Scan File Path: z:\082114\0821_15.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_15.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716709-03 500x WG738473 GROOH (soil SU
Scan File Path: z:\082114\0821_16.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_16.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716709-04 500x WG738473 GROOH (soil SU
Scan File Path: z:\082114\0821_17.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_17.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-02 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_18.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_18.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-03 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_19.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_19.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-04 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_20.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_20.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_21.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_21.D\FID1A.CH					
0	Scanned		621	VOCGC12	RT (soil SURIS14F10114)
Scan File Path: z:\082114\0821_22.D					
Original Path: C:\MSDCHEM\1\DATA\082114\0821_22.D\FID1A.CH					
0	Scanned		621	VOCGC12	CCV (soil SURIS14F10114)

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_23.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_23.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_24.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_24.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-05 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_25.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_25.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716805-01 125x WG738473 GRO (soil SURIS
Scan File Path: z:\082114\0821_26.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_26.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716832-02 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_27.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_27.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716834-01 50x WG738473 GRO (soil SURIS1
Scan File Path: z:\082114\0821_28.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_28.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-01 5x WG738473 GROOH (soil SURI
Scan File Path: z:\082114\0821_29.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_29.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-02 25x WG738473 GROOH (soil SUR
Scan File Path: z:\082114\0821_30.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_30.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-05 5x WG738473 GROOH (soil SURI
Scan File Path: z:\082114\0821_31.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_31.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-06 5x WG738473 GROOH (soil SURI
Scan File Path: z:\082114\0821_32.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_32.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-09 5x WG738473 GROOH (soil SURI
Scan File Path: z:\082114\0821_33.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_33.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-10 5x WG738473 GROOH (soil SURI

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_34.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_34.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_35.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_35.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_36.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_36.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_37.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_37.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX .5 ppm 14G09861 (soil SURIS14F
Scan File Path: z:\082114\0821_38.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_38.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 1 ppm 14G09861 (soil SURIS14F1
Scan File Path: z:\082114\0821_39.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_39.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 5 ppm 14G09861 (soil SURIS14F1
Scan File Path: z:\082114\0821_40.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_40.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 10 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_41.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_41.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 25 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_42.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_42.D\FID1A.CH					
27	Scanned	D(27)	621	VOCGC12	STD BTEX 50 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_43.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_43.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 100 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_44.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_44.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 150 ppm 14G09861 (soil SURIS14

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_45.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_45.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 200 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_46.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_46.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 250 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_47.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_47.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_48.D					
Original Path: C:\MSDCHEM\1\DATA\082114\0821_48.D\FID1A.CH					
2	Scanned	QM(1)	621	VOCGC12	SSCV BTEX 50 ppm 14G09864 (soil SURIS1
Scan File Path: z:\082114\0821_49.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_49.D\FID1A.CH					
0	Scanned		621	VOCGC12	BLCS (soil SURIS14F10114)
Scan File Path: z:\082114\0821_50.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_50.D\FID1A.CH					
0	Scanned		621	VOCGC12	BLCSD (soil SURIS14F10114)
Scan File Path: z:\082114\0821_51.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_51.D\FID1A.CH					
0	Scanned		621	VOCGC12	GICV (soil SURIS14F10114)
Scan File Path: z:\082114\0821_52.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_52.D\FID1A.CH					
0	Scanned		621	VOCGC12	GLCS (soil SURIS14F10114)
Scan File Path: z:\082114\0821_53.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_53.D\FID1A.CH					
0	Scanned		621	VOCGC12	GLCSD (soil SURIS14F10114)
Scan File Path: z:\082114\0821_54.D					
Original Path: C:\MSDCHEM\1\DATA\082114\0821_54.D\FID1A.CH					
0	Scanned		621	VOCGC12	MS 1x WG738802 LXXXXXX-XX (water SUR
Scan File Path: z:\082114\0821_55.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_55.D\FID1A.CH					
0	Scanned		621	VOCGC12	MSD (soil SURIS14F10114)

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_56.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_56.D\FID1A.CH					
0	Scanned		621	VOCGC12	MS gro (soil SURIS14F10114)
Scan File Path: z:\082114\0821_57.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_57.D\FID1A.CH					
0	Scanned		621	VOCGC12	MSD gro (soil SURIS14F10114)
Scan File Path: z:\082114\0821_58.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_58.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_59.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_59.D\FID1A.CH					
0	Scanned		621	VOCGC12	BLANK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_60.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_60.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717401-01 1x WG738802 BTEXGRO (water S
Scan File Path: z:\082114\0821_61.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_61.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717219-04 1x WG738802 BTEXM (water SUF
Scan File Path: z:\082114\0821_62.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_62.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716156-26 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_63.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_63.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716459-02 1x WG738802 GROWY (water SU
Scan File Path: z:\082114\0821_64.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_64.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716459-09 1x WG738802 GROWY (water SU
Scan File Path: z:\082114\0821_65.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_65.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716459-14 1x WG738802 GROWY (water SU
Scan File Path: z:\082114\0821_66.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_66.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716466-10 1x WG738802 GRO (water SURIS

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_67.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_67.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716224-06 20x WG738802 BTEXM (water SU
Scan File Path: z:\082114\0821_68.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_68.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716689-04 10x WG738802 BTEXGROM (wa
Scan File Path: z:\082114\0821_69.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_69.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716820-01 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_70.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_70.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (water SURIS14F10114)
Scan File Path: z:\082114\0821_71.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_71.D\FID1A.CH					
0	Scanned		621	VOCGC12	BCCV (water SURIS14F10114)
Scan File Path: z:\082114\0821_72.D					
Original Path: C:\MSDCHEM\1\DATA\082114\0821_72.D\FID1A.CH					
0	Scanned		621	VOCGC12	GCCV (water SURIS14F10114)
Scan File Path: z:\082114\0821_73.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_73.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (water SURIS14F10114)
Scan File Path: z:\082114\0821_74.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_74.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716820-02 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_75.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_75.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716820-03 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_76.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_76.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716820-04 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_77.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_77.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717348-15 500x WG738802 BTEXGROM (w

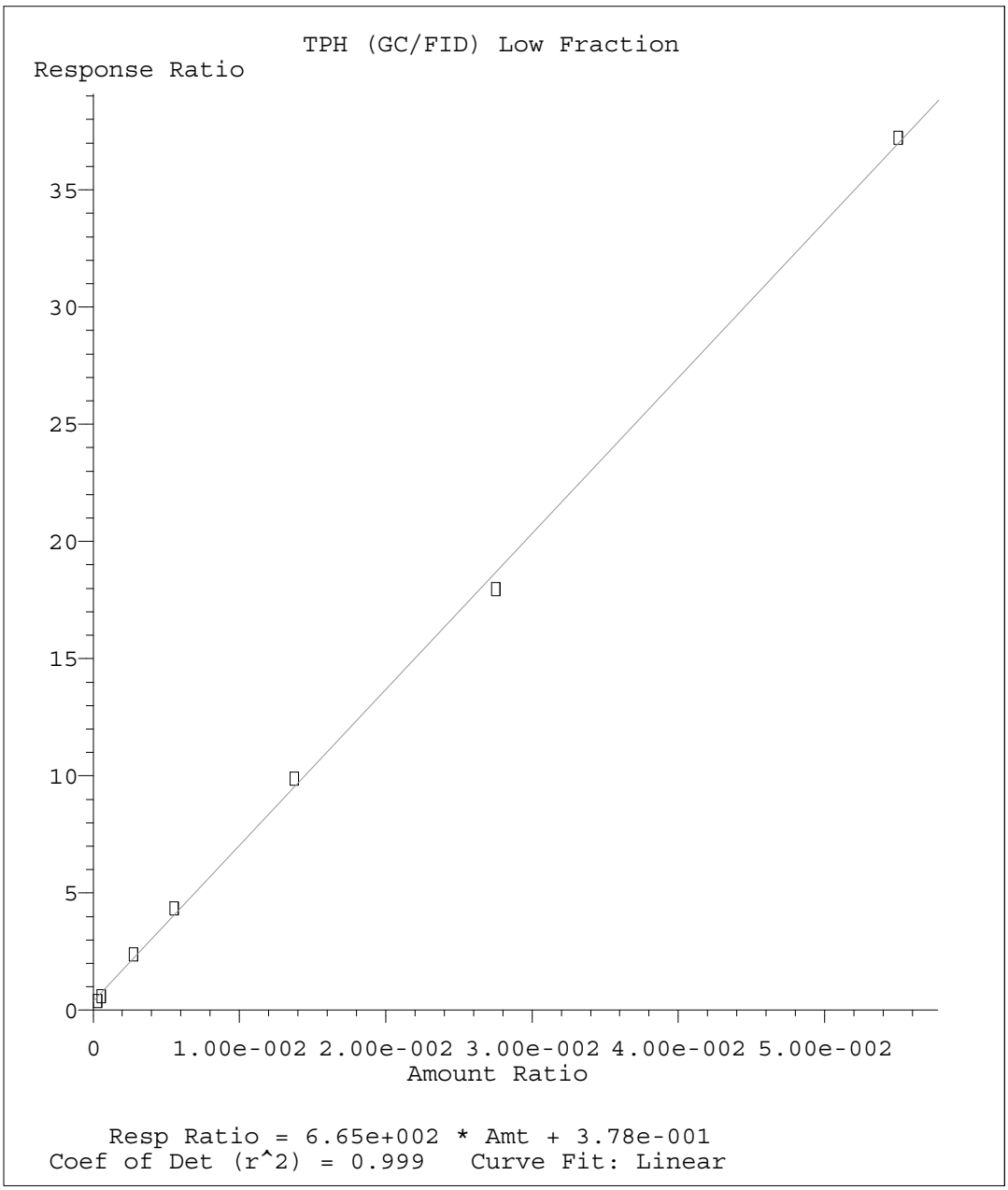
Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_78.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_78.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717401-02 1x WG738802 BTEXGRO (water S
Scan File Path: z:\082114\0821_79.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_79.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717401-03 1x WG738802 BTEXGRO (water S
Scan File Path: z:\082114\0821_80.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_80.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717401-04 20x WG738802 BTEXGRO (water

D = Deletion of any analyte QM = Processed >3 times using the same method

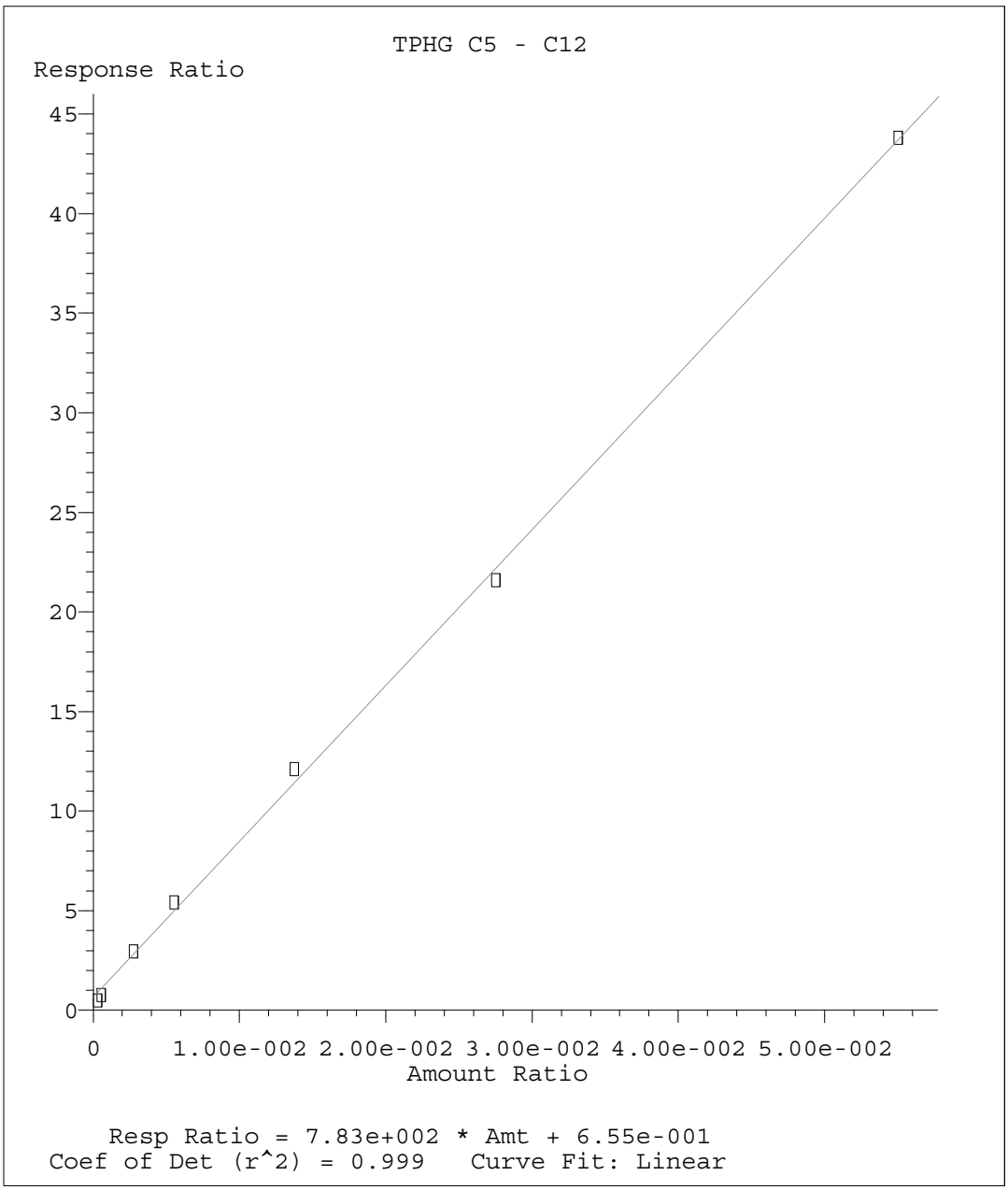
ScanSummary.rpt

Total Files Scanned	Beginning Analyzed Date
Methods	Ending Analyzed Date
Samples	Analyzed Range
Tunes	Greatest Time Between Tunes
CCCs	Greatest Time Between CCCs

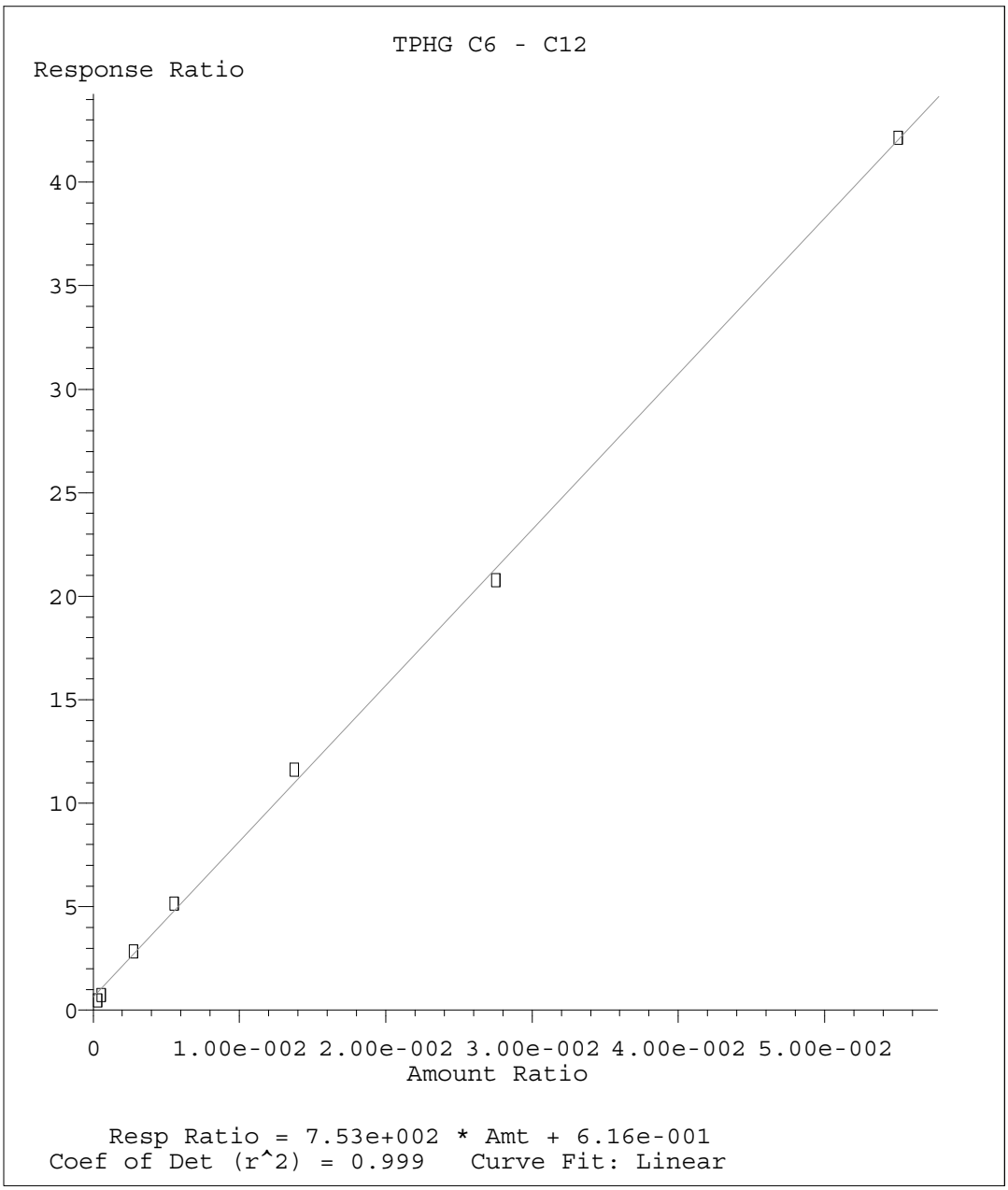
Distinct Method Last Updated count
Operators Intruments



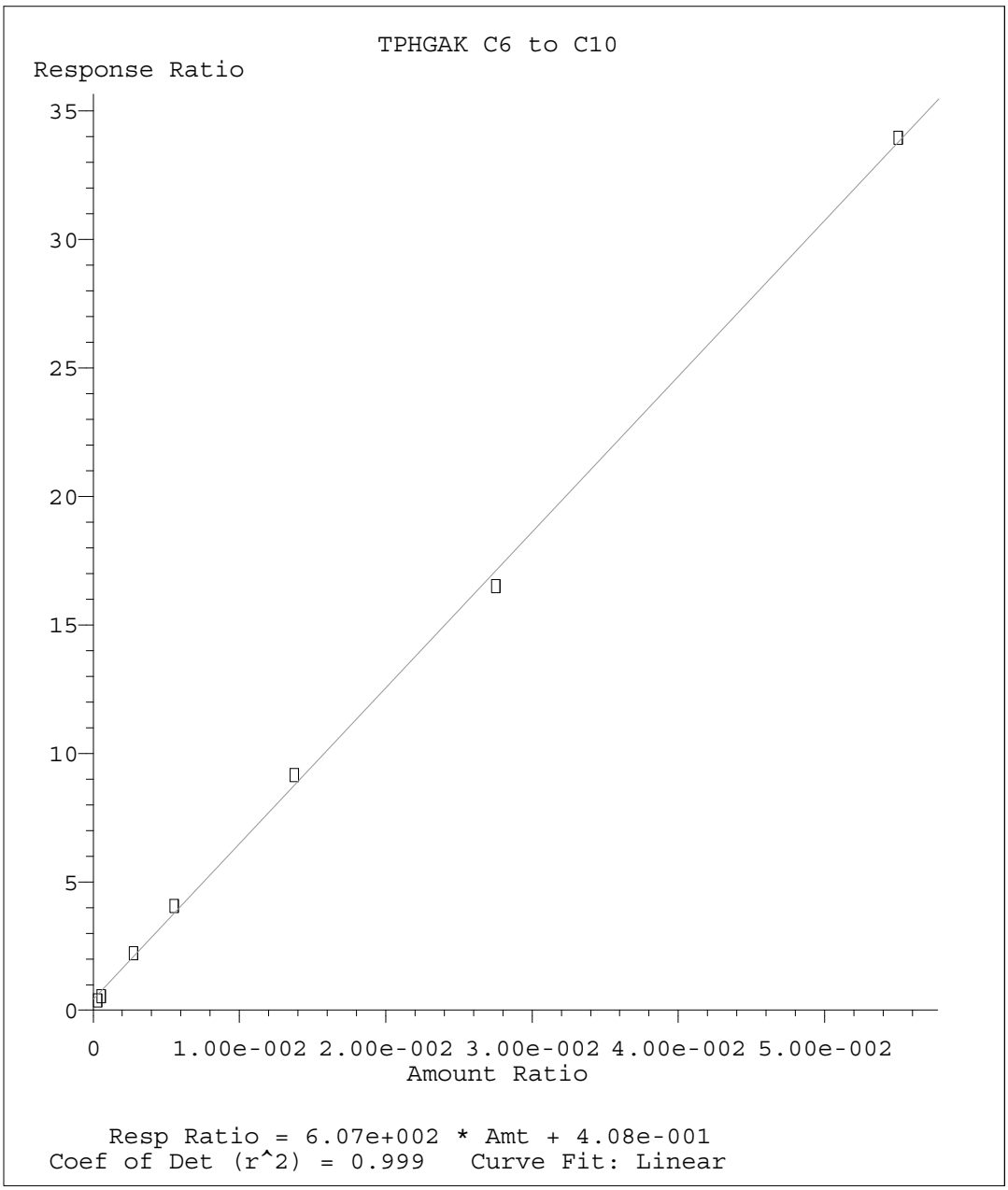
Method Name: C:\MSDCHEM\1\METHODS\BG12H21N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H21N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H21N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H21N.M

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID2B.CH
Acq On : 8-21-2014 07:59:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48:17 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

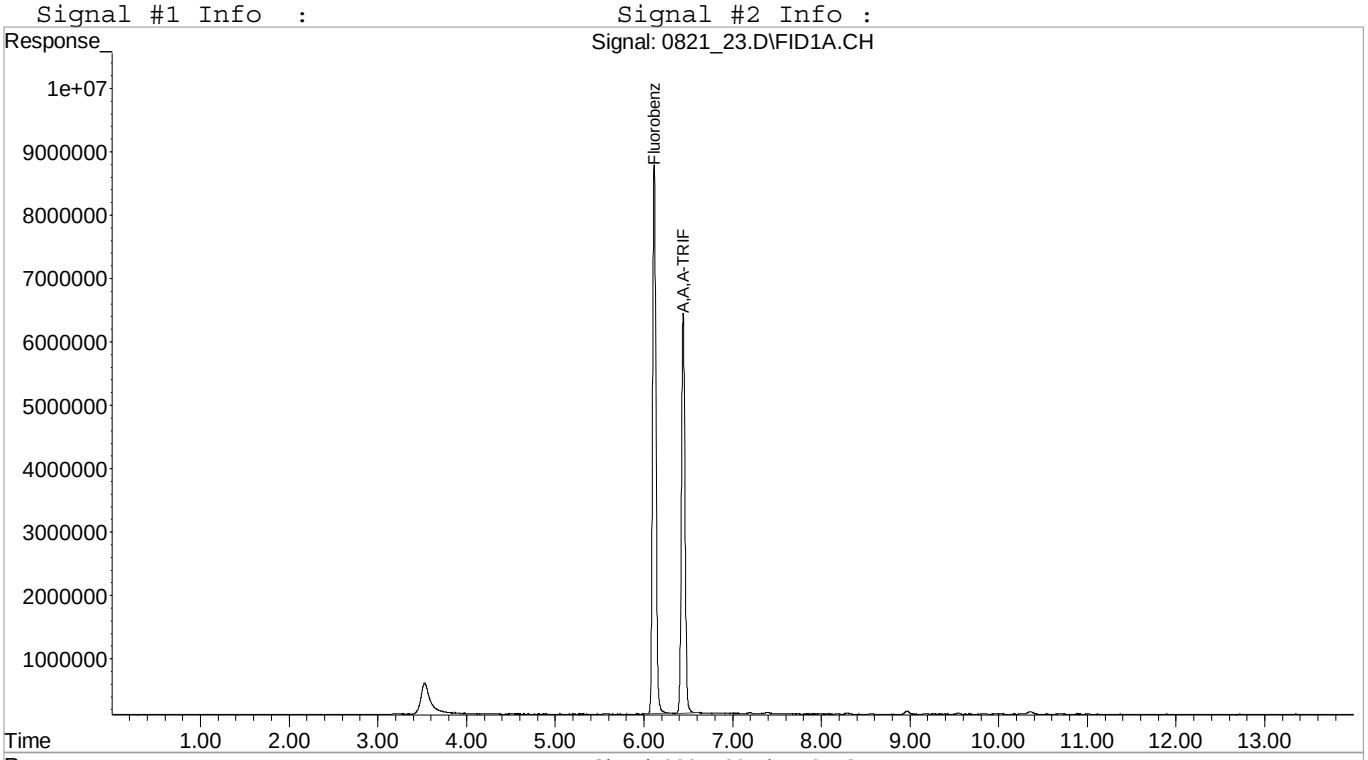
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	226496280	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1052737689	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	174235195	204.9109527	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.46%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	573236439	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	18050	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47063952	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	43659936	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	32160792	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	33516231	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	6.02	648075	NoCal	ppb
13) T,M toluene	7.19	1927034	NoCal	ppb
14) T,M ethylbenzene	8.18	648370	NoCal	ppb
15) T,M m&p-xylene	8.29	2562703	NoCal	ppb
16) T,M o-xylene	8.56	911106	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	888970	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2523367	NoCal	ppb
19) T,M Naphthalene	11.49	44356	NoCal	ppb

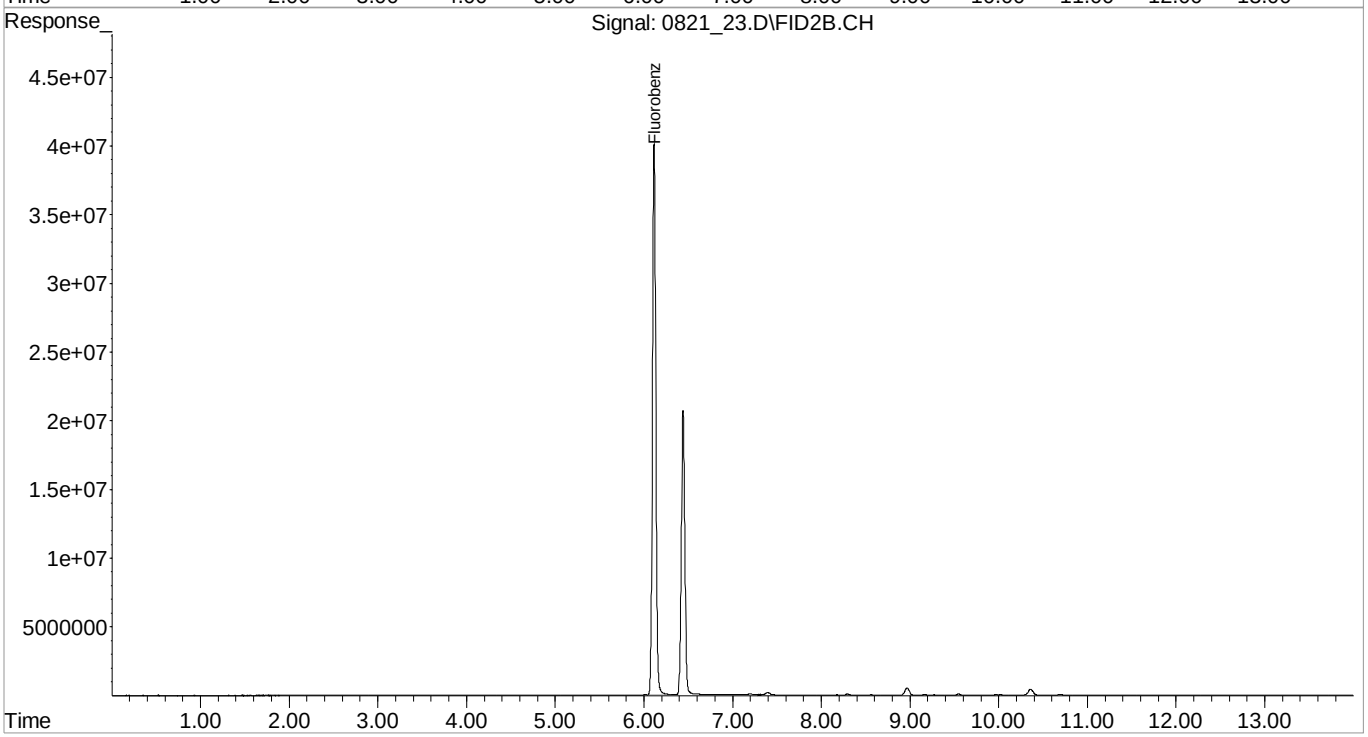
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID2B.CH
Acq On : 8-21-2014 07:59:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID2B.CH
Acq On : 8-21-2014 07:59:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48:17 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

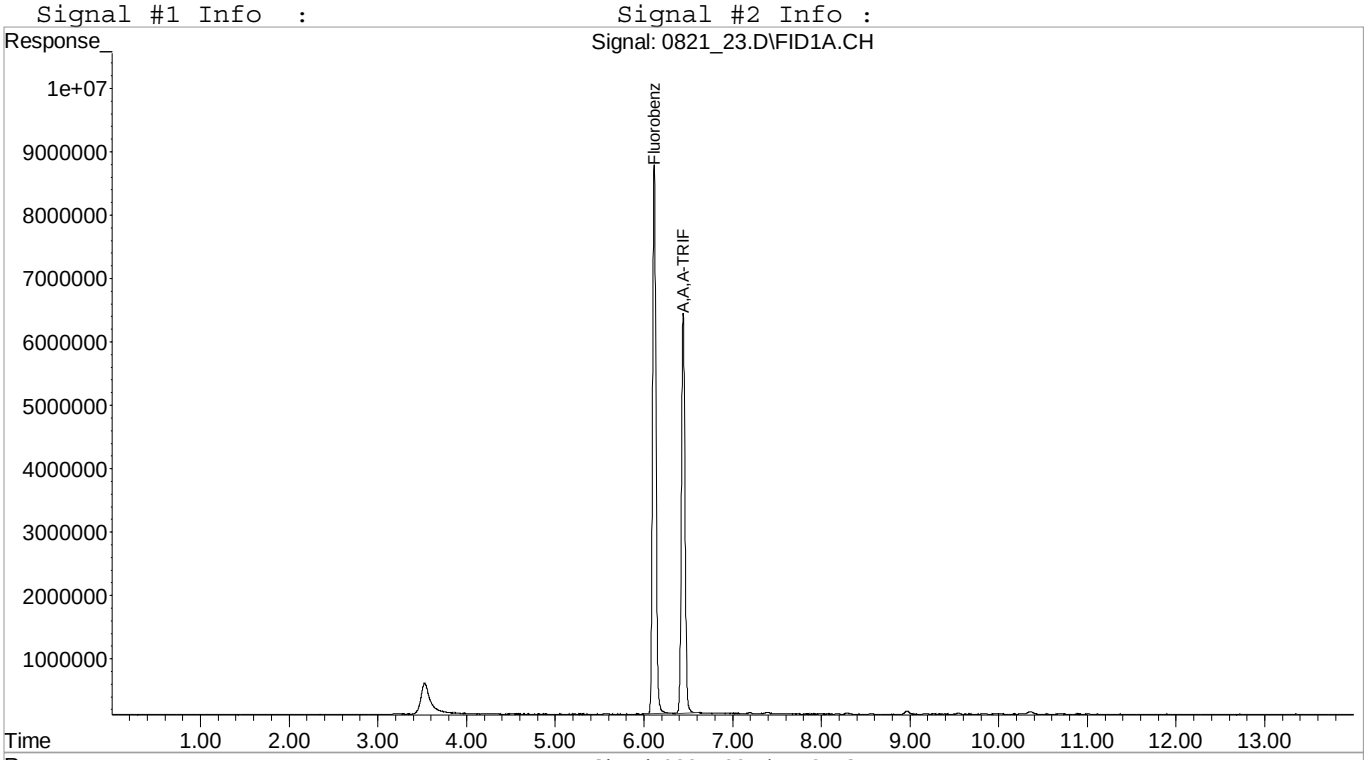
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	226496280	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1052737689	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	174235195	204.9109527	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.46%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	573236439	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	18050	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47063952	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	43659936	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	32160792	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	33516231	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	6.02	648075	NoCal	ppb
13) T,M toluene	7.19	1927034	NoCal	ppb
14) T,M ethylbenzene	8.18	648370	NoCal	ppb
15) T,M m&p-xylene	8.29	2562703	NoCal	ppb
16) T,M o-xylene	8.56	911106	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	888970	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2523367	NoCal	ppb
19) T,M Naphthalene	11.49	44356	NoCal	ppb

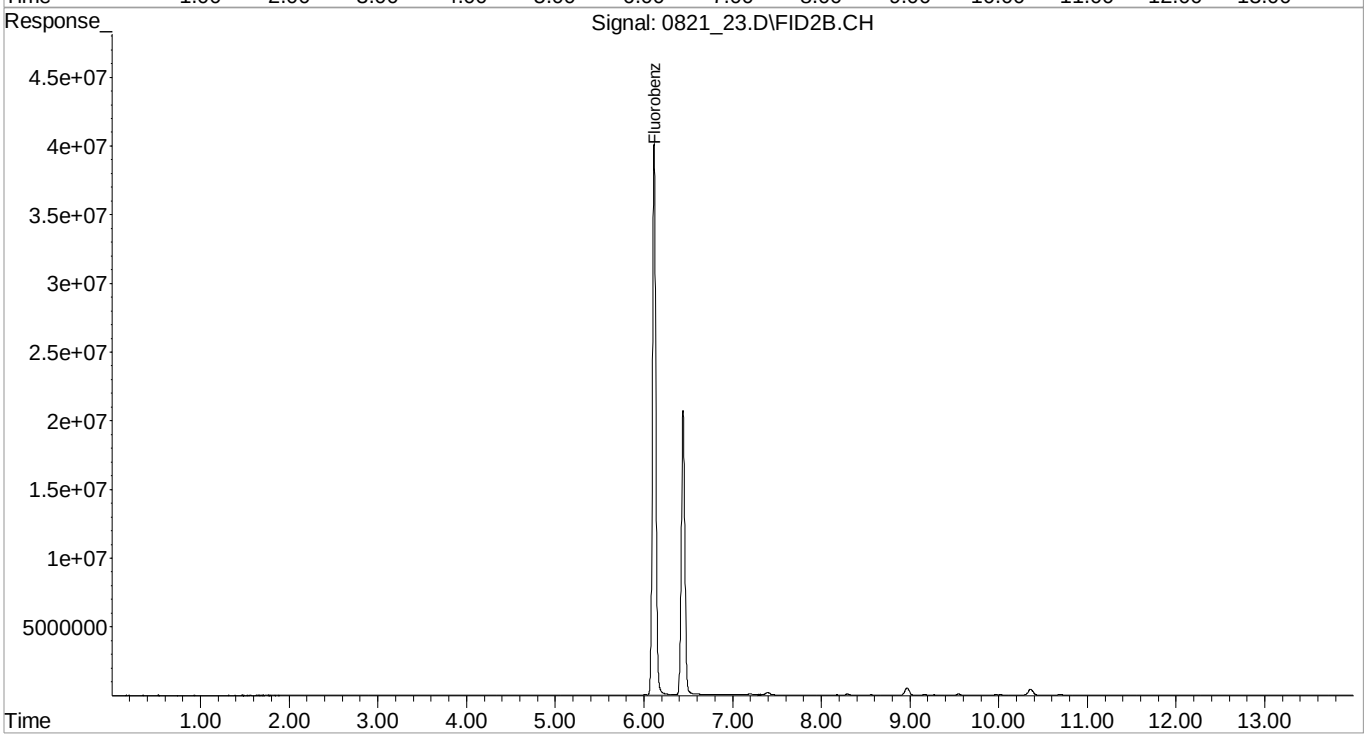
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID2B.CH
Acq On : 8-21-2014 07:59:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID2B.CH
Acq On : 8-10-2014 01:40:48 AM Operator: 621
Sample : SSCV GRO 5.5g ppm 14G07651 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:45:38 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

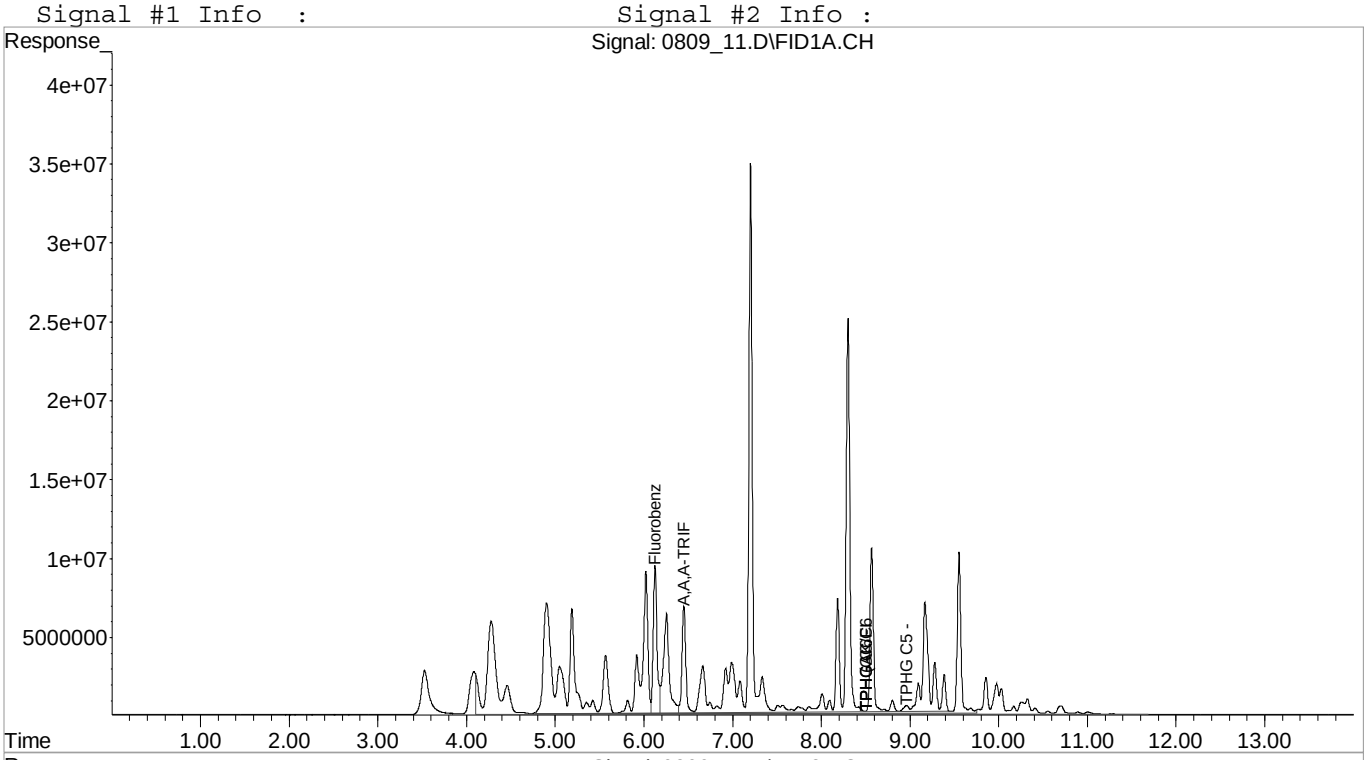
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	6.12	280421578	200.0000000 ppb
9) I Fluorobenzene #2	6.12	1115167773	200.0000000 ppb
System Monitoring Compounds			
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207255010	196.8720071 ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.44%
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	599969730	NoCal ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#
Target Compounds			
2) H,M TPHG C4 - C12	8.96	103932	NoCal ppm
3) H,M TPHG C5 - C12	8.96	6594455652	5.8414297 ppm
4) H,M TPHG C6 - C12	8.50	5909096844	5.4307018 ppm
5) H,M TPHGAK C6 to C10	8.50	4984973596	5.7227528 ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5442743965	5.7200127 ppm
11) T,M Methyl Tert-Butyl Ether	4.92	431198480	NoCal ppb
12) T,M benzene	6.02	757833402	NoCal ppb
13) T,M toluene	7.19	2869393011	NoCal ppb
14) T,M ethylbenzene	8.18	832940116	NoCal ppb
15) T,M m&p-xylene	8.29	2617035917	NoCal ppb
16) T,M o-xylene	8.57	1216805432	NoCal ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	478596269	NoCal ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1317254901	NoCal ppb
19) T,M Naphthalene	11.48	143611	NoCal ppb

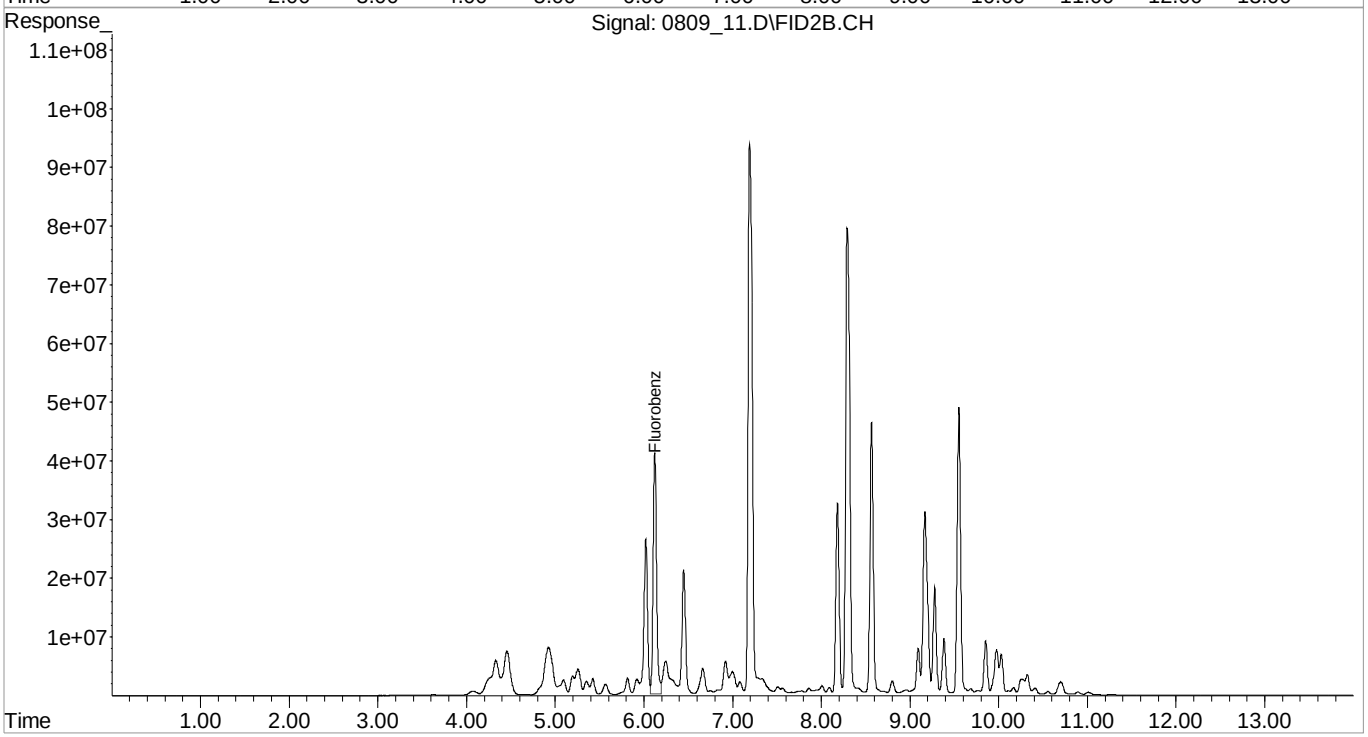
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID2B.CH
Acq On : 8-10-2014 01:40:48 AM Operator: 621
Sample : SSCV GRO 5.5g ppm 14G07651 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:45 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 48.D\FID1A.CH Vial: 48
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 48.D\FID2B.CH
Acq On : 8-21-2014 04:57:11 PM Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:40:03 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

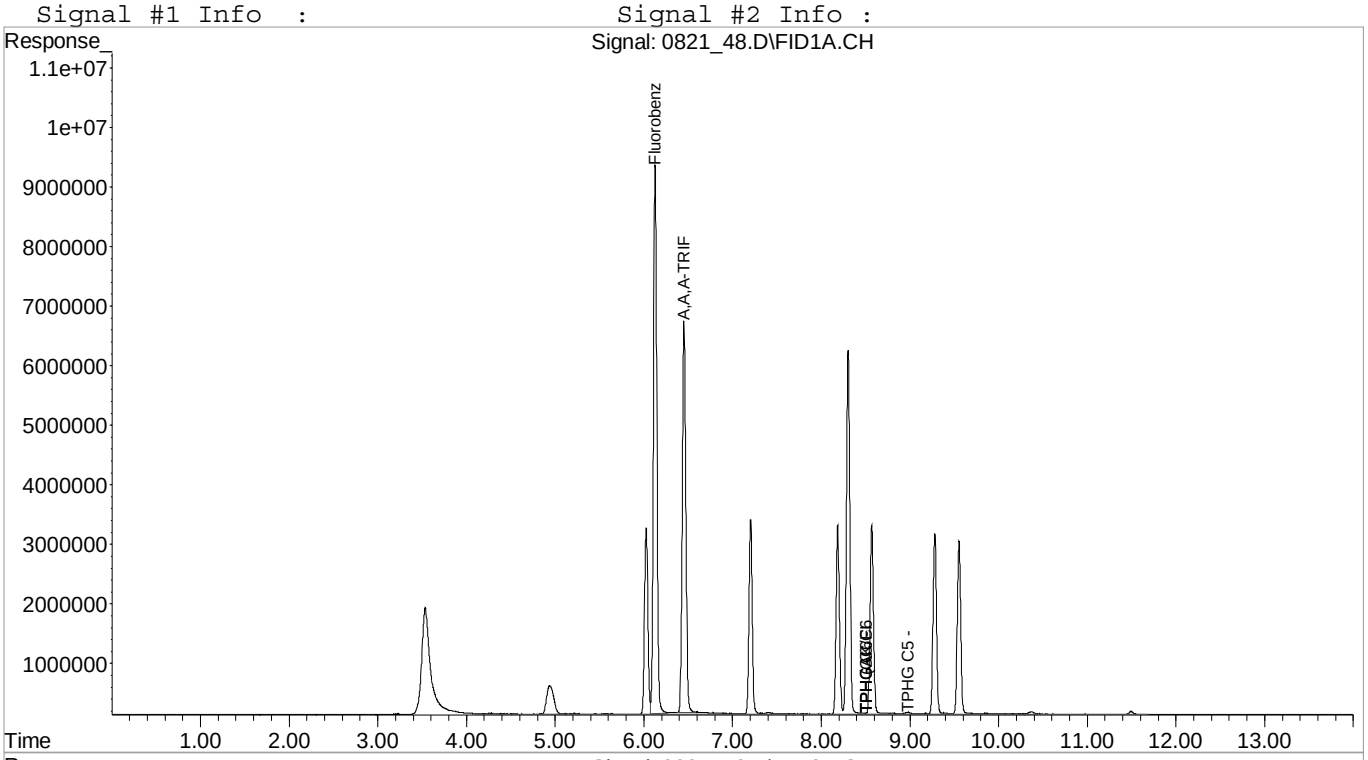
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.13	239612075	200.0000000	ppb
9) I Fluorobenzene #2	6.13	1072730540	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	180142184	200.2613248	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.13%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	568952494	203.8758272	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 101.94%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7782	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	733157403	0.6143788	ppm
4) H,M TPHG C6 - C12	8.50	726074267	0.6409197	ppm
5) H,M TPHGAK C6 to C10	8.50	630854767	0.7330405	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	711197014	0.7783953	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	118678775	44.4127920	ppb
12) T,M benzene	6.02	445791829	48.7795203	ppb
13) T,M toluene	7.20	413849164	51.5615907	ppb
14) T,M ethylbenzene	8.18	361670225	51.6947484	ppb
15) T,M m&p-xylene	8.30	863884856	106.5315787	ppb
16) T,M o-xylene	8.57	366531857	51.8933267	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	490500469	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	369854814	NoCal	ppb
19) T,M Naphthalene	11.49	8818560	NoCal	ppb

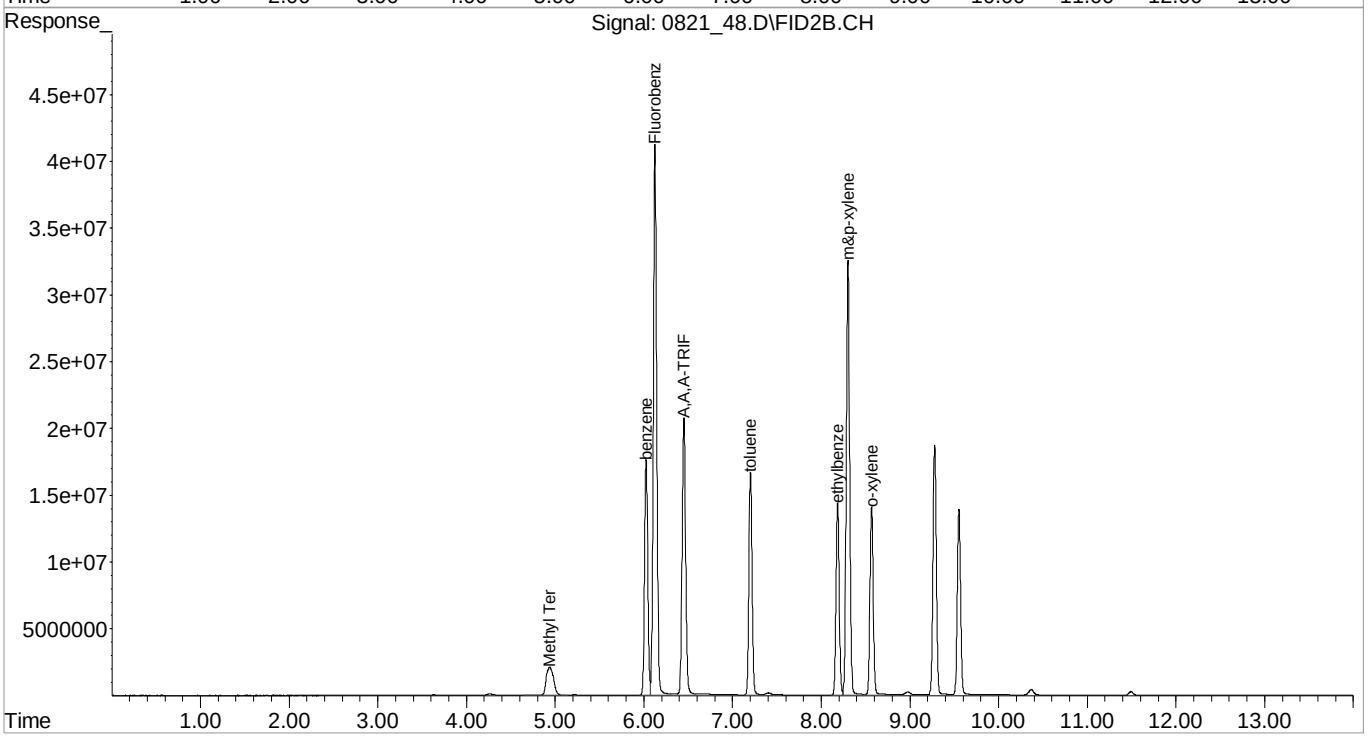
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 48.D\FID1A.CH Vial: 48
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 48.D\FID2B.CH
Acq On : 8-21-2014 04:57:11 PM Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:40 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID2B.CH
Acq On : 09 Aug 2014 10:53 pm Operator: 621
Sample : STD GRO .055 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:12 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

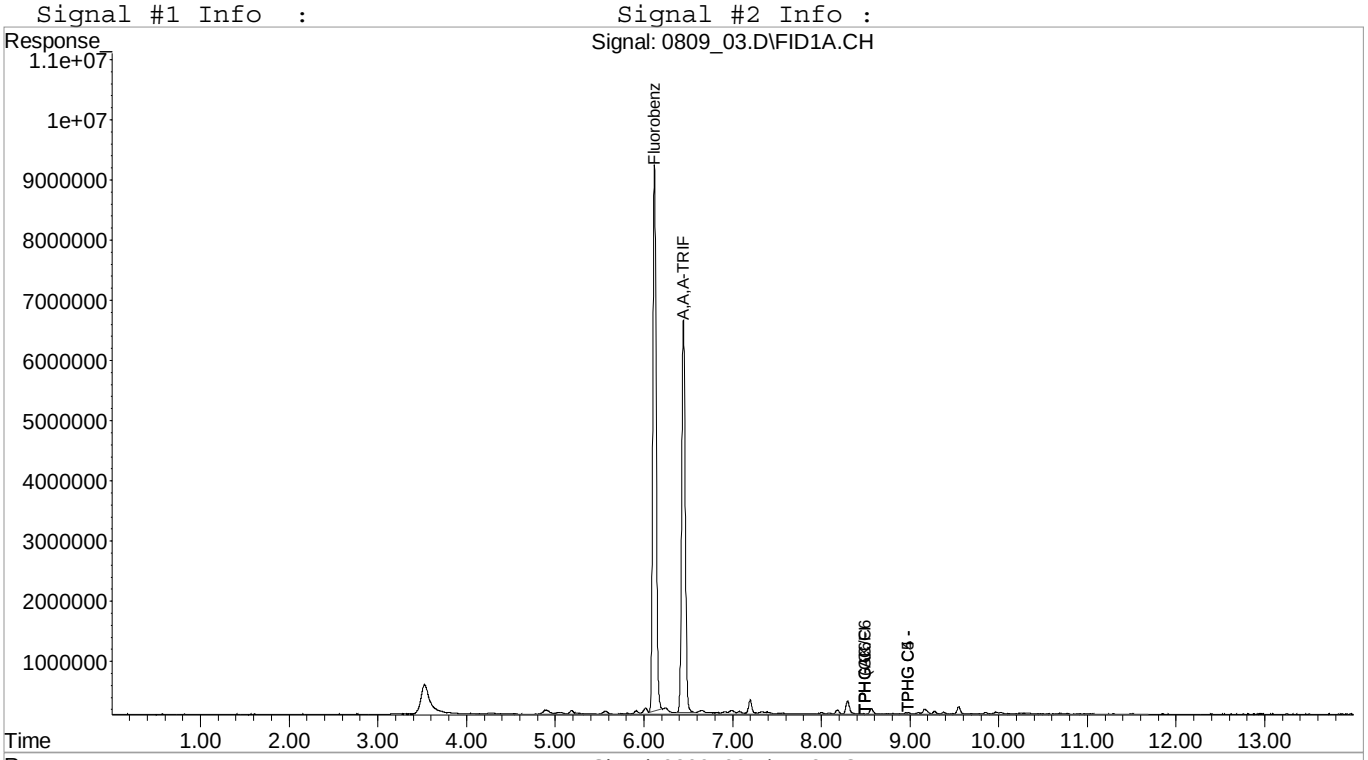
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	234322129	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	178932820	217.0441350	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.52%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	10255	0.1857925	ppm
3) H,M TPHG C5 - C12	8.96	113171901	0.1231745	ppm
4) H,M TPHG C6 - C12	8.50	108536177	0.1226809	ppm
5) H,M TPHGAK C6 to C10	8.50	86352501	0.1228076	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	91153067	0.1192024	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

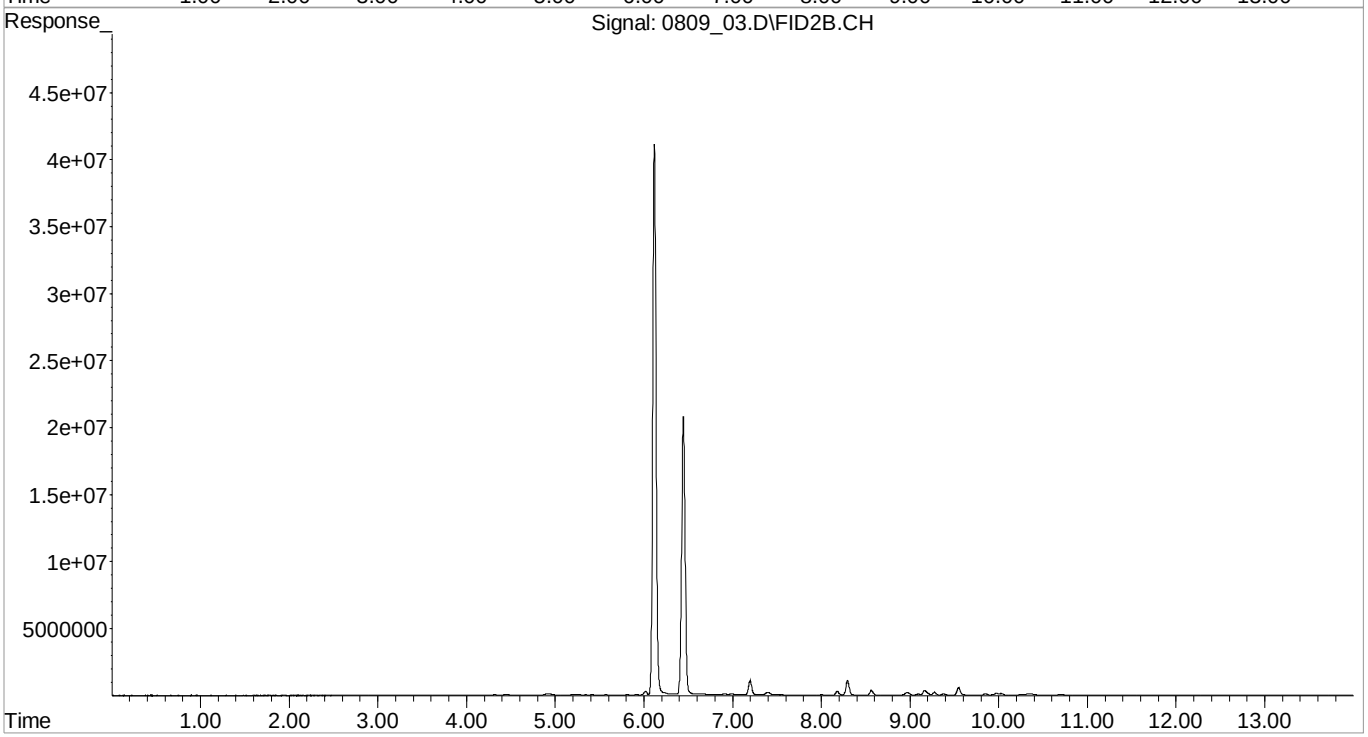
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID2B.CH
Acq On : 09 Aug 2014 10:53 pm Operator: 621
Sample : STD GRO .055 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID1A.CH  Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID2B.CH
Acq On    : 09 Aug 2014  11:14 pm                    Operator: 621
Sample    : STD GRO .11 ppm 14G07650                 Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:14 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

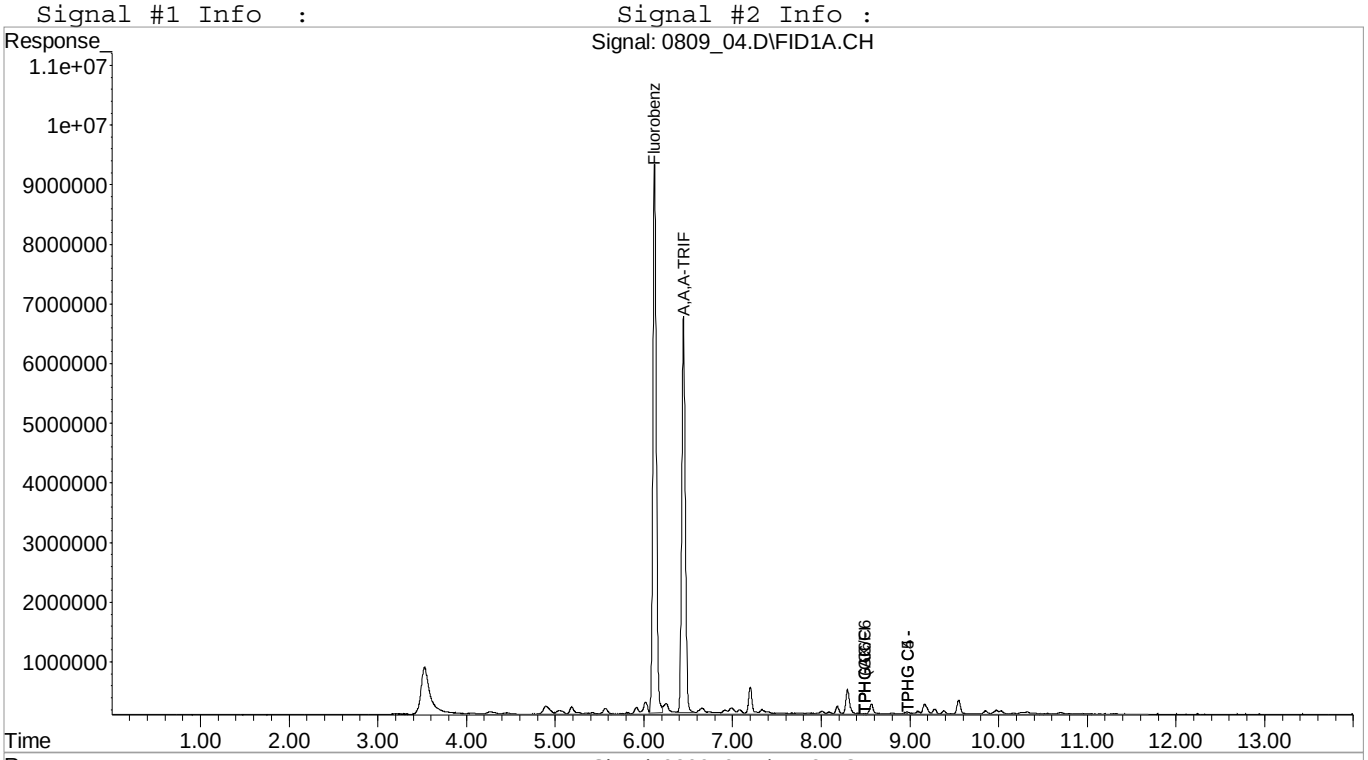
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	240284165	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	181552000	214.7569557	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 107.38%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	6827	0.1206260	ppm	
3) H,M TPHG C5 - C12	8.96	181780058	0.1929374	ppm	
4) H,M TPHG C6 - C12	8.50	172020893	0.1896146	ppm	
5) H,M TPHGAK C6 to C10	8.50	131071375	0.1817801	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	141993391	0.1810798	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

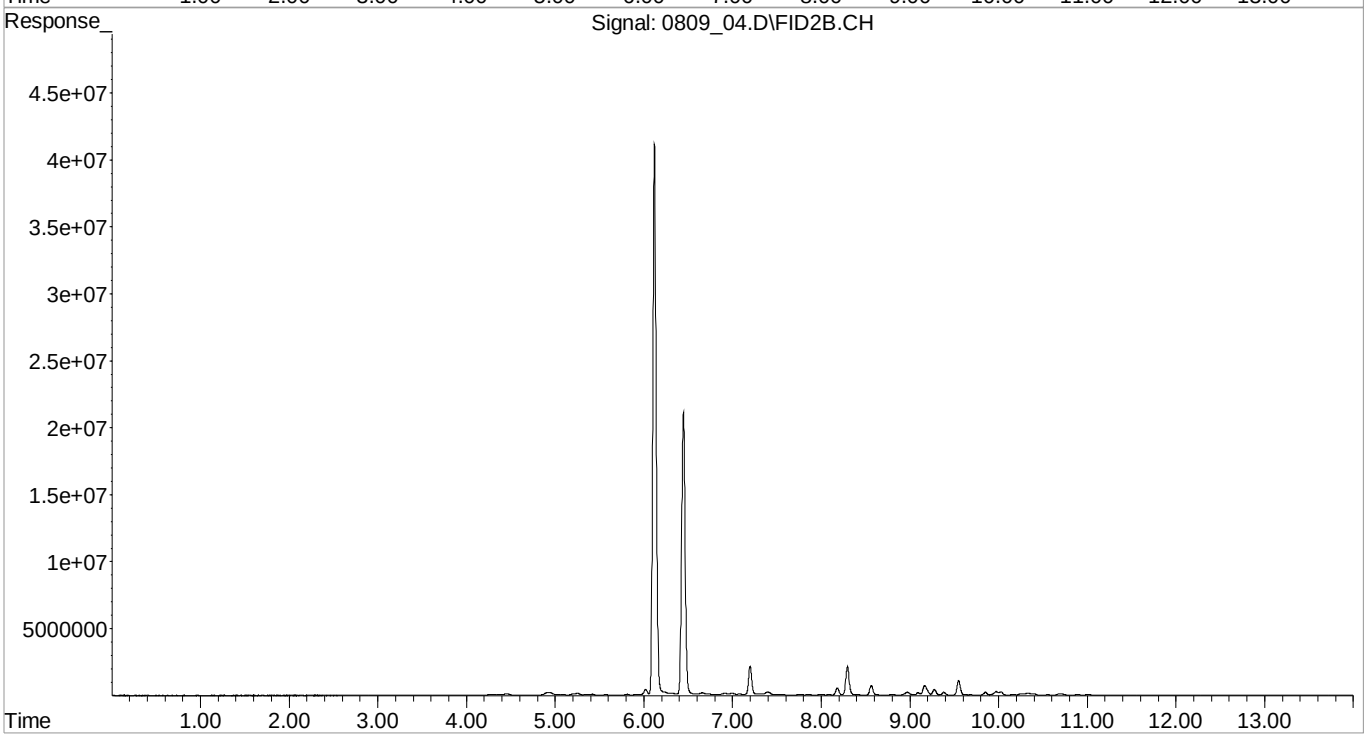
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID2B.CH
Acq On : 09 Aug 2014 11:14 pm Operator: 621
Sample : STD GRO .11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID1A.CH  Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID2B.CH
Acq On    : 09 Aug 2014  11:35 pm                    Operator: 621
Sample    : STD GRO .55 ppm 14G07650                 Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:17 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

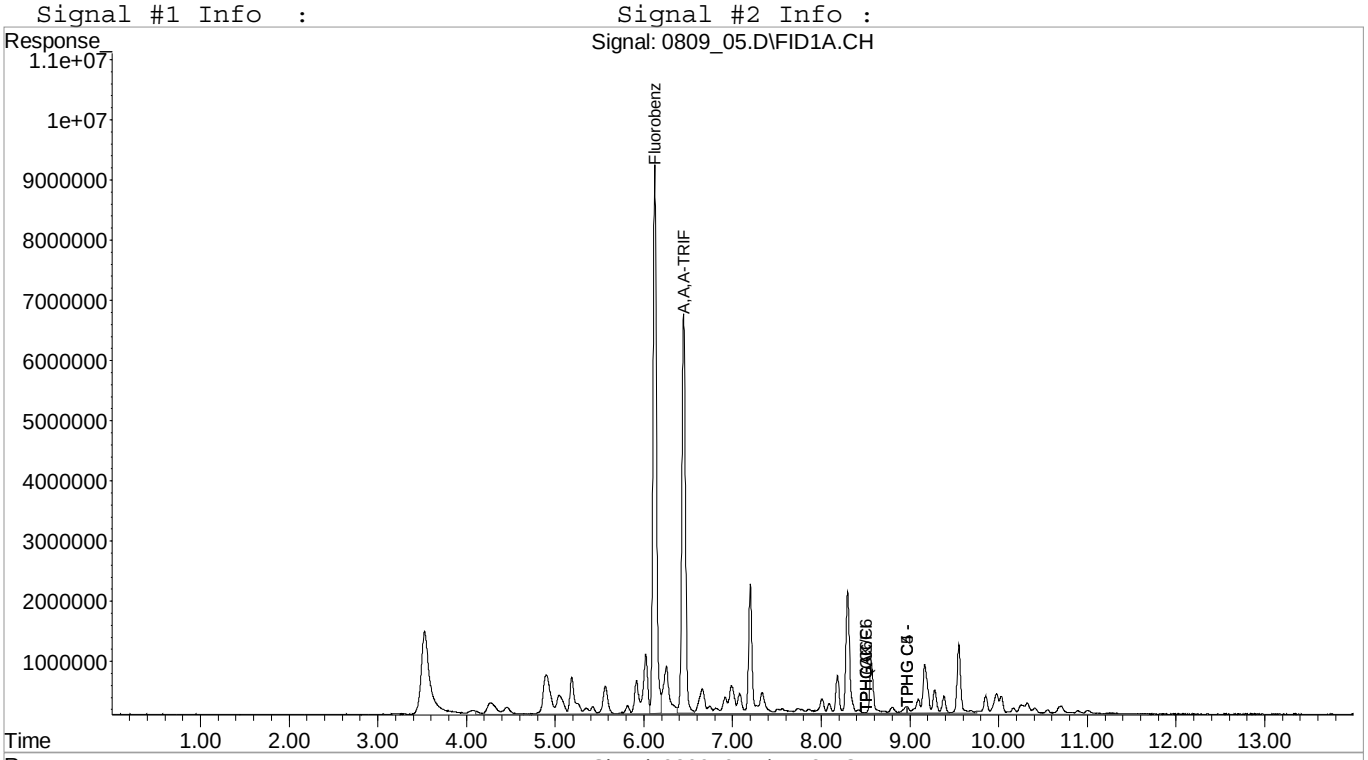
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	243679685	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	185581024	216.4639587	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.23%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	51880	0.9038655	ppm
3) H,M TPHG C5 - C12	8.96	717313773	0.7507325	ppm
4) H,M TPHG C6 - C12	8.50	689086400	0.7489798	ppm
5) H,M TPHGAK C6 to C10	8.50	540260369	0.7388351	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	576935853	0.7254964	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

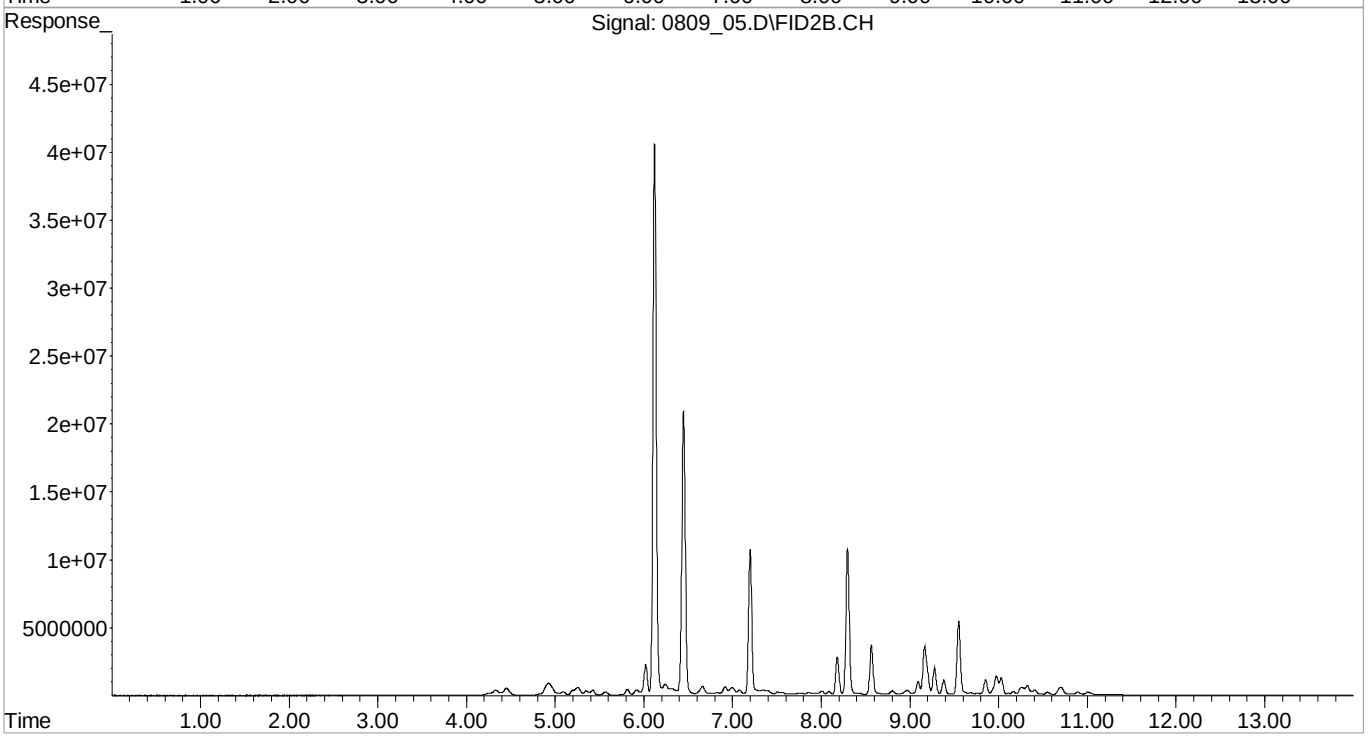
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID2B.CH
Acq On : 09 Aug 2014 11:35 pm Operator: 621
Sample : STD GRO .55 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID2B.CH
Acq On : 09 Aug 2014 11:55 pm Operator: 621
Sample : STD GRO 1.1 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:19 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

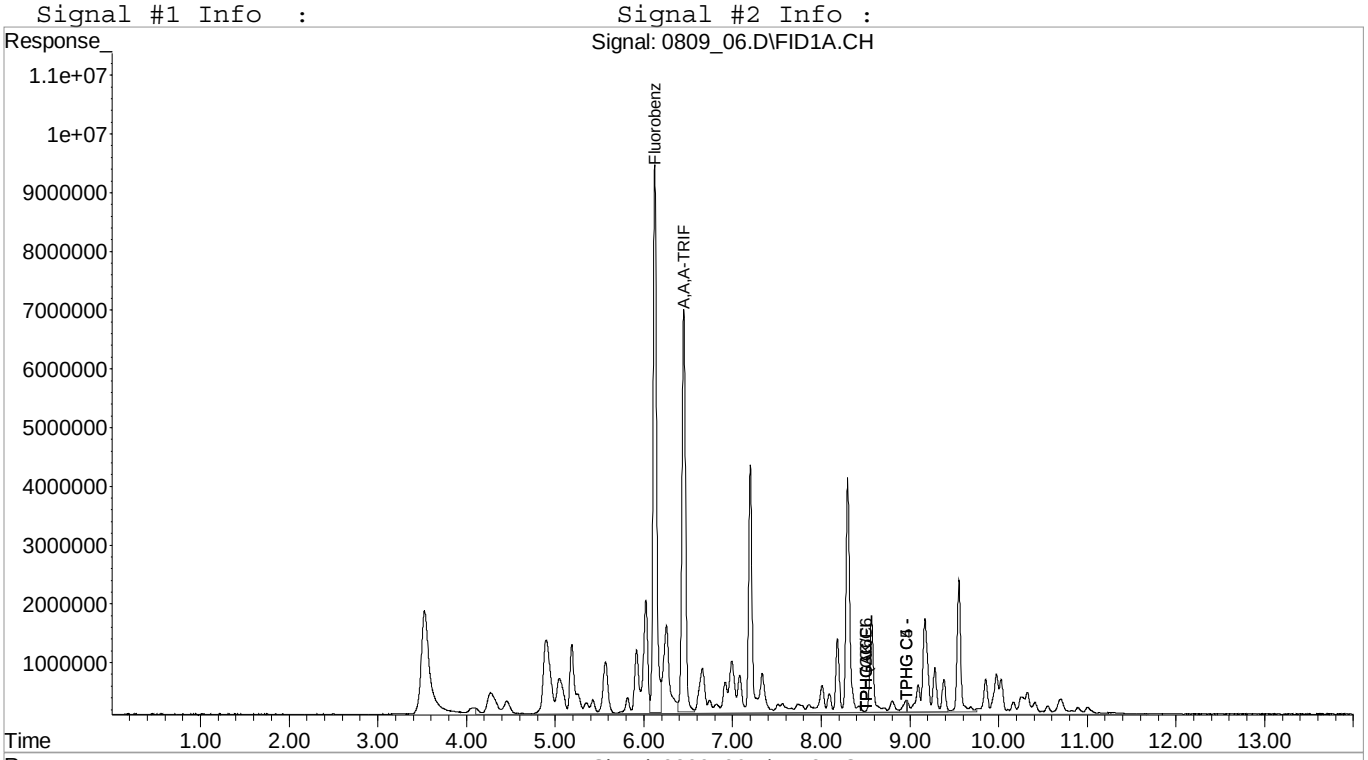
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	254408496	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	193255467	215.9093901	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 107.95%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	1913	0.0319237	ppm
3) H,M TPHG C5 - C12	8.96	1371375356	1.3747385	ppm
4) H,M TPHG C6 - C12	8.50	1309339442	1.3631273	ppm
5) H,M TPHGAK C6 to C10	8.50	1032490316	1.3524403	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	1105235256	1.3312210	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

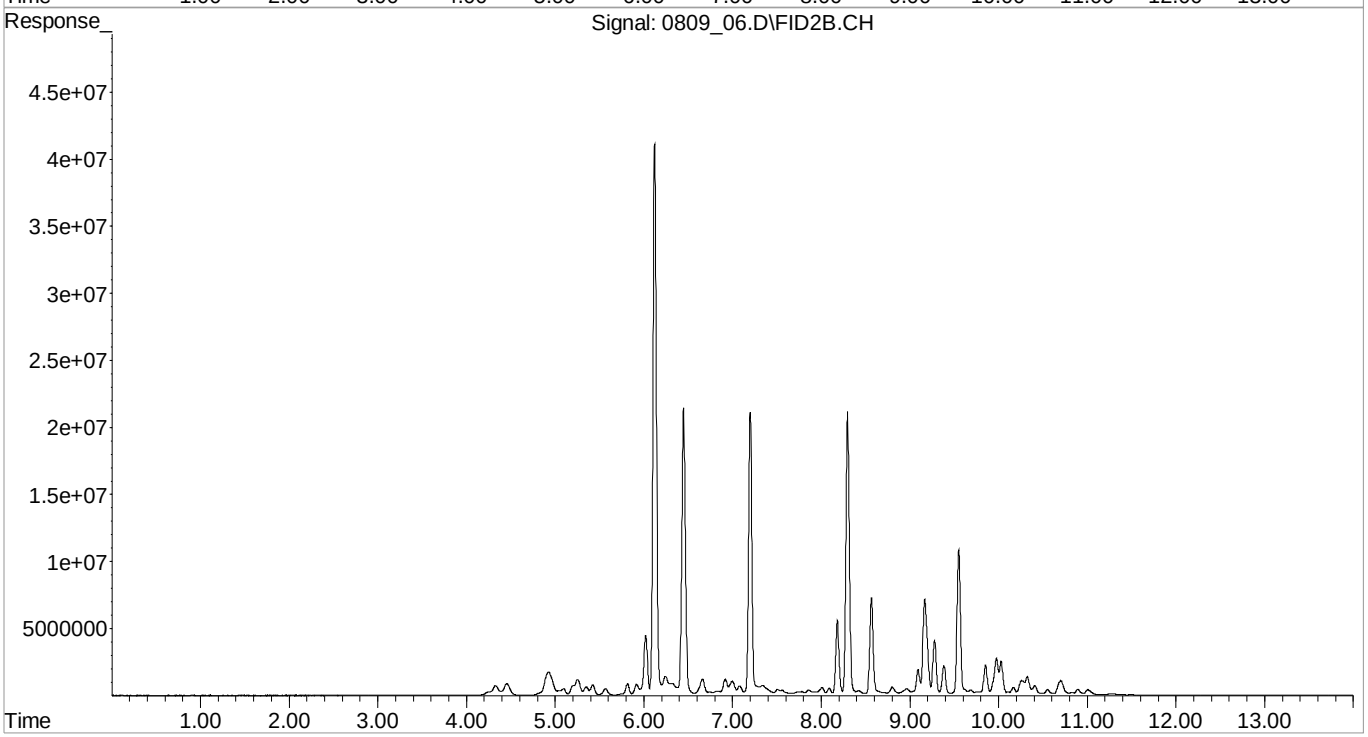
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID2B.CH
Acq On : 09 Aug 2014 11:55 pm Operator: 621
Sample : STD GRO 1.1 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID2B.CH
Acq On : 10 Aug 2014 12:16 am Operator: 621
Sample : STD GRO 2.75 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:22 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

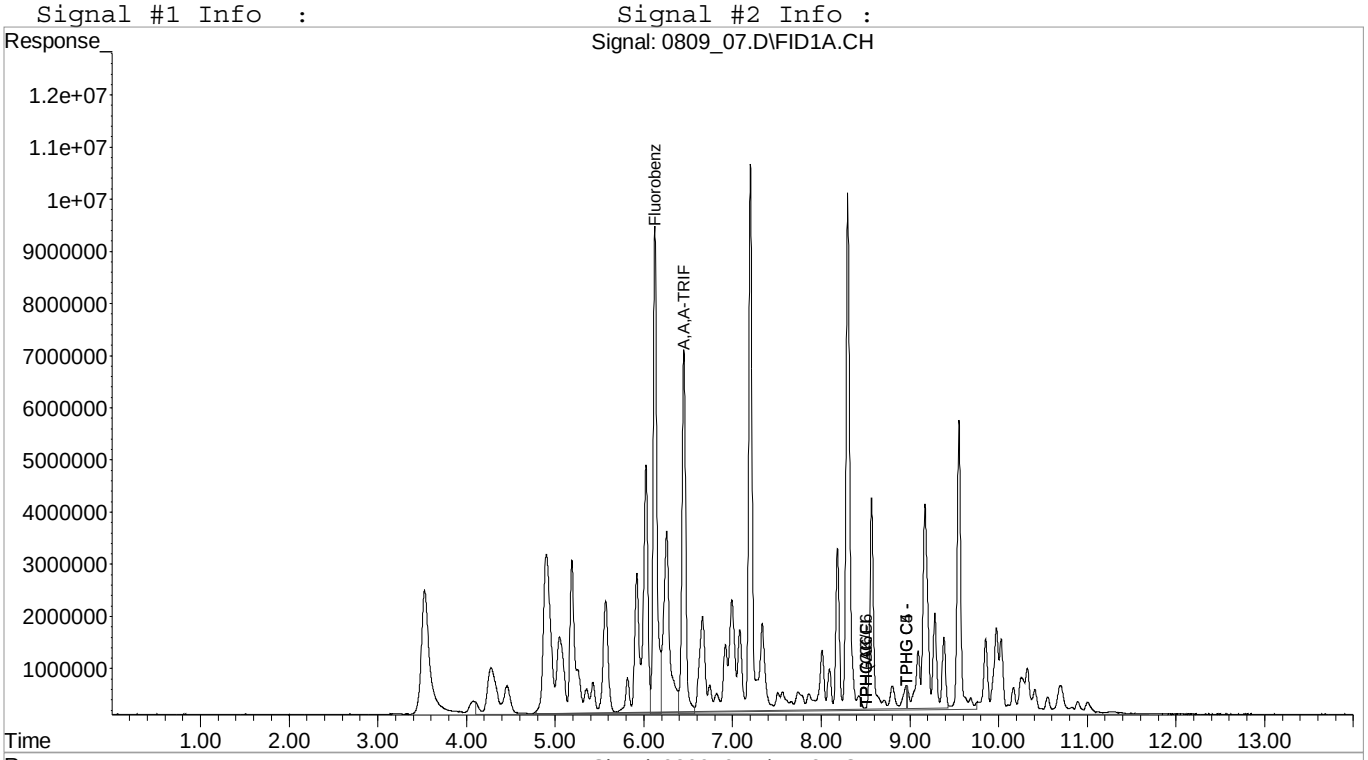
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	271919527	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207673249	217.0758524	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.54%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	30458	0.4755398	ppm
3) H,M TPHG C5 - C12	8.96	3286899164	3.0827717	ppm
4) H,M TPHG C6 - C12	8.50	3155240040	3.0733200	ppm
5) H,M TPHGAK C6 to C10	8.50	2483616948	3.0437428	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	2685233088	3.0259980	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

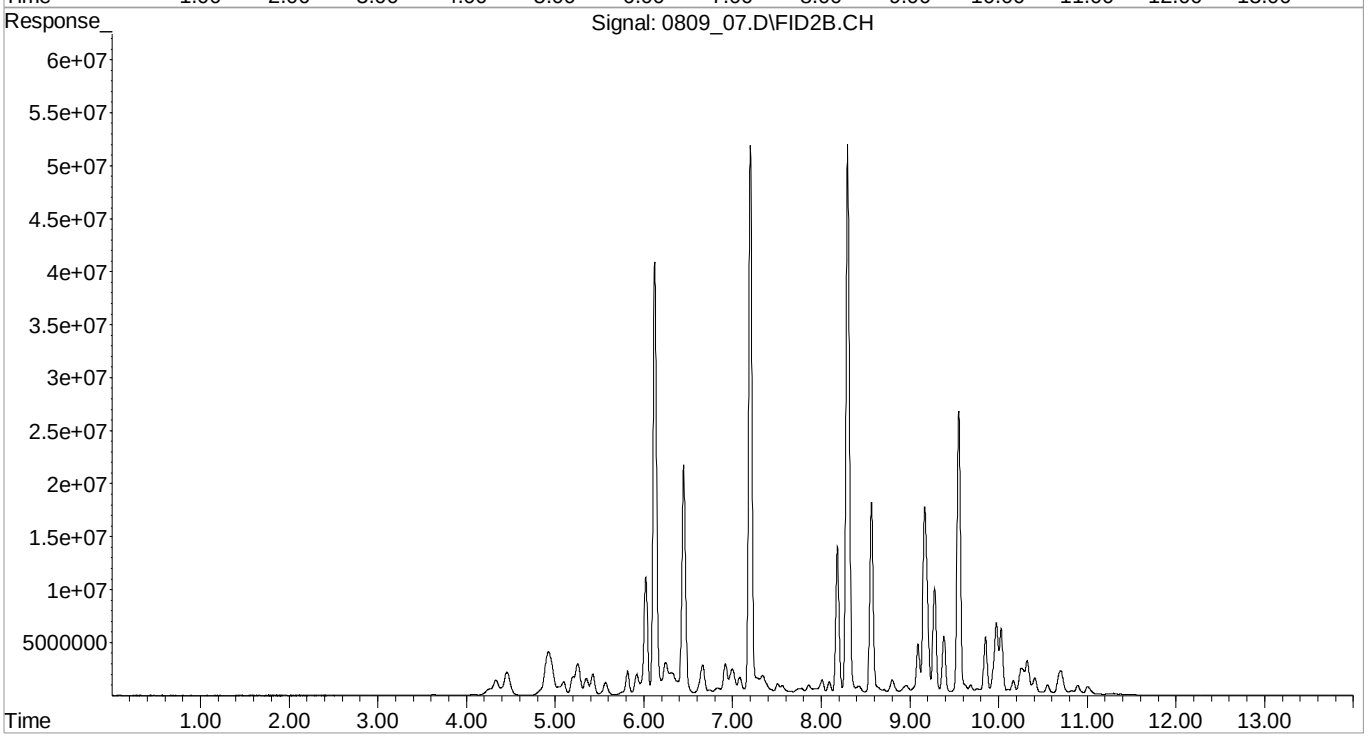
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID2B.CH
Acq On : 10 Aug 2014 12:16 am Operator: 621
Sample : STD GRO 2.75 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID2B.CH
Acq On : 10 Aug 2014 12:37 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:24 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

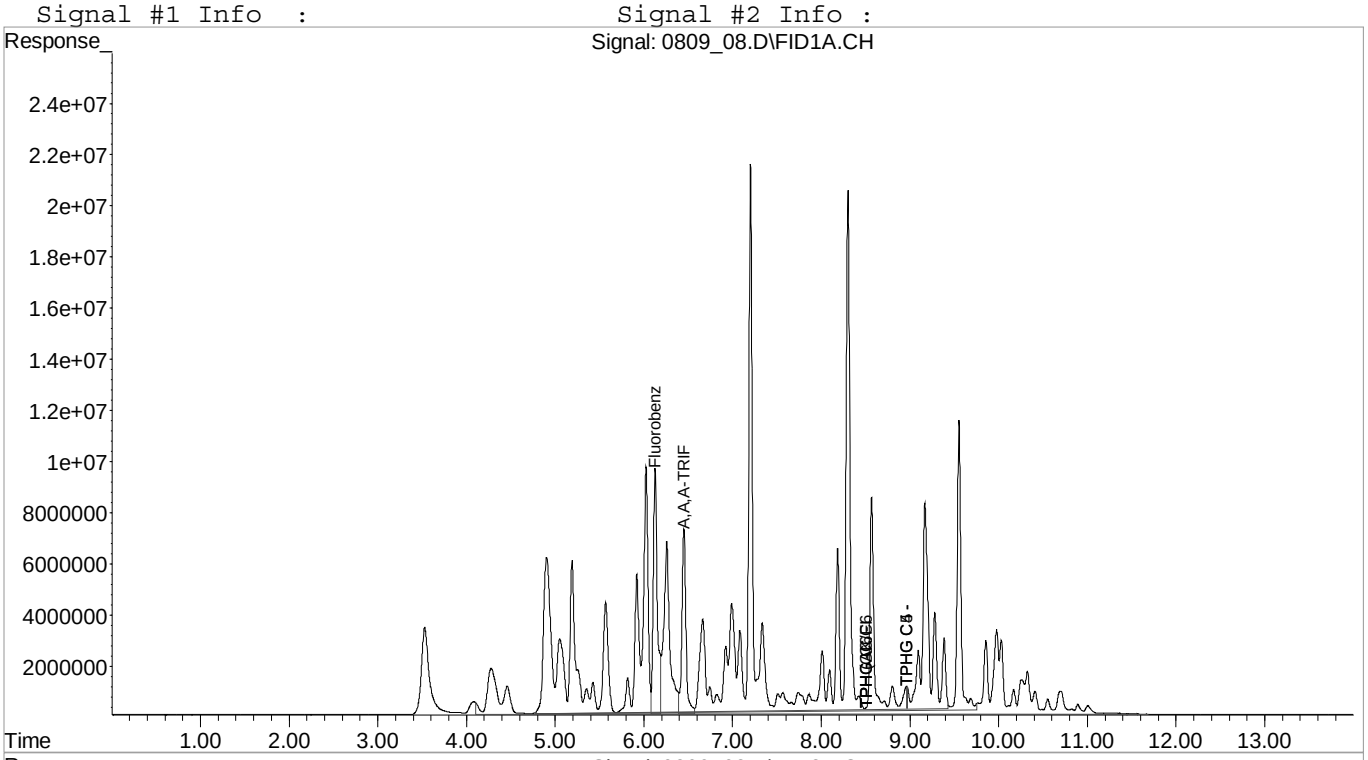
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	305641610	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	225818969	210.0000000	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 105.00%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	395963	5.5000000	ppm	
3) H,M TPHG C5 - C12	8.96	6591432236	5.5000000	ppm	
4) H,M TPHG C6 - C12	8.50	6346867019	5.5000000	ppm	
5) H,M TPHGAK C6 to C10	8.50	5044422289	5.5000000	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	5485902937	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

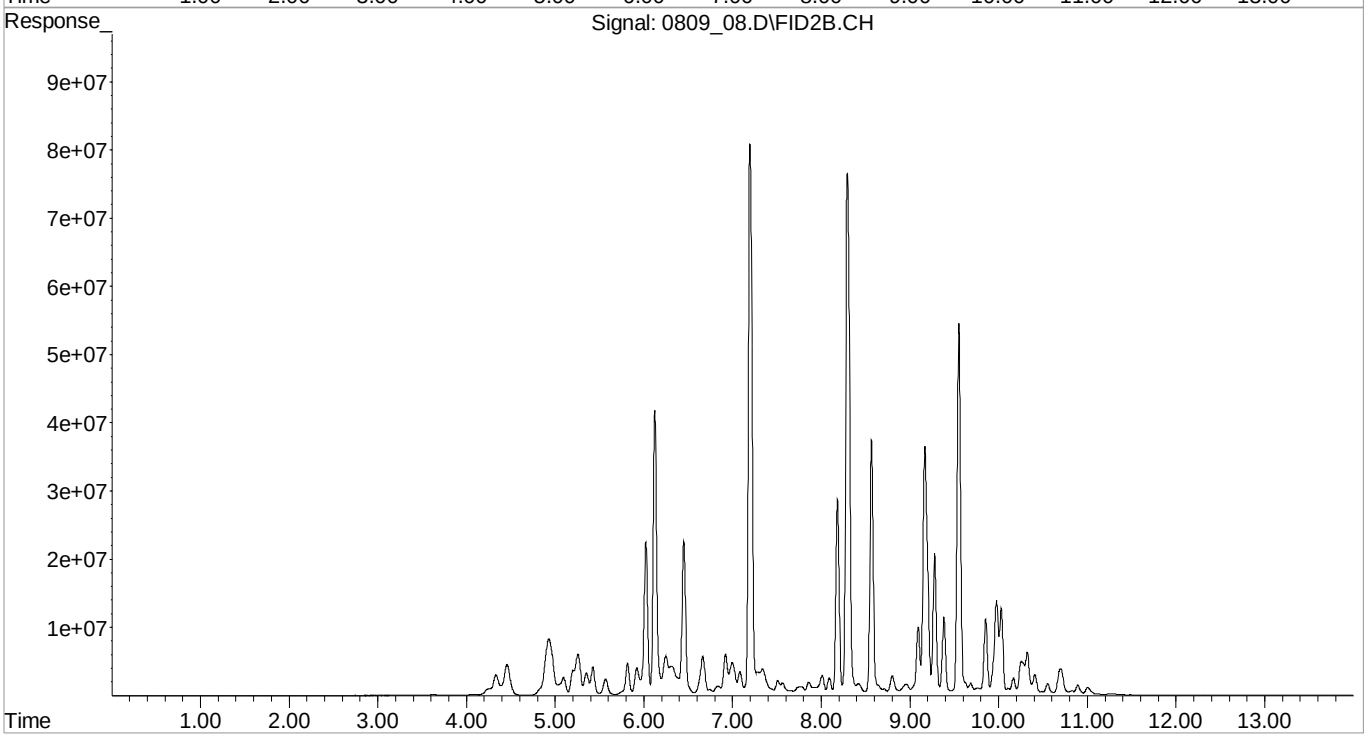
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID1A.CH  Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID2B.CH
Acq On    : 10 Aug 2014  12:37 am                    Operator: 621
Sample    : MSTD GRO 5.5g ppm 14G07650               Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:27 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

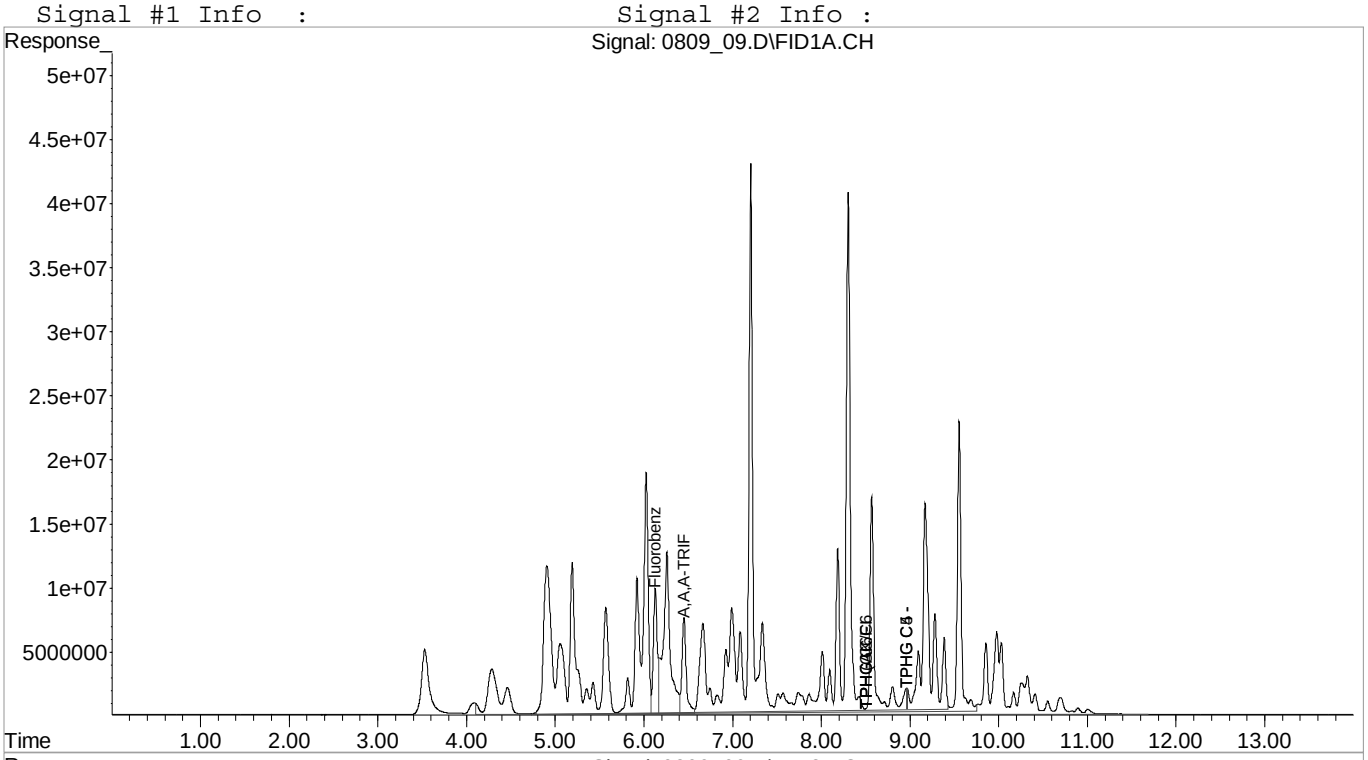
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.13	293554262	200.0000000	ppb	m
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	255754816	247.6320110	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 123.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	494161	7.1466121	ppm	
3) H,M TPHG C5 - C12	8.96	12857568528	11.1703256	ppm	
4) H,M TPHG C6 - C12	8.50	12369250024	11.1601684	ppm	
5) H,M TPHGAK C6 to C10	8.50	9969518391	11.3174744	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	10925236486	11.4043229	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

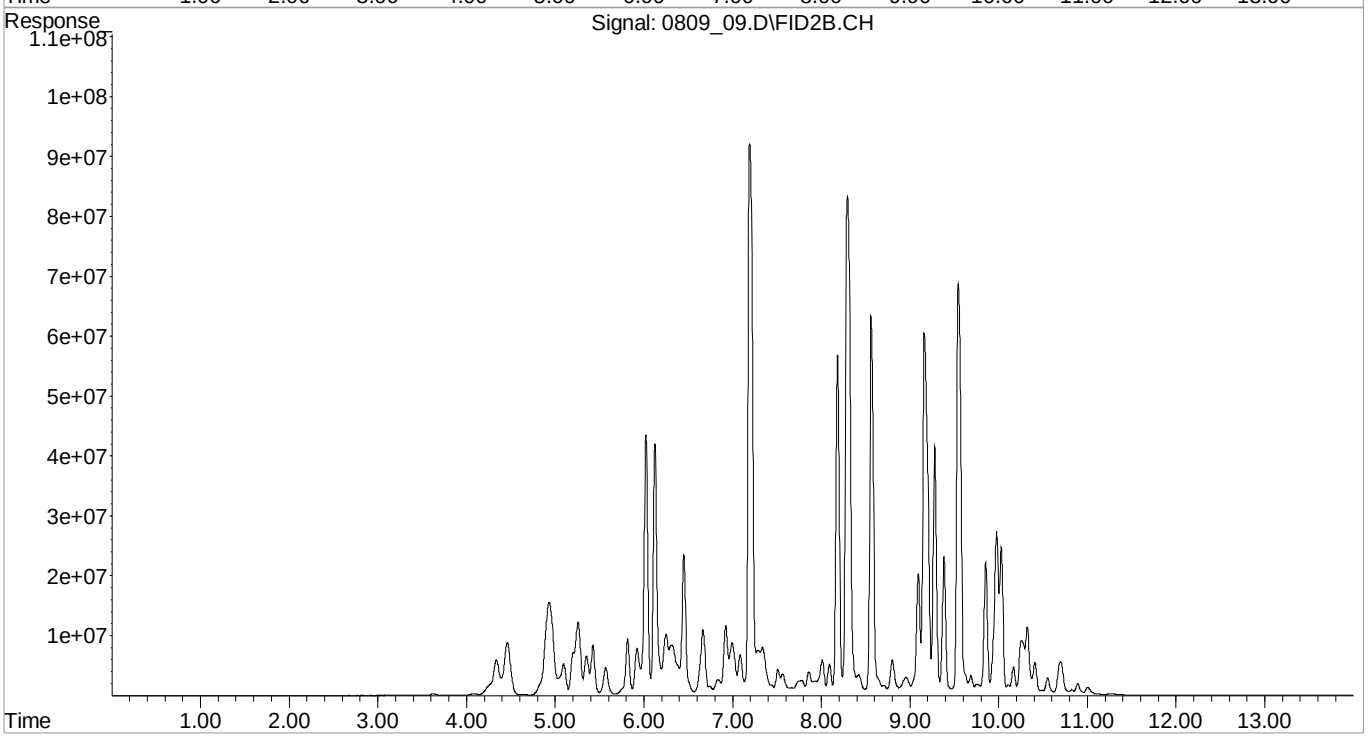
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:44 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

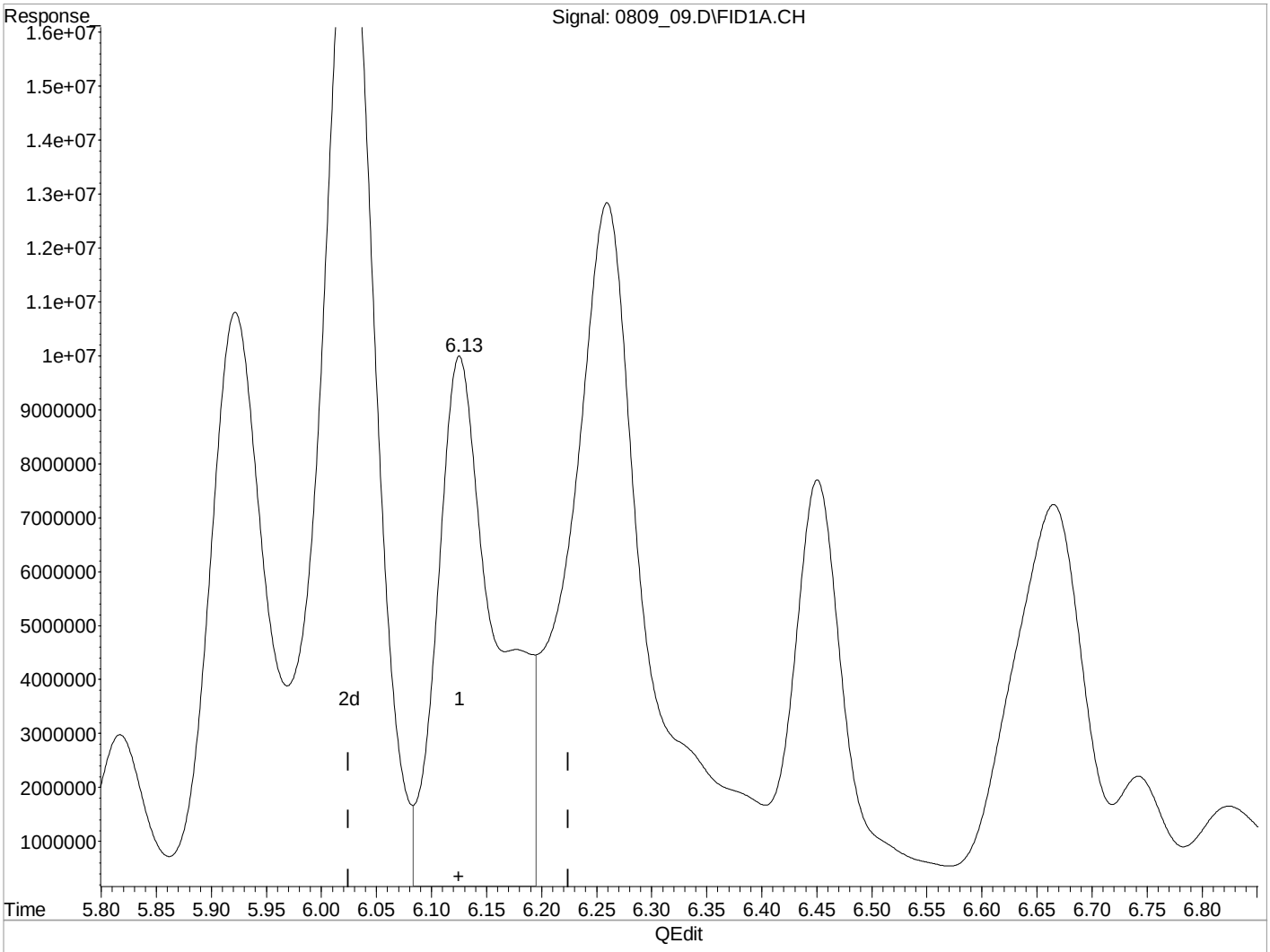




Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH  Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On    : 10 Aug 2014  12:58 am                    Operator: 621
Sample    : STD GRO 11 ppm 14G07650                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014  Quant Results File: BG12H09N.RES


Method       : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:42:37 2014
Response via : Multiple Level Calibration
```



(1) Fluorobenzene #1 (I)

6.13min 200.0000000 ppb

response 370717583

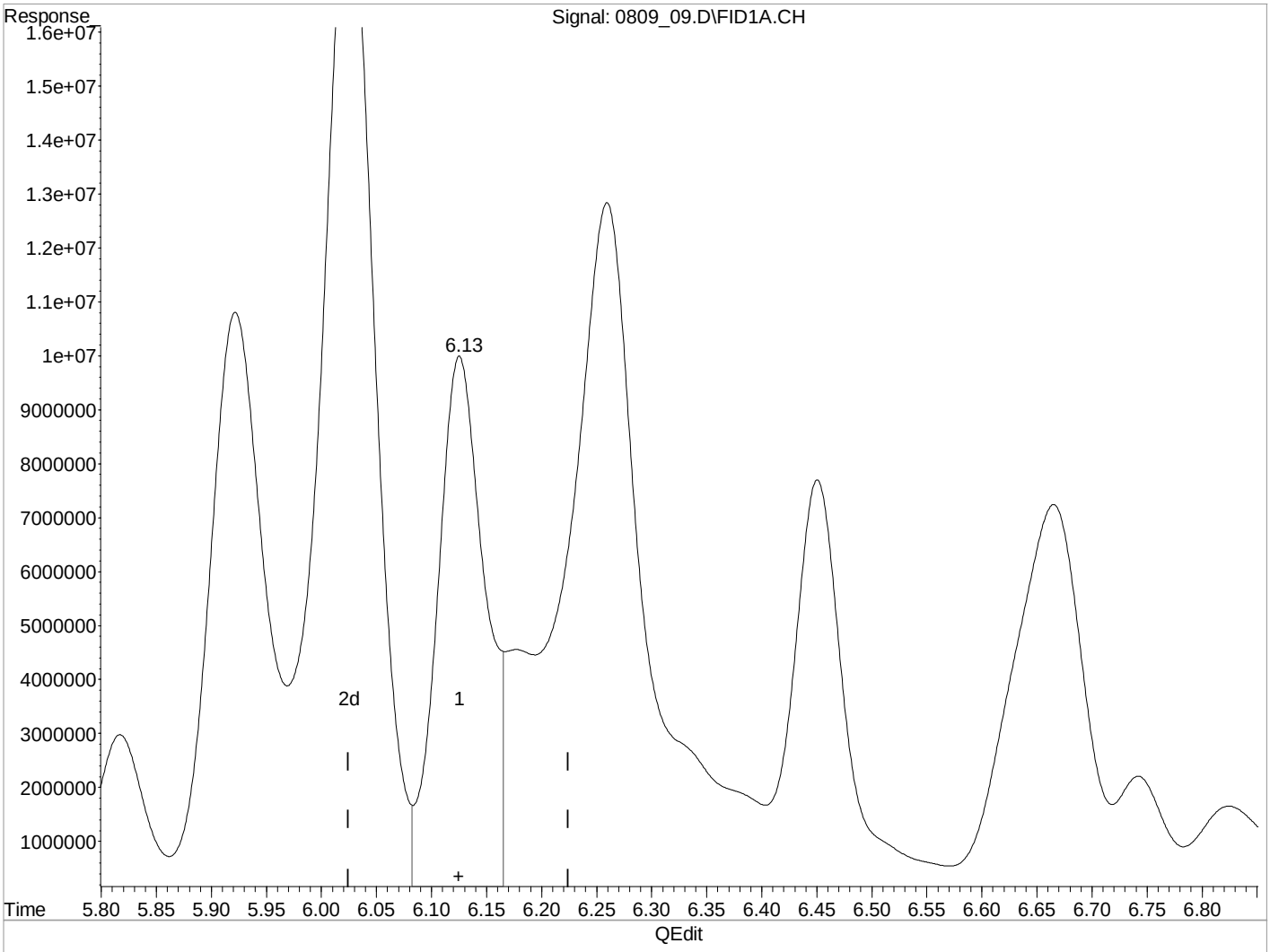
(+) = Expected Retention Time

0809_09.D BG12H09N.M Mon Aug 11 12:44:06 2014

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014 Quant Results File: BG12H09N.RES

Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:42:37 2014
Response via : Multiple Level Calibration



(1) Fluorobenzene #1 (I)

6.13min 200.0000000 ppb m

response 293554262

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 37.D\FID1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 37.D\FID2B.CH
Acq On : 8-21-2014 01:05:28 PM Operator: 621
Sample : STD BTEX .5 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:22 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

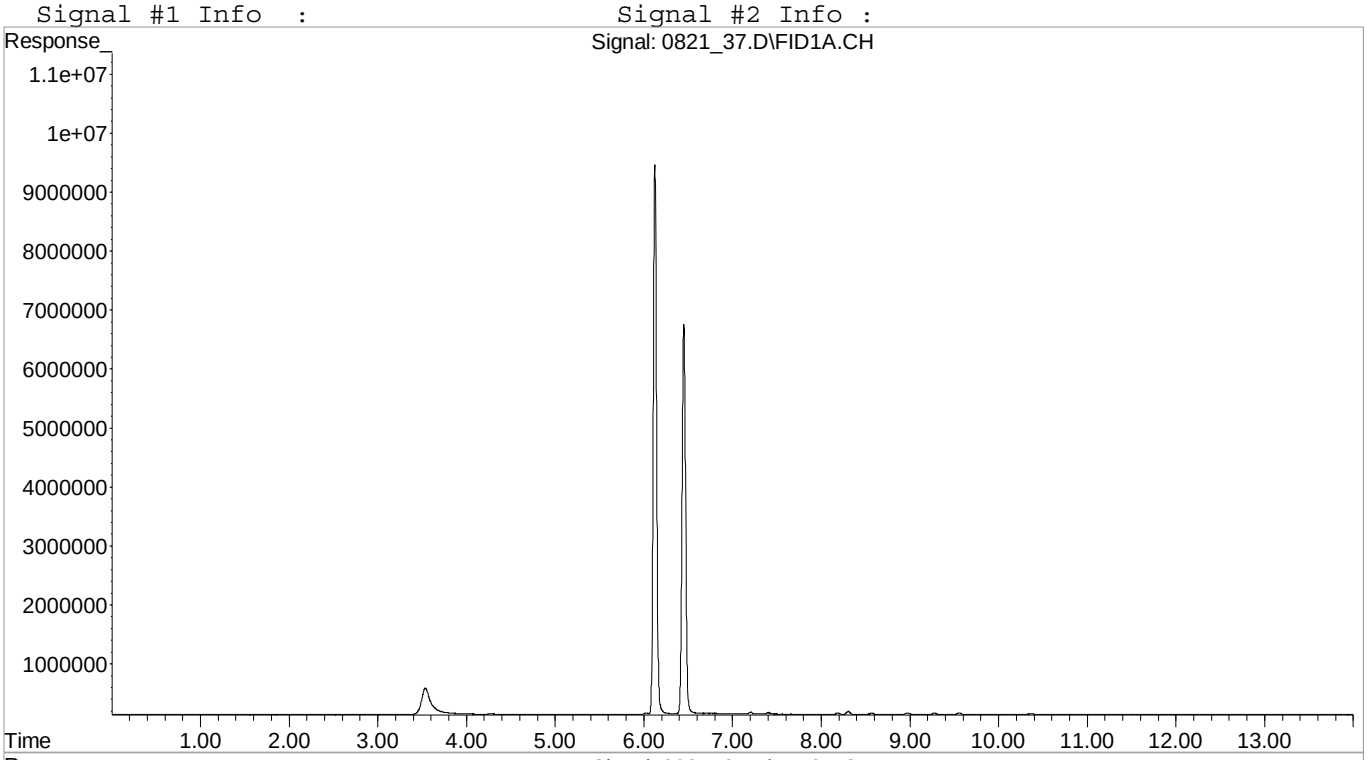
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1087810529	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	576522688	204.3273441	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 102.16%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	1302421	0.5168779	ppb
12) T,M benzene	6.02	4531096	0.5026694	ppb
13) T,M toluene	7.20	3273263	0.3874851	ppb
14) T,M ethylbenzene	8.18	2779013	0.3776585	ppb
15) T,M m&p-xylene	8.30	6672510	0.7813658	ppb
16) T,M o-xylene	8.57	2883681	0.3872340	ppb
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

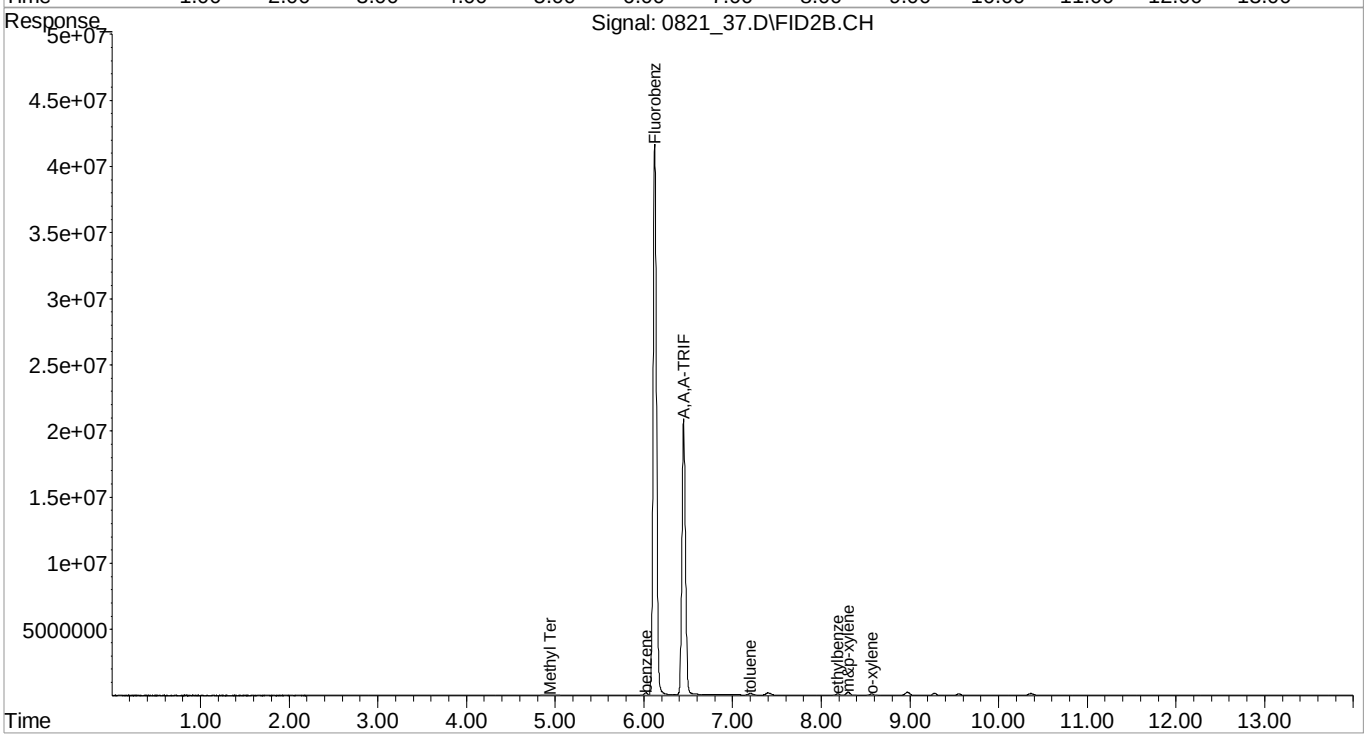
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 37.D\FID1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 37.D\FID2B.CH
Acq On : 8-21-2014 01:05:28 PM Operator: 621
Sample : STD BTEX .5 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 38.D\FID1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 38.D\FID2B.CH
Acq On : 8-21-2014 01:26:31 PM Operator: 621
Sample : STD BTEX 1 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:24 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

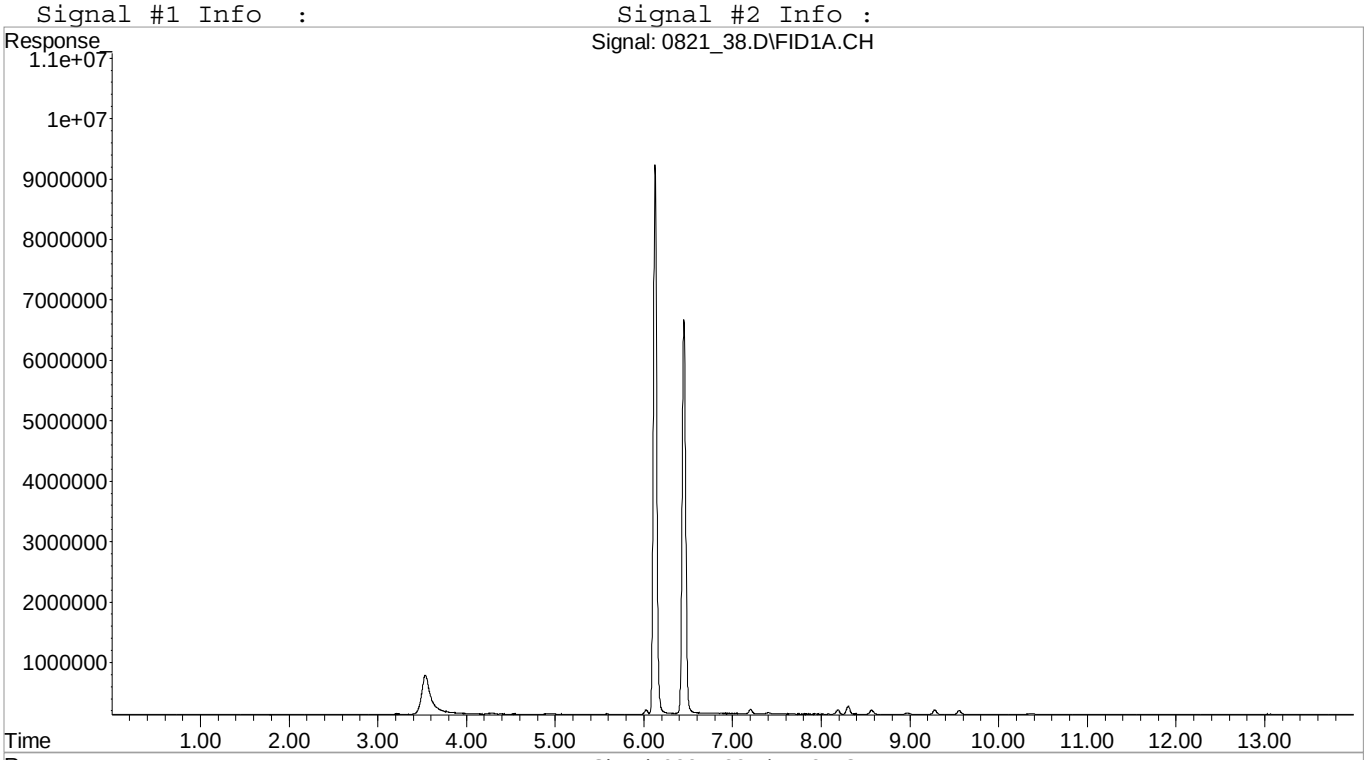
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1055365857	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	566589035	206.9800422	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 103.49%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	3478439	1.4228892	ppb
12) T,M benzene	6.02	12100839	1.3837093	ppb
13) T,M toluene	7.20	8865590	1.0817627	ppb
14) T,M ethylbenzene	8.18	7587070	1.0627545	ppb
15) T,M m&p-xylene	8.30	18148252	2.1905347	ppb
16) T,M o-xylene	8.57	7712874	1.0675610	ppb
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

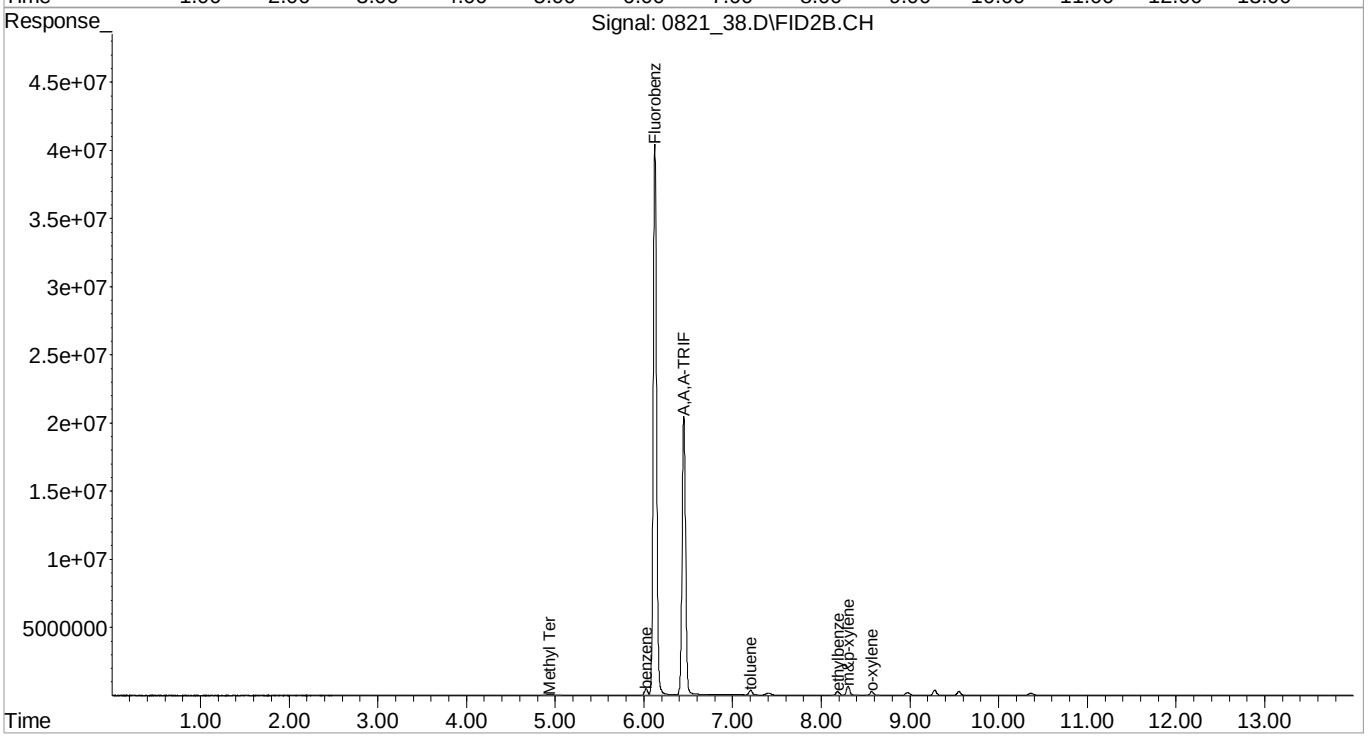
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 38.D\FID1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 38.D\FID2B.CH
Acq On : 8-21-2014 01:26:31 PM Operator: 621
Sample : STD BTEX 1 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 39.D\FID1A.CH  Vial: 39
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 39.D\FID2B.CH
Acq On    : 8-21-2014 01:47:34 PM                    Operator: 621
Sample    : STD BTEX 5 ppb 14G09861                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:27 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

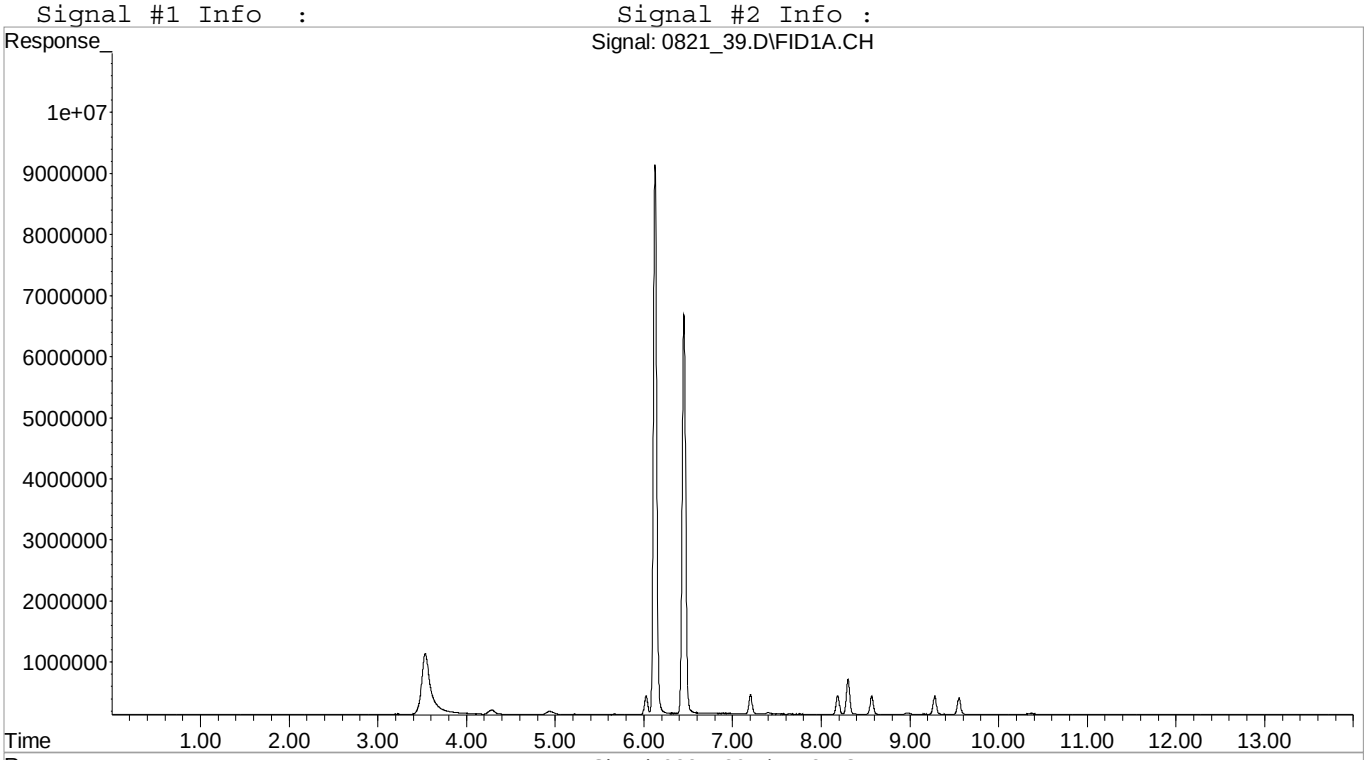
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1039654763	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	564091815	209.1818484	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 104.59%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	14525781	6.0317048	ppb
12) T,M benzene	6.02	43648156	5.0665130	ppb
13) T,M toluene	7.20	38066236	4.7149619	ppb
14) T,M ethylbenzene	8.18	32882452	4.6755959	ppb
15) T,M m&p-xylene	8.30	78144839	9.5747962	ppb
16) T,M o-xylene	8.57	33180029	4.6619448	ppb
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

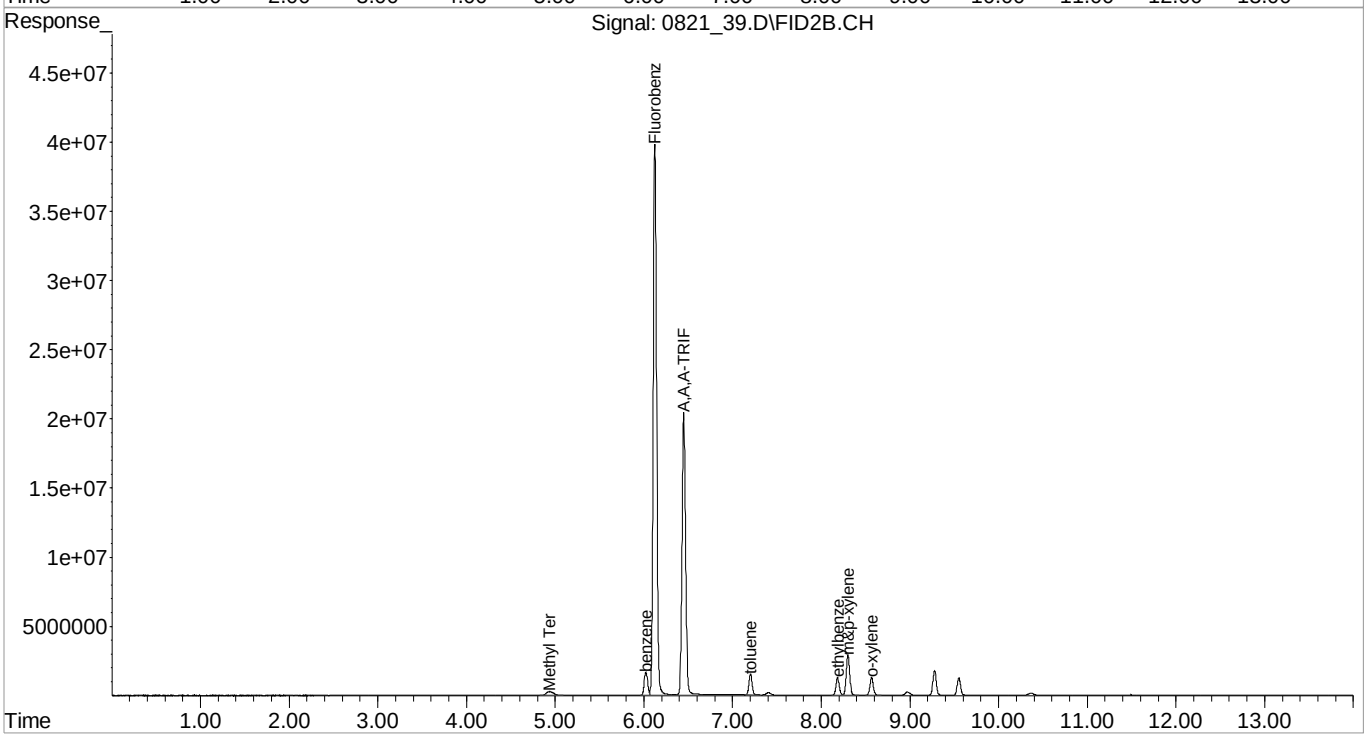
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 39.D\FID1A.CH Vial: 39
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 39.D\FID2B.CH
Acq On : 8-21-2014 01:47:34 PM Operator: 621
Sample : STD BTEX 5 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:34 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 40.D\FID1A.CH  Vial: 40
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 40.D\FID2B.CH
Acq On    : 8-21-2014 02:08:36 PM                    Operator: 621
Sample    : STD BTEX 10 ppb 14G09861                 Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:29 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

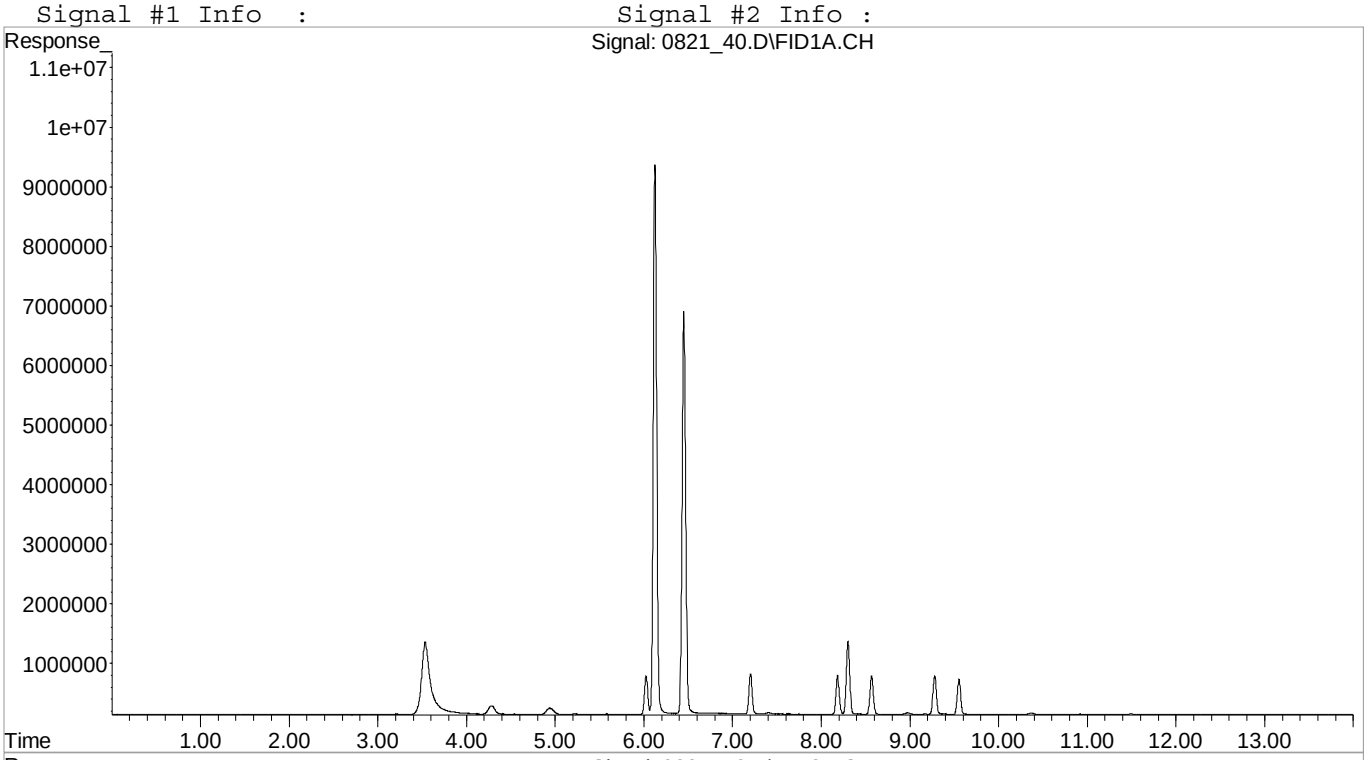
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1074890673	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	589388433	211.3978954	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 105.70%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	31409906	12.6151401	ppb
12) T,M benzene	6.02	89071143	10.0001185	ppb
13) T,M toluene	7.20	83491018	10.0023689	ppb
14) T,M ethylbenzene	8.18	72536863	9.9759990	ppb
15) T,M m&p-xylene	8.30	171692246	20.3472058	ppb
16) T,M o-xylene	8.57	73215679	9.9499137	ppb
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

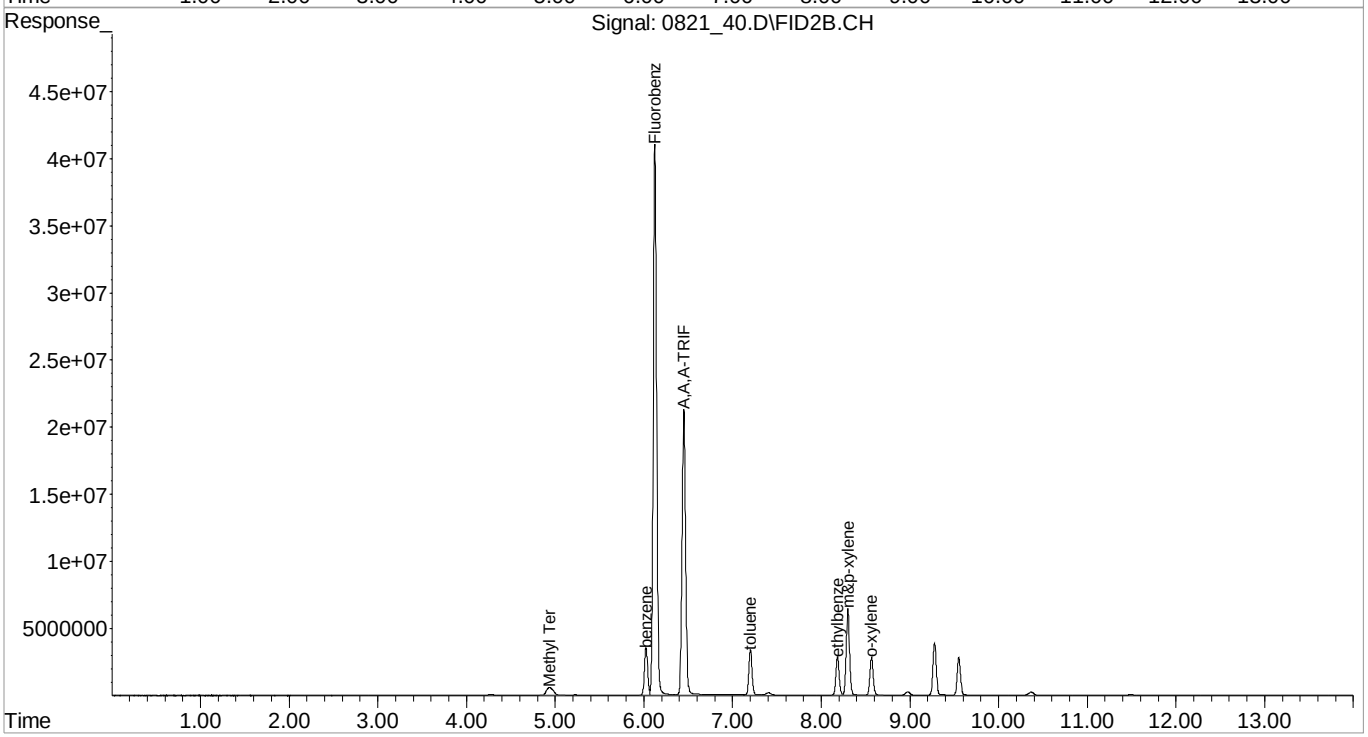
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 40.D\FID1A.CH Vial: 40
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 40.D\FID2B.CH
Acq On : 8-21-2014 02:08:36 PM Operator: 621
Sample : STD BTEX 10 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:34 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 41.D\FID1A.CH  Vial: 41
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 41.D\FID2B.CH
Acq On    : 8-21-2014 02:29:37 PM                    Operator: 621
Sample    : STD BTEX 25 ppb 14G09861                 Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:32 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

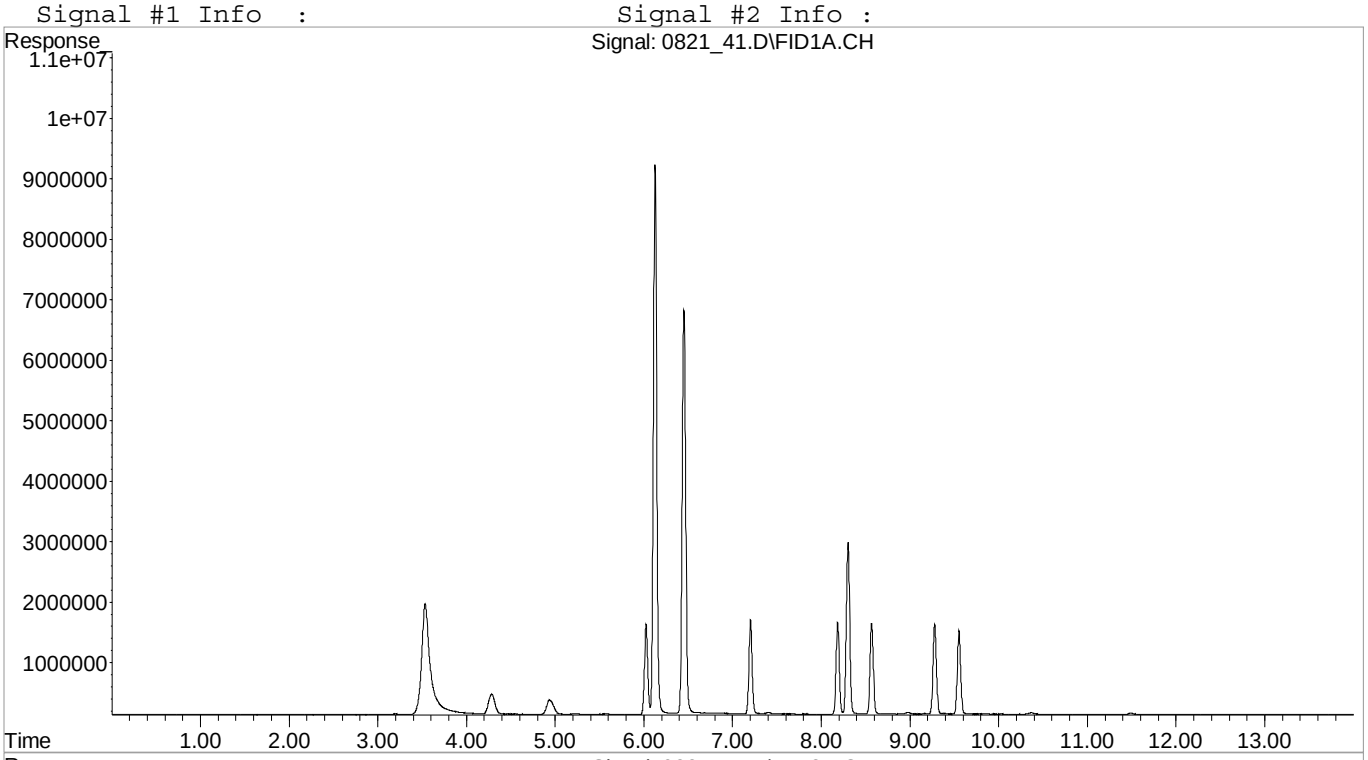
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1060525954	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	582832455	211.8779546	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 105.94%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	64671306	26.3257084	ppb
12) T,M benzene	6.02	212111027	24.1365035	ppb
13) T,M toluene	7.20	198922415	24.1540425	ppb
14) T,M ethylbenzene	8.18	173499570	24.1846064	ppb
15) T,M m&p-xylene	8.30	406308513	48.8037293	ppb
16) T,M o-xylene	8.57	174512986	24.0373154	ppb
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

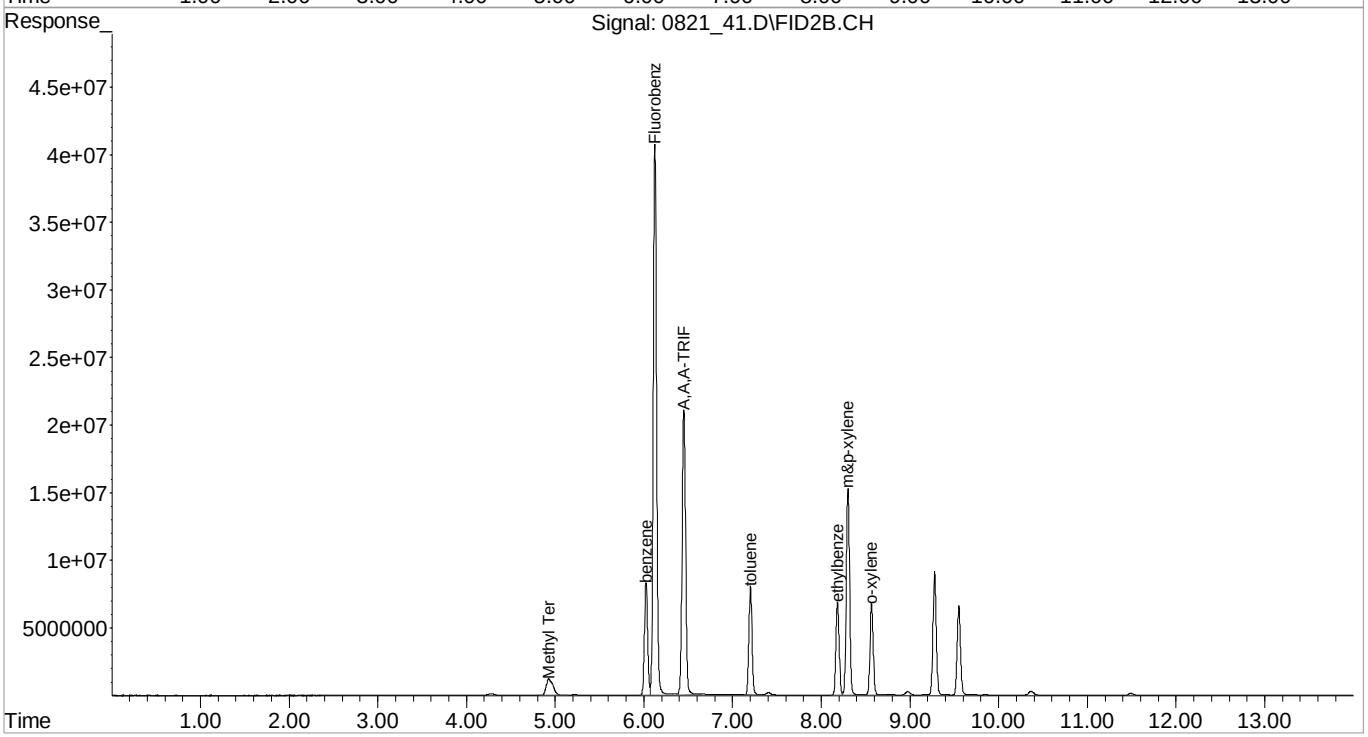
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 41.D\FID1A.CH  Vial: 41
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 41.D\FID2B.CH
Acq On    : 8-21-2014 02:29:37 PM                    Operator: 621
Sample    : STD BTEX 25 ppb 14G09861                 Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:36 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 42.D\FID1A.CH  Vial: 42
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 42.D\FID2B.CH
Acq On    : 8-21-2014 02:50:37 PM                    Operator: 621
Sample    : MSTD BTEX 50 ppb 14G09861                Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:35 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

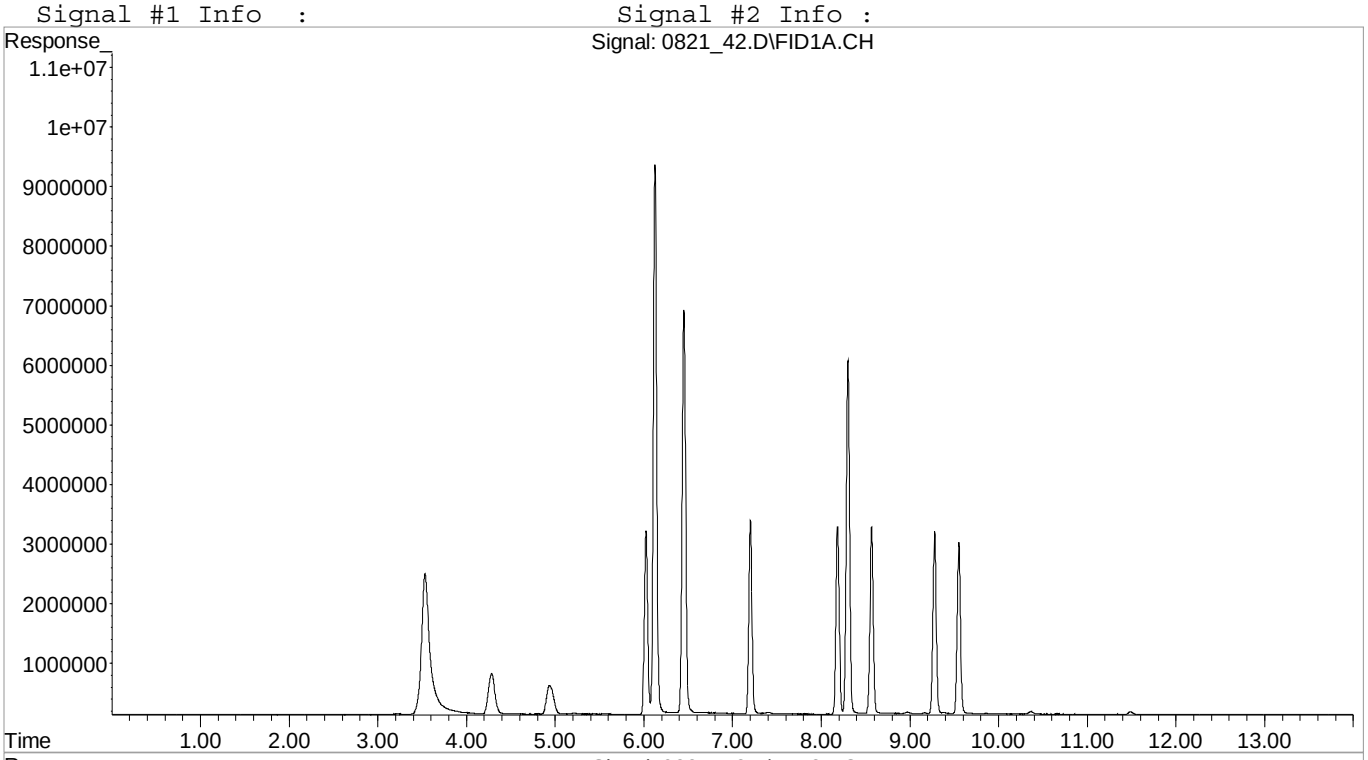
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	0.00	0	N.D.	ppb	d
9) I Fluorobenzene #2	6.12	1080530001	200.0000000	ppb	
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#		
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	588562759	210.0000000	ppb	
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 105.00%		
Target Compounds					
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm	
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm	
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm	
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm	
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm	
11) T,M Methyl Tert-Butyl Ether	4.94	125146036	50.0000000	ppb	
12) T,M benzene	6.02	447686937	50.0000000	ppb	
13) T,M toluene	7.20	419545851	50.0000000	ppb	
14) T,M ethylbenzene	8.18	365464259	50.0000000	ppb	
15) T,M m&p-xylene	8.30	848239398	100.0000000	ppb	
16) T,M o-xylene	8.57	369851445	50.0000000	ppb	
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

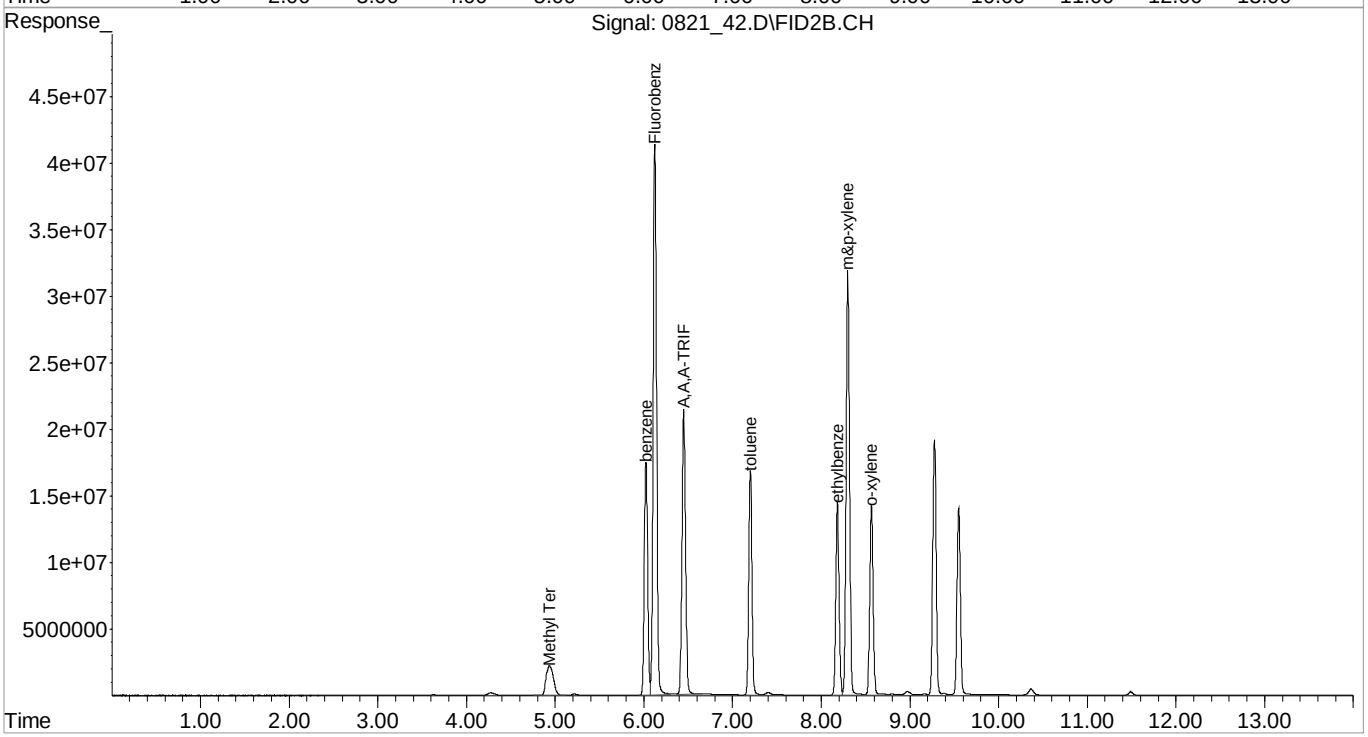
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 42.D\FID1A.CH  Vial: 42
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 42.D\FID2B.CH
Acq On    : 8-21-2014 02:50:37 PM                    Operator: 621
Sample    : MSTD BTEX 50 ppb 14G09861                Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:36 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 43.D\FID1A.CH Vial: 43
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 43.D\FID2B.CH
Acq On : 8-21-2014 03:11:45 PM Operator: 621
Sample : STD BTEX 100 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:37 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

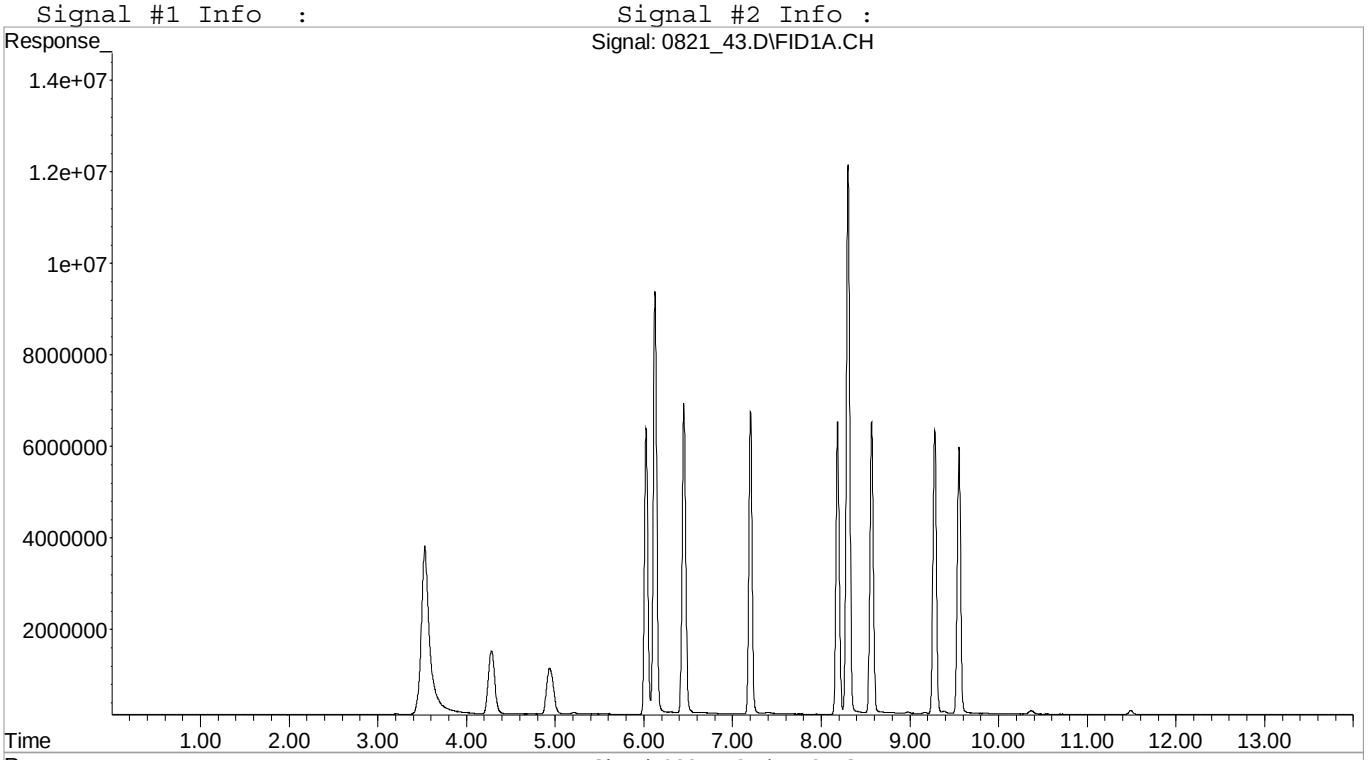
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1082949277	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	583703105	207.8008087	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 103.90%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	253004871	100.8580355	ppb
12) T,M benzene	6.02	912087785	101.6391291	ppb
13) T,M toluene	7.20	852240518	101.3401320	ppb
14) T,M ethylbenzene	8.18	743063085	101.4330520	ppb
15) T,M m&p-xylene	8.30	1708044542	200.9136601	ppb
16) T,M o-xylene	8.57	752102530	101.4491581	ppb
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

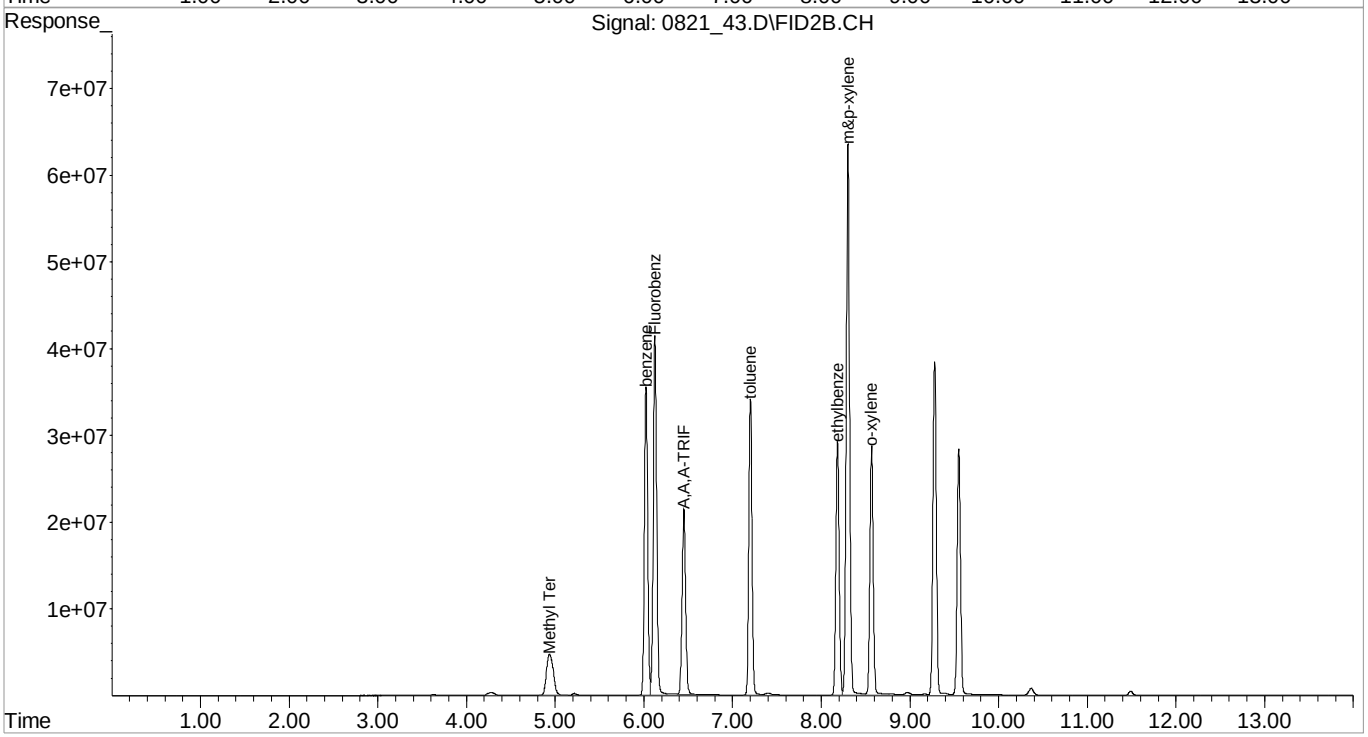
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 43.D\FID1A.CH Vial: 43
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 43.D\FID2B.CH
Acq On : 8-21-2014 03:11:45 PM Operator: 621
Sample : STD BTEX 100 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:36 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 44.D\FID1A.CH  Vial: 44
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 44.D\FID2B.CH
Acq On    : 8-21-2014 03:32:54 PM                    Operator: 621
Sample    : STD BTEX 150 ppb 14G09861                Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:40 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

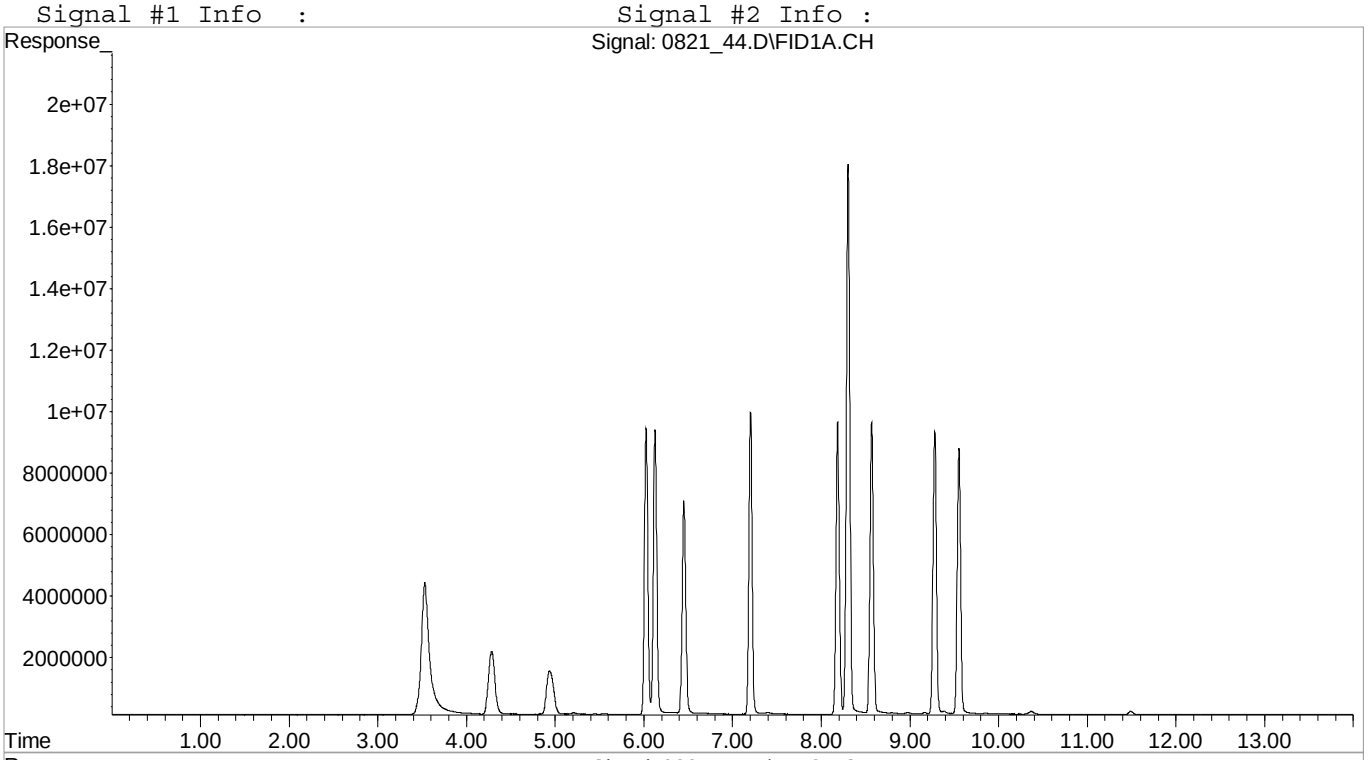
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Fluorobenzene #1	0.00	0	N.D.	ppb	d
9) I	Fluorobenzene #2	6.12	1085843726	200.0000000	ppb	
	System Monitoring Compounds					
7) S	A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb	d
Spiked Amount	200.0000 Range 59 - 128		Recovery	= 0.00%#		
10) S	A,A,A-TRIFLUOROTOLUENE(PID	6.45	602437663	213.8986947	ppb	
Spiked Amount	200.0000 Range 54 - 144		Recovery	= 106.95%		
	Target Compounds					
2) H,M	TPHG C4 - C12	0.00	0	N.D.	ppm	
3) H,M	TPHG C5 - C12	0.00	0	N.D.	ppm	
4) H,M	TPHG C6 - C12	0.00	0	N.D.	ppm	
5) H,M	TPHGAK C6 to C10	0.00	0	N.D.	ppm	
6) h,m	TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm	
11) T,M	Methyl Tert-Butyl Ether	4.94	354618786	140.9886493	ppb	
12) T,M	benzene	6.02	1356014217	150.7055783	ppb	
13) T,M	toluene	7.20	1263361720	149.8262090	ppb	
14) T,M	ethylbenzene	8.18	1101682736	149.9861441	ppb	
15) T,M	m&p-xylene	8.30	2228655517	261.4532278	ppb	
16) T,M	o-xylene	8.57	1112747802	149.6955646	ppb	
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

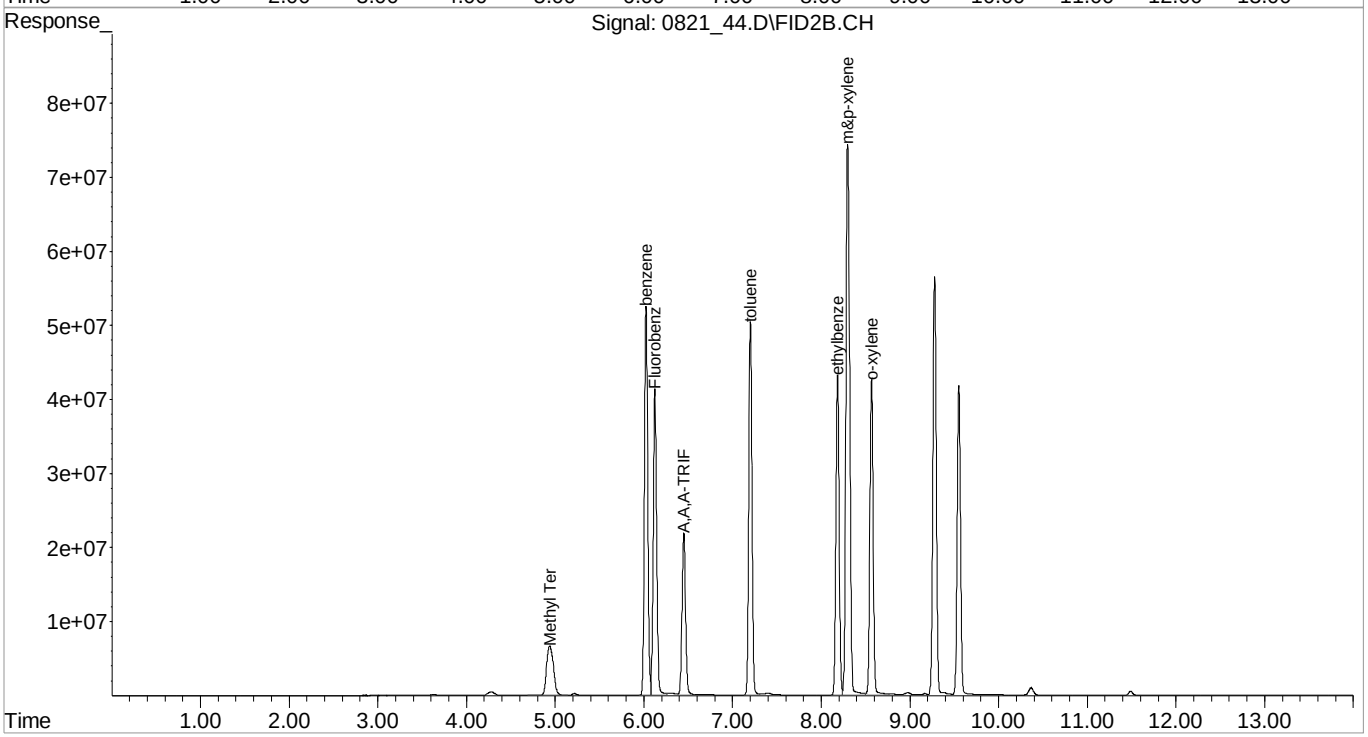
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 44.D\FID1A.CH  Vial: 44
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 44.D\FID2B.CH
Acq On    : 8-21-2014 03:32:54 PM                    Operator: 621
Sample    : STD BTEX 150 ppb 14G09861                Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:37 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 45.D\FID1A.CH Vial: 45
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 45.D\FID2B.CH
Acq On : 8-21-2014 03:54:00 PM Operator: 621
Sample : STD BTEX 200 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:43 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

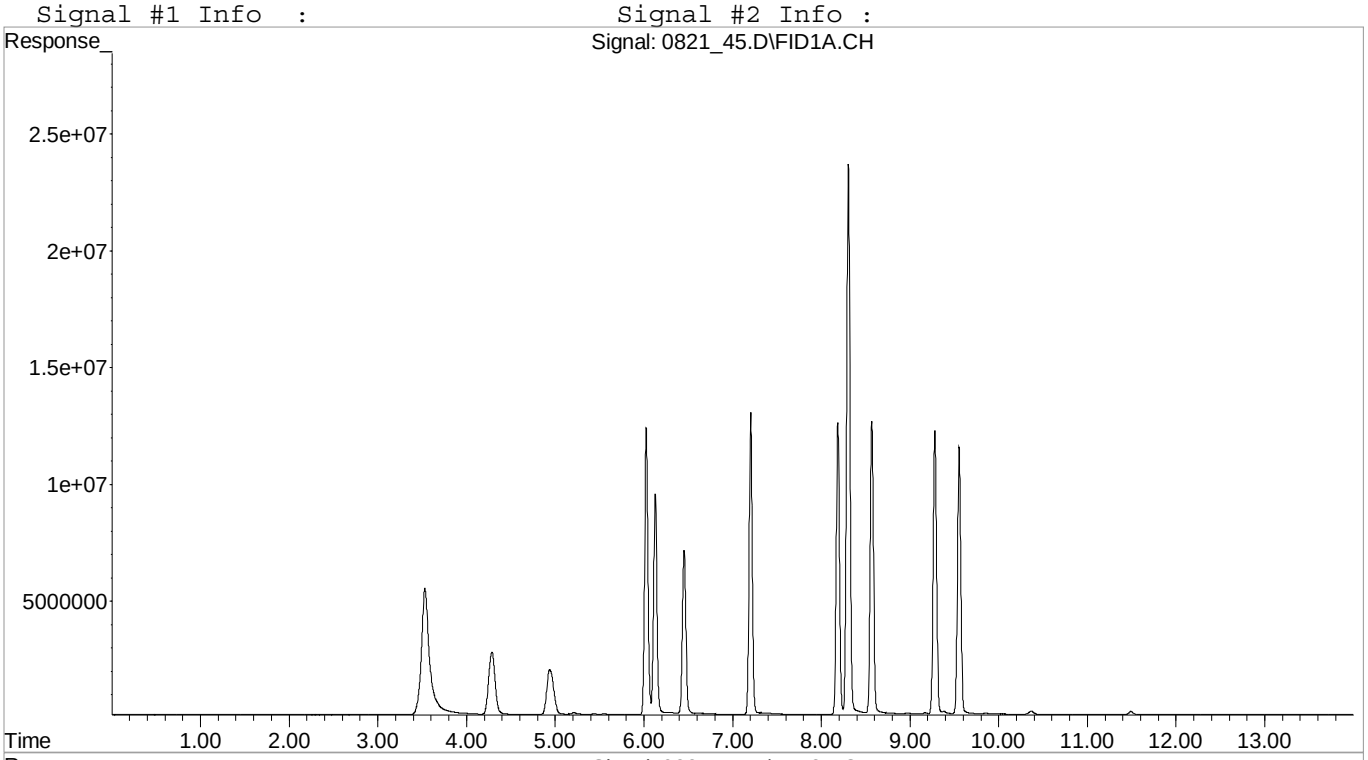
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.13	1102017007	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	601994465	210.6044515	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 105.30%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	475153981	186.1383300	ppb
12) T,M benzene	6.02	1776343329	194.5230291	ppb
13) T,M toluene	7.20	1636090731	191.1817756	ppb
14) T,M ethylbenzene	8.18	1439527971	193.1050953	ppb
15) T,M m&p-xylene	8.29	2547386927	294.4591187	ppb
16) T,M o-xylene	8.57	1457278123	193.1673234	ppb
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

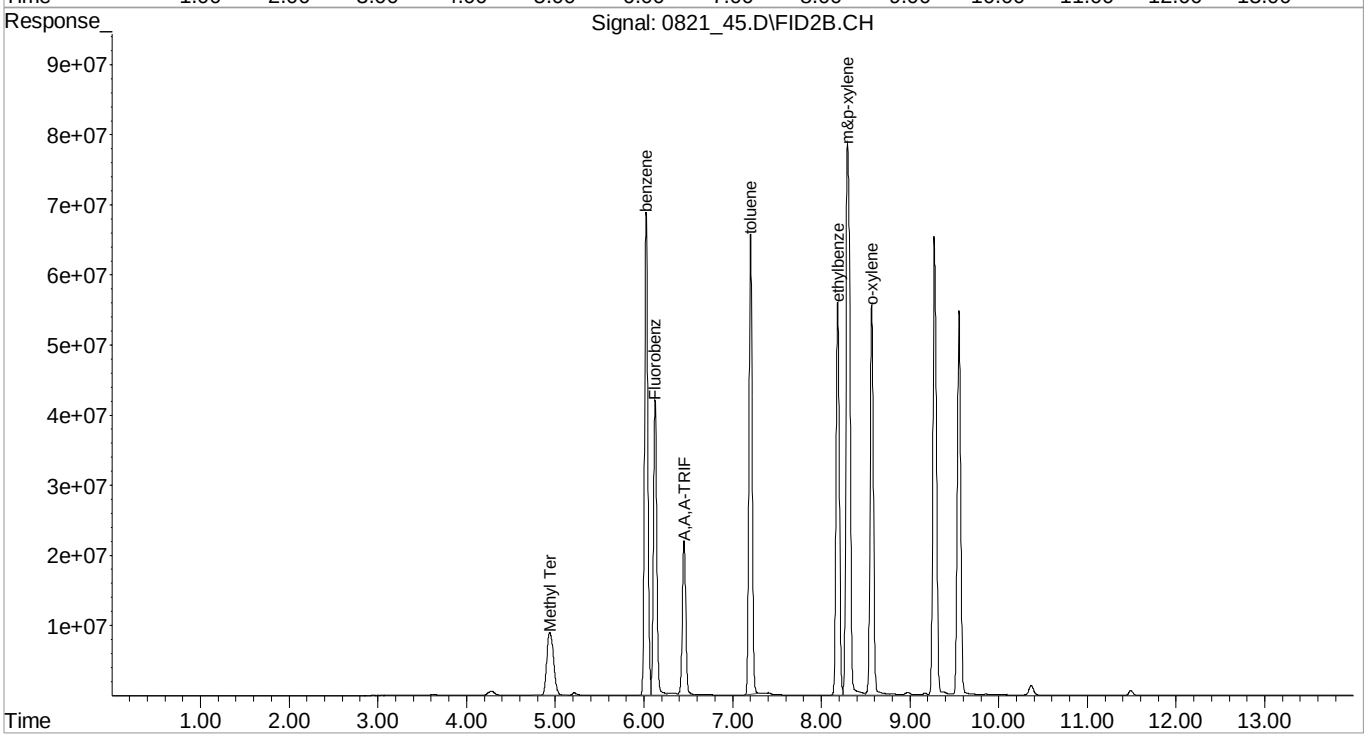
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 45.D\FID1A.CH Vial: 45
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 45.D\FID2B.CH
Acq On : 8-21-2014 03:54:00 PM Operator: 621
Sample : STD BTEX 200 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:37 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 46.D\FID1A.CH Vial: 46
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 46.D\FID2B.CH
Acq On : 8-21-2014 04:15:05 PM Operator: 621
Sample : STD BTEX 250 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:45 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

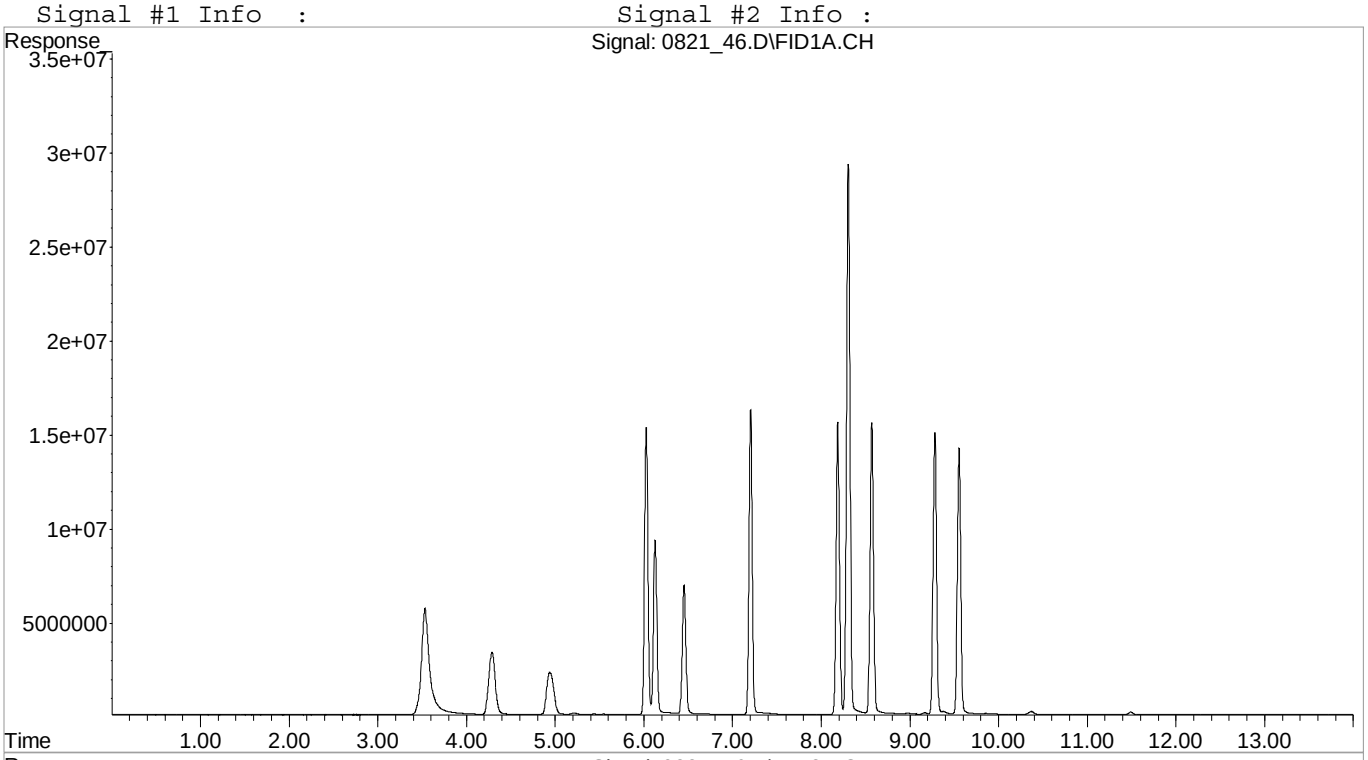
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.13	1087047462	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	589041724	208.9108026	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 104.46%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	564745922	224.2819558	ppb
12) T,M benzene	6.02	2070633664	229.8725826	ppb
13) T,M toluene	7.20	1900911257	225.1856644	ppb
14) T,M ethylbenzene	8.18	1734304554	235.8515747	ppb
15) T,M m&p-xylene	8.30	2784309396	326.2776876	ppb
16) T,M o-xylene	8.56	1690918501	227.2237292	ppb
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

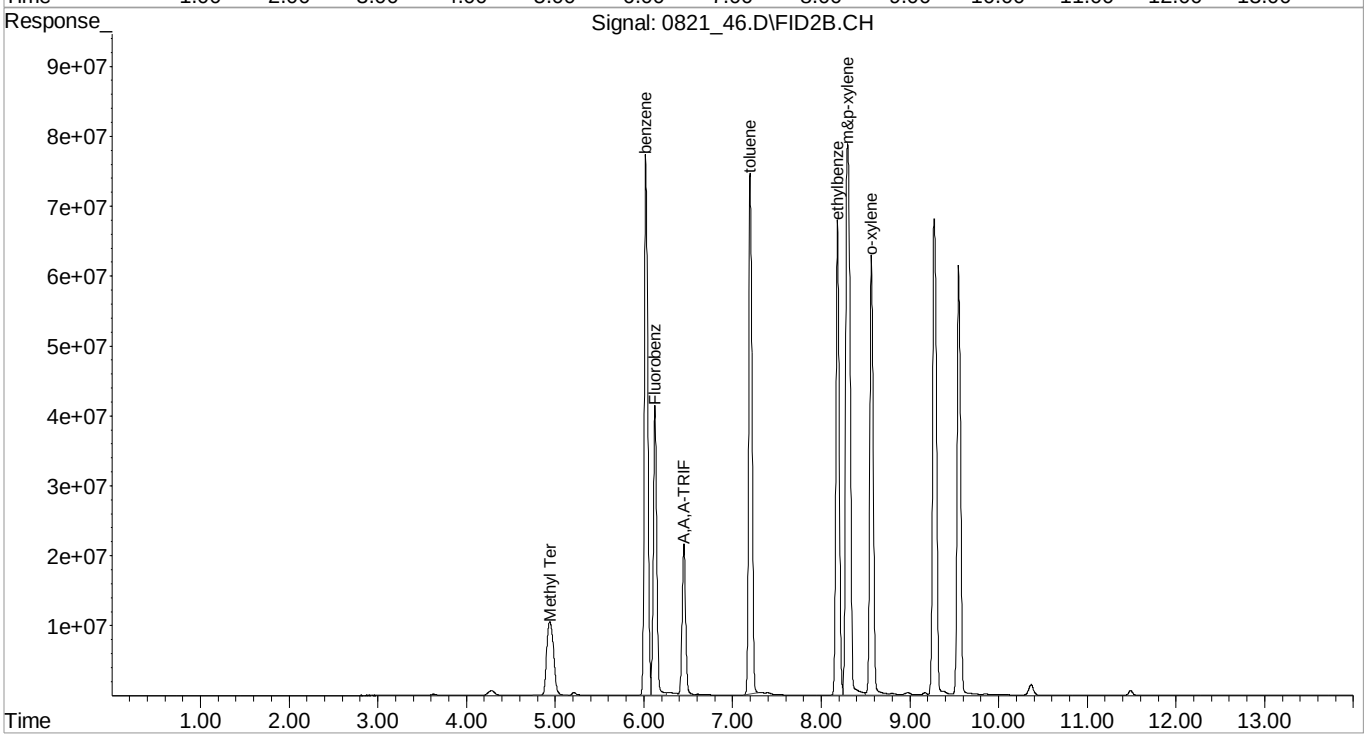
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 46.D\FID1A.CH Vial: 46
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 46.D\FID2B.CH
Acq On : 8-21-2014 04:15:05 PM Operator: 621
Sample : STD BTEX 250 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:37 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46:03 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

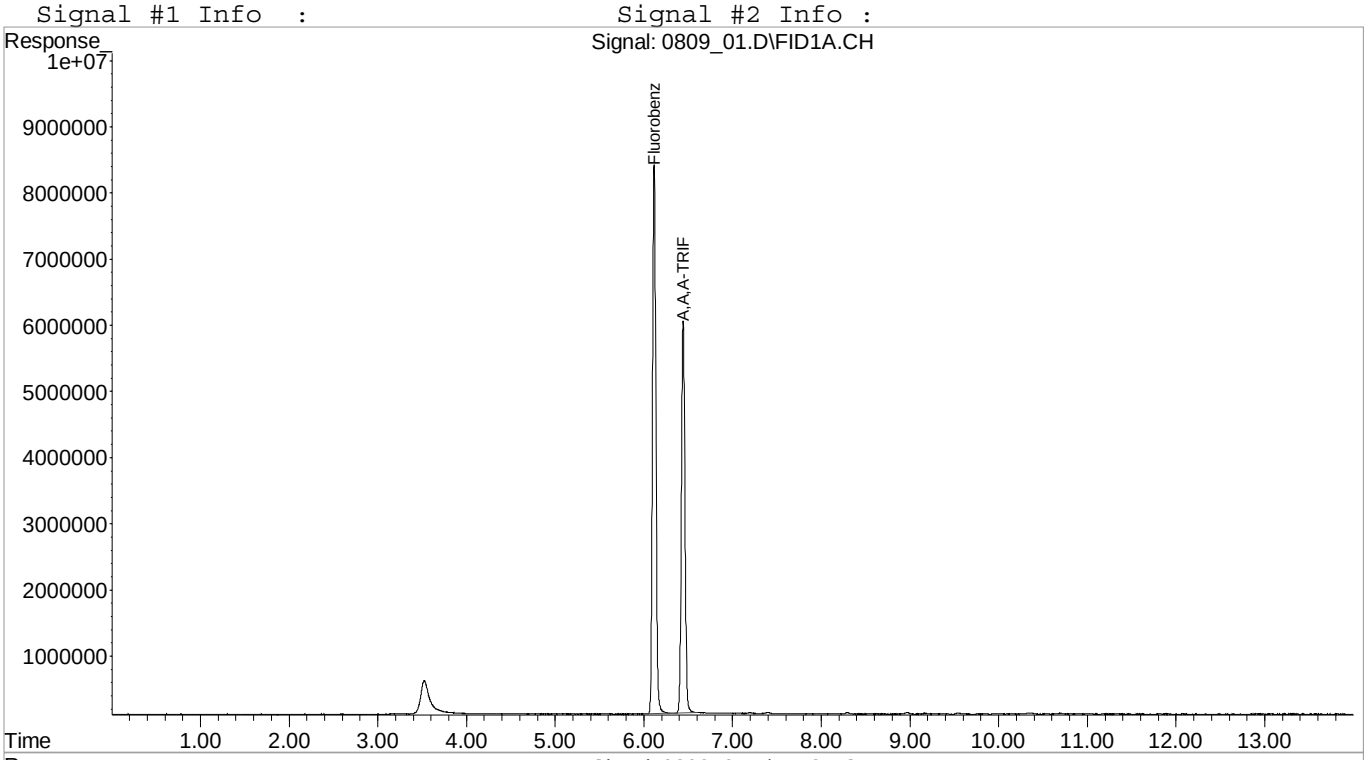
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	216690368	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1014599287	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	163479660	200.9622481	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	541716871	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	12658	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	50736698	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40284096	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28389519	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32094818	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	6578	NoCal	ppb
12) T,M benzene	6.01	454398	NoCal	ppb
13) T,M toluene	7.19	1957888	NoCal	ppb
14) T,M ethylbenzene	8.18	590024	NoCal	ppb
15) T,M m&p-xylene	8.29	2828513	NoCal	ppb
16) T,M o-xylene	8.56	944648	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	913653	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2635864	NoCal	ppb
19) T,M Naphthalene	11.49	66156	NoCal	ppb

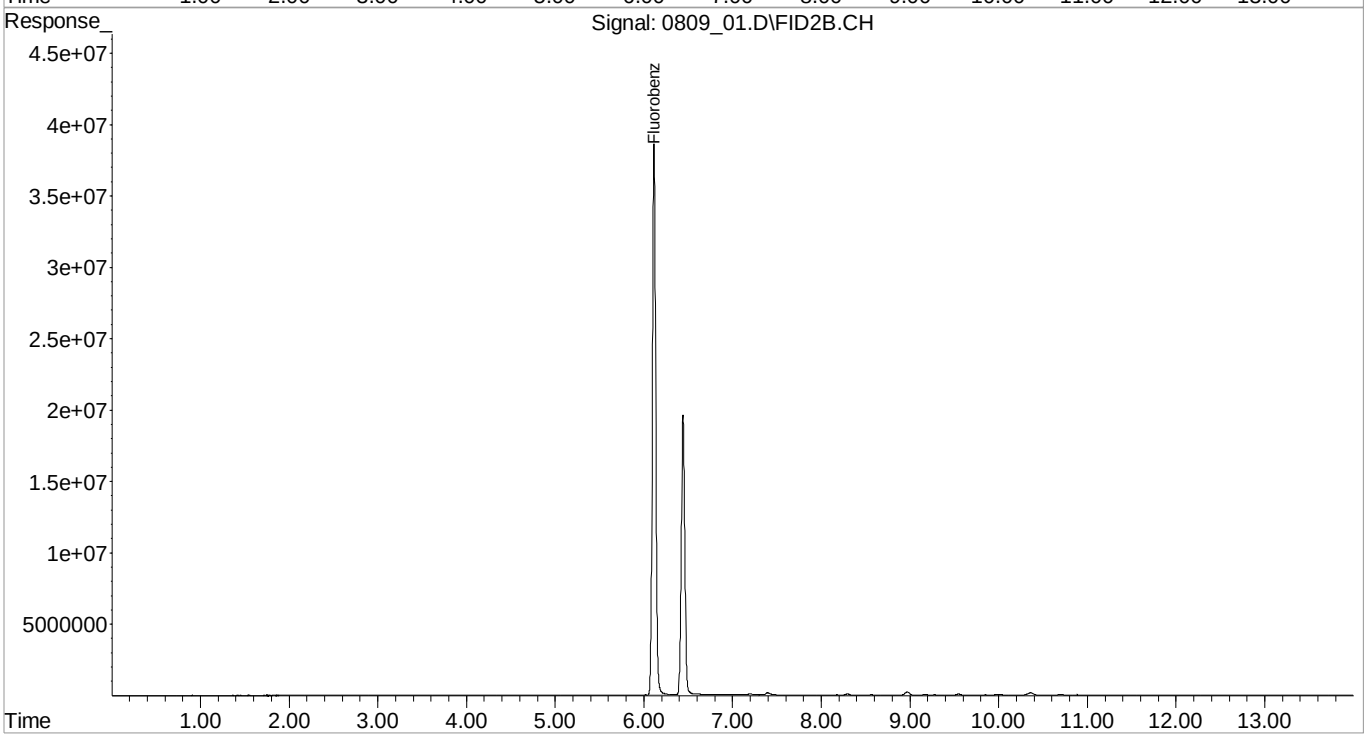
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH  Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On    : 09 Aug 2014  10:11 pm                    Operator: 621
Sample    : INSTBLK BTEX                             Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46:03 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

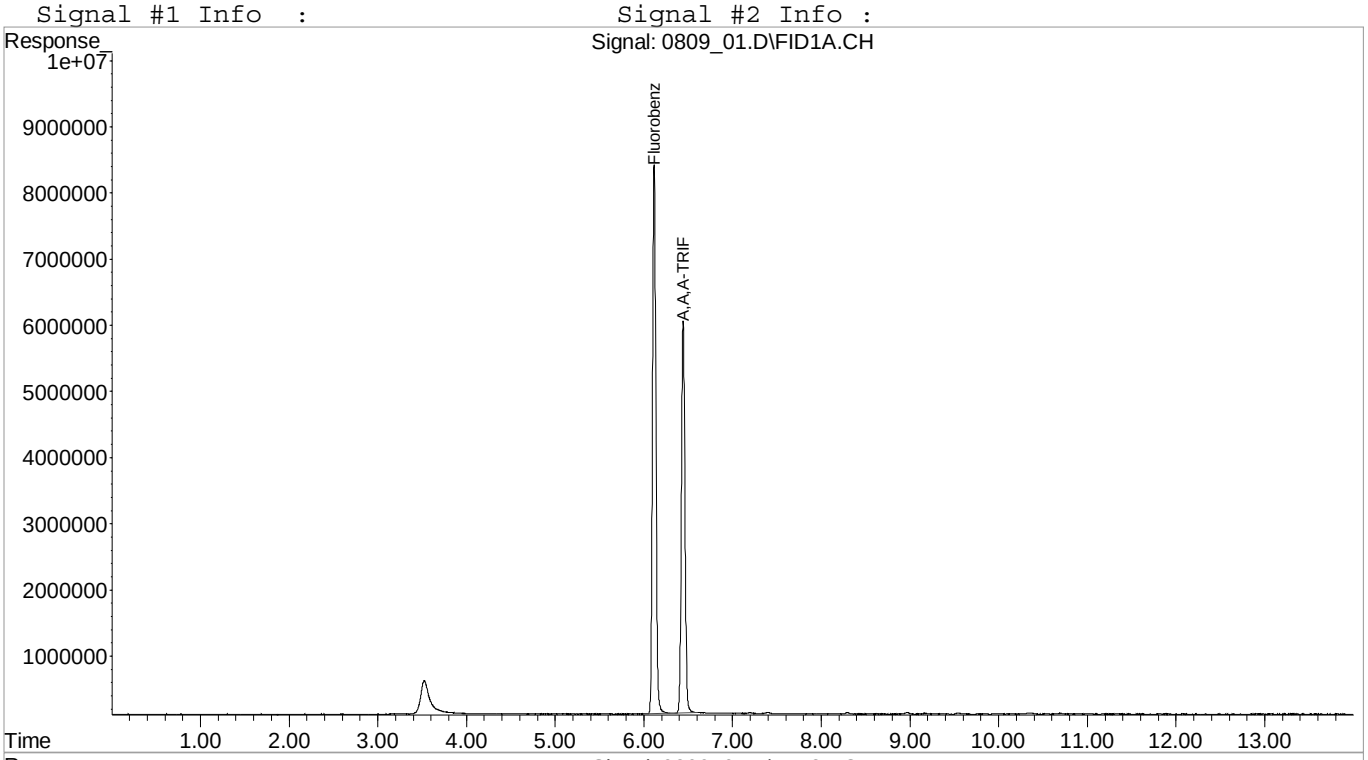
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	216690368	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1014599287	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	163479660	200.9622481	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	541716871	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	12658	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	50736698	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40284096	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28389519	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32094818	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	6578	NoCal	ppb
12) T,M benzene	6.01	454398	NoCal	ppb
13) T,M toluene	7.19	1957888	NoCal	ppb
14) T,M ethylbenzene	8.18	590024	NoCal	ppb
15) T,M m&p-xylene	8.29	2828513	NoCal	ppb
16) T,M o-xylene	8.56	944648	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	913653	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2635864	NoCal	ppb
19) T,M Naphthalene	11.49	66156	NoCal	ppb

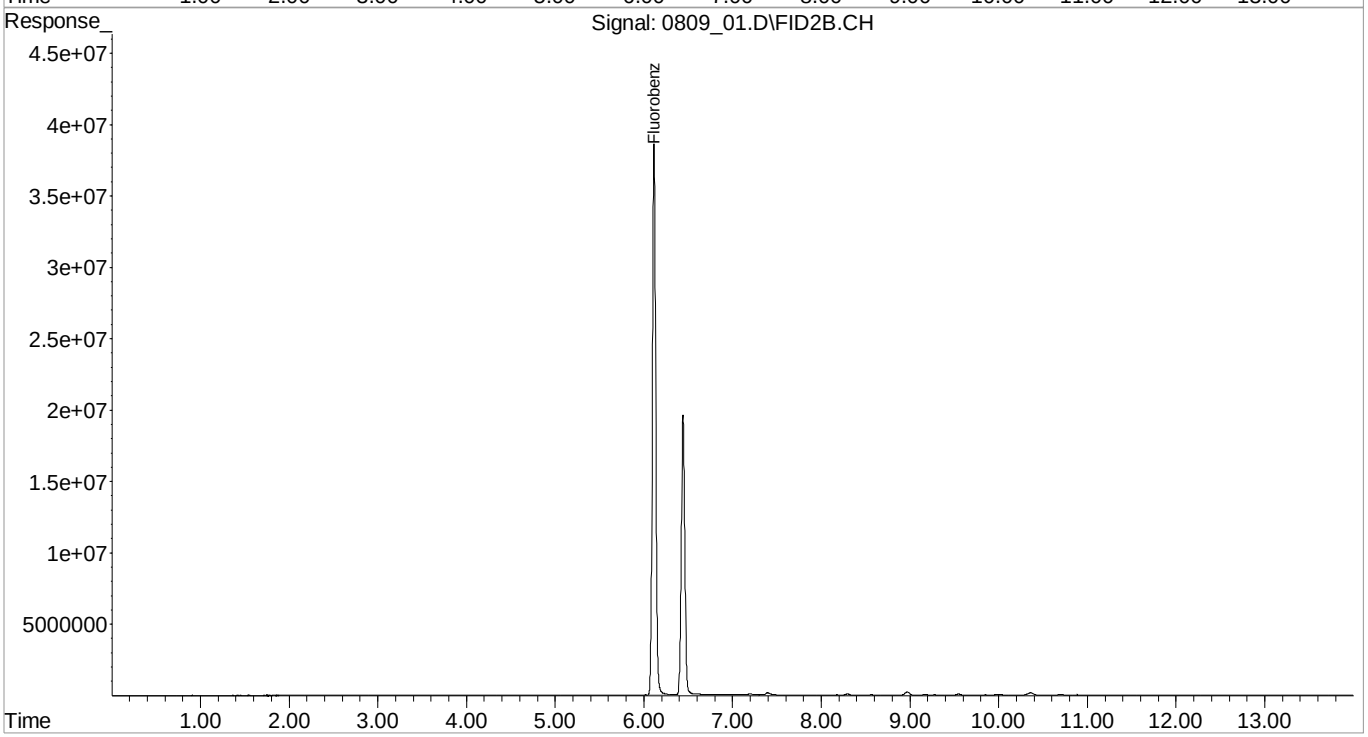
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID1A.CH  Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID2B.CH
Acq On    : 20 Aug 2014  11:01 pm                    Operator: 621
Sample    : INSTBLK                                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47:23 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.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	6.12	218888669	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1007552094	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	168431344	204.9698563	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	547107085	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7514	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	57901520	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	51896593	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	38599341	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	40279363	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	715735	NoCal	ppb
12) T,M benzene	6.02	2757851	NoCal	ppb
13) T,M toluene	7.20	2911691	NoCal	ppb
14) T,M ethylbenzene	8.18	2782577	NoCal	ppb
15) T,M m&p-xylene	8.30	6878785	NoCal	ppb
16) T,M o-xylene	8.56	2737549	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	581604	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2747043	NoCal	ppb
19) T,M Naphthalene	11.49	20767	NoCal	ppb

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID1A.CH  Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID2B.CH
Acq On    : 20 Aug 2014  11:01 pm                    Operator: 621
Sample    : INSTBLK                                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
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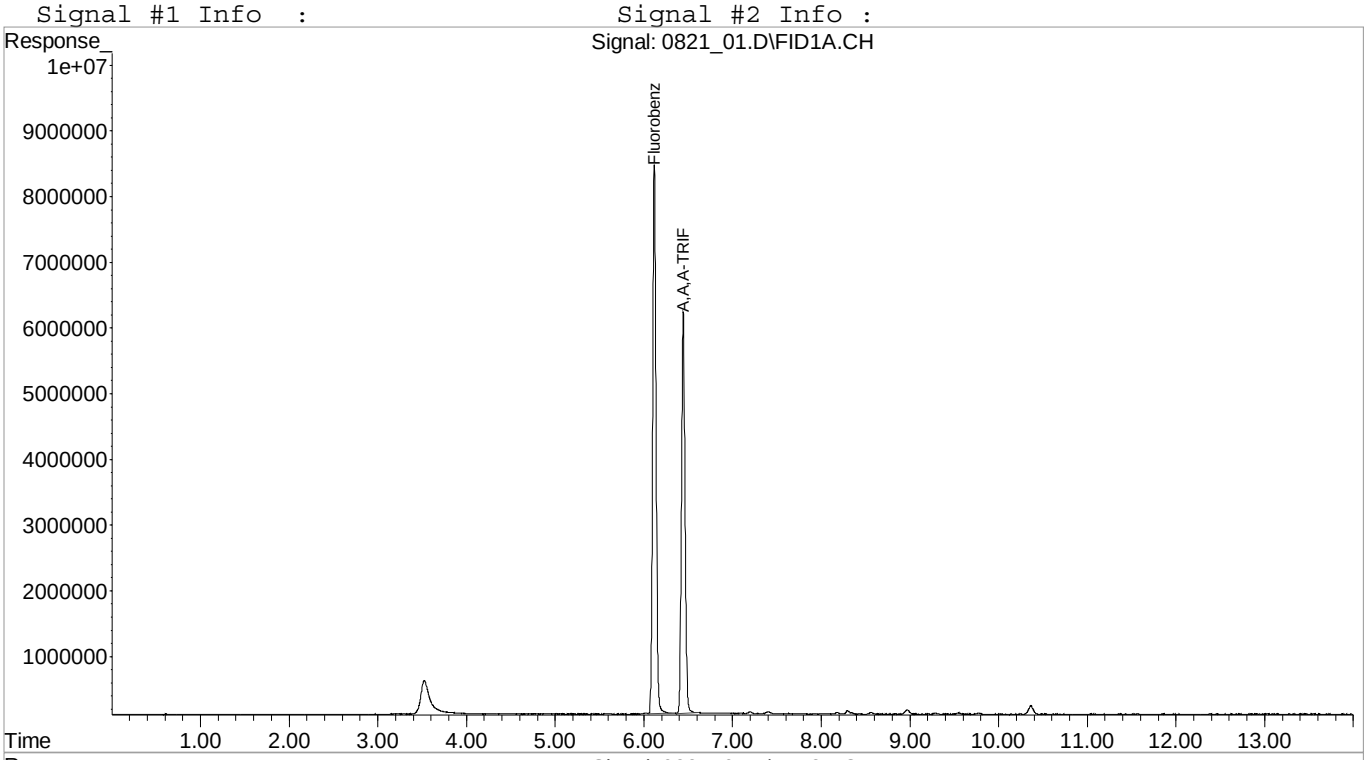
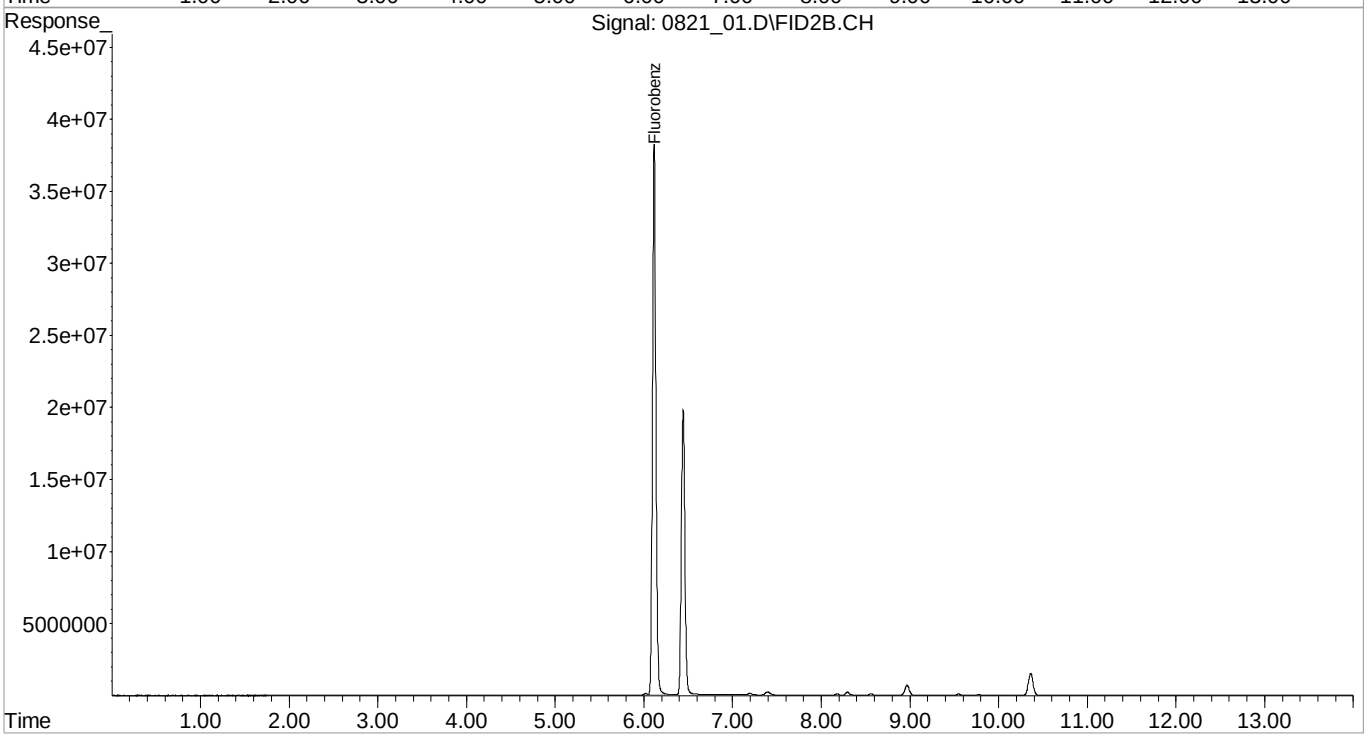




Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID2B.CH
Acq On : 20 Aug 2014 11:01 pm Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47:23 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

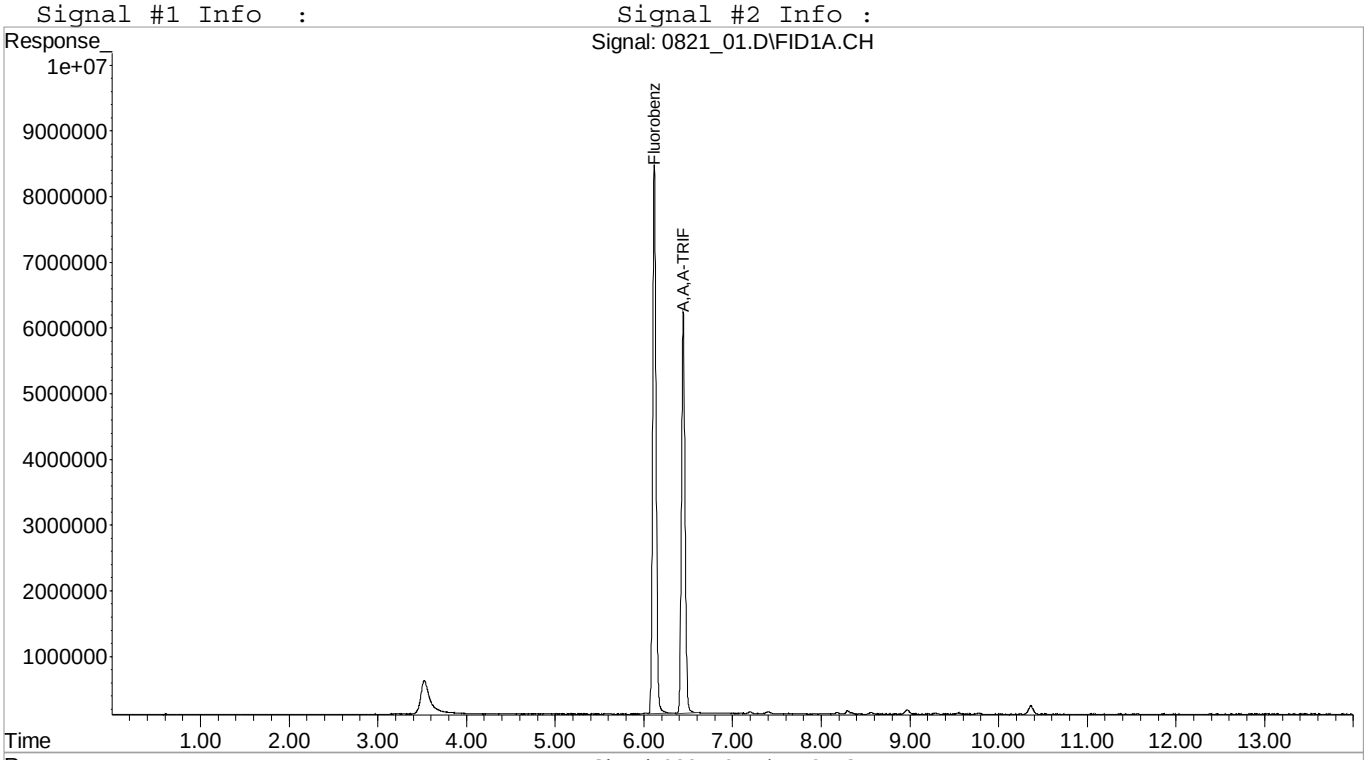
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	218888669	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1007552094	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	168431344	204.9698563	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	547107085	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7514	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	57901520	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	51896593	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	38599341	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	40279363	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	715735	NoCal	ppb
12) T,M benzene	6.02	2757851	NoCal	ppb
13) T,M toluene	7.20	2911691	NoCal	ppb
14) T,M ethylbenzene	8.18	2782577	NoCal	ppb
15) T,M m&p-xylene	8.30	6878785	NoCal	ppb
16) T,M o-xylene	8.56	2737549	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	581604	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2747043	NoCal	ppb
19) T,M Naphthalene	11.49	20767	NoCal	ppb

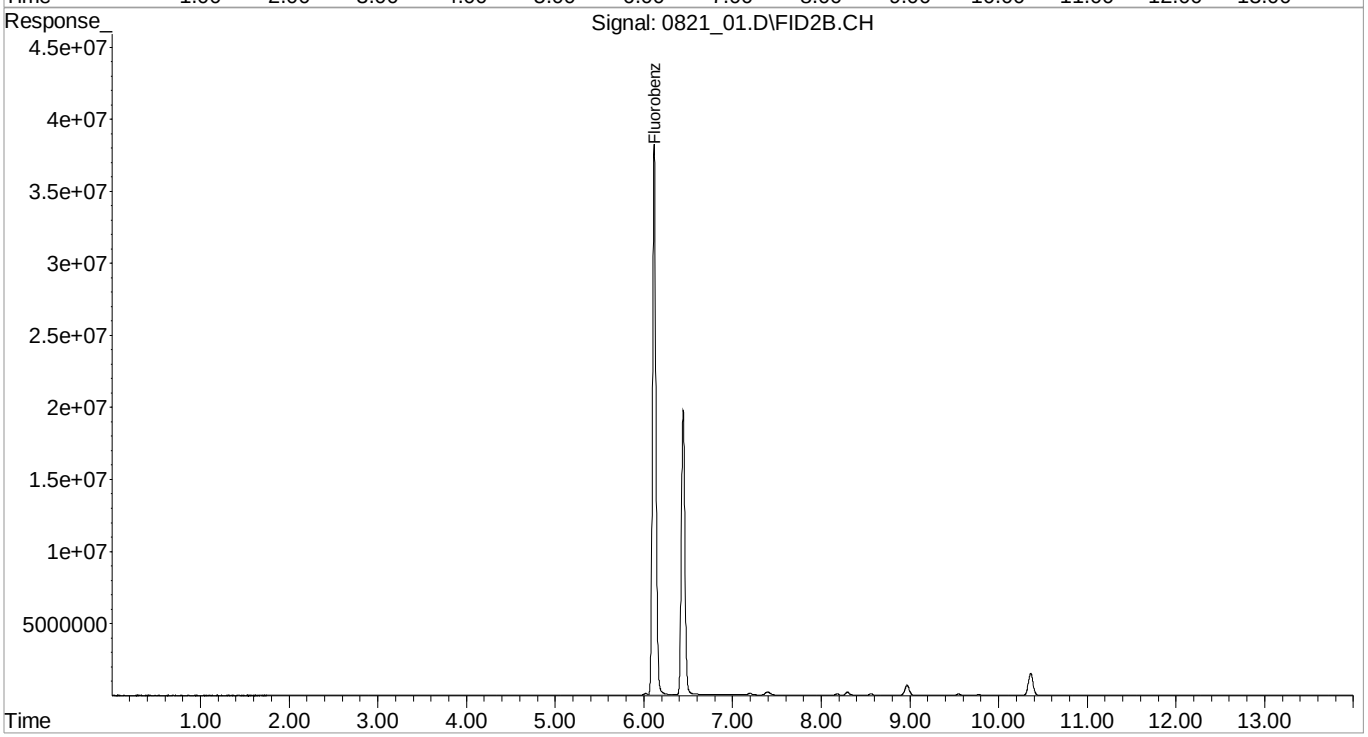
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID2B.CH
Acq On : 20 Aug 2014 11:01 pm Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID2B.CH
Acq On : 8-21-2014 01:53:59 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47:40 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

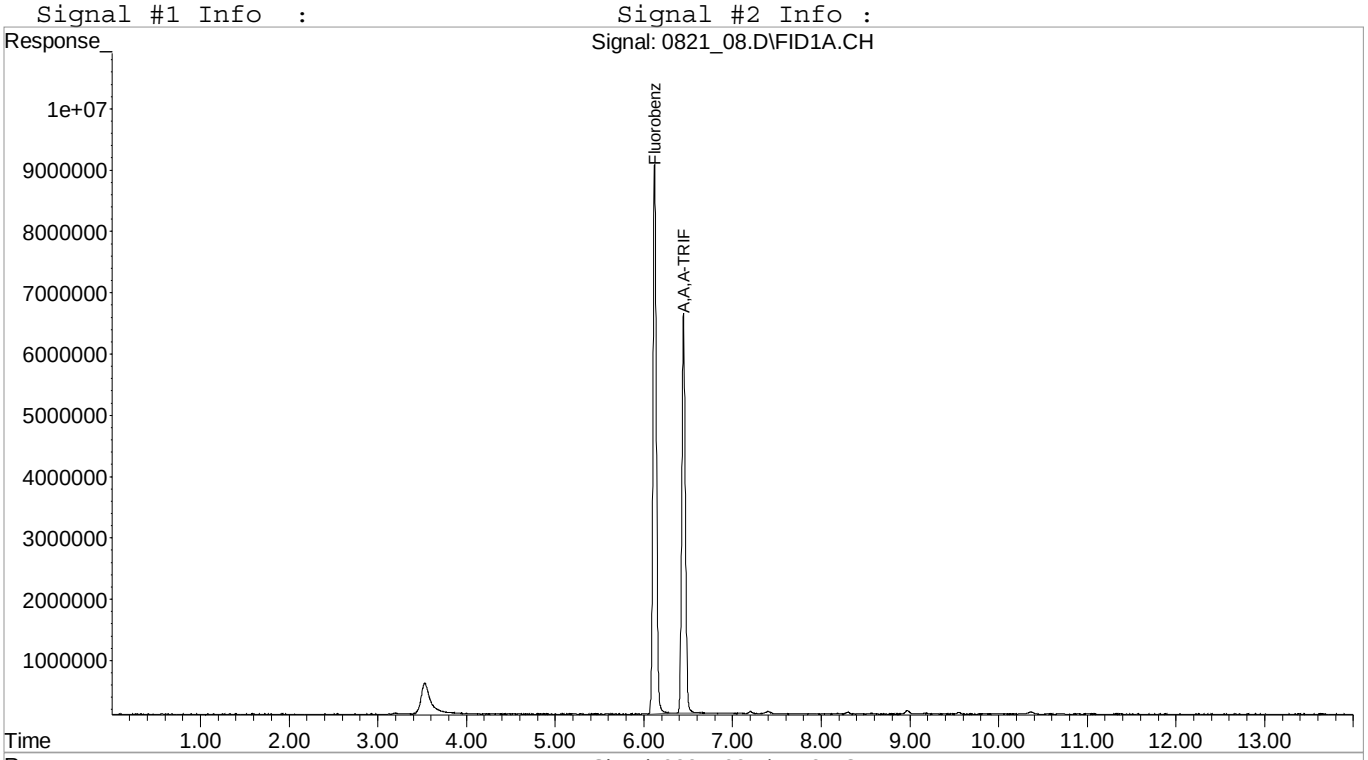
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	234300357	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1037584772	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	179950929	204.5839247	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.29%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	557396599	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	14260	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47873574	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	45039965	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	34337540	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	36112648	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	9426	NoCal	ppb
12) T,M benzene	6.02	668156	NoCal	ppb
13) T,M toluene	7.20	3106211	NoCal	ppb
14) T,M ethylbenzene	8.18	875809	NoCal	ppb
15) T,M m&p-xylene	8.30	3733391	NoCal	ppb
16) T,M o-xylene	8.56	1331763	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	990539	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	3256615	NoCal	ppb
19) T,M Naphthalene	11.49	51575	NoCal	ppb

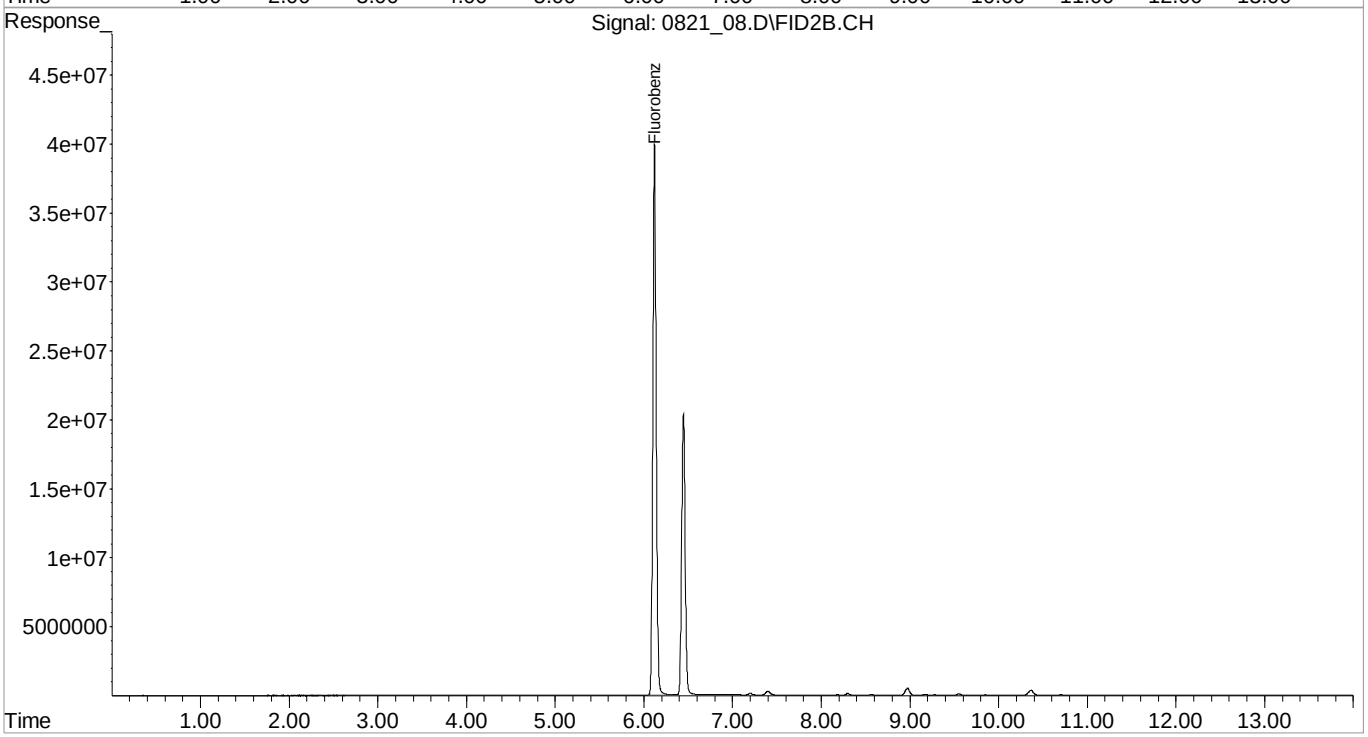
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID2B.CH
Acq On : 8-21-2014 01:53:59 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID2B.CH
Acq On : 8-21-2014 01:53:59 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47:40 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

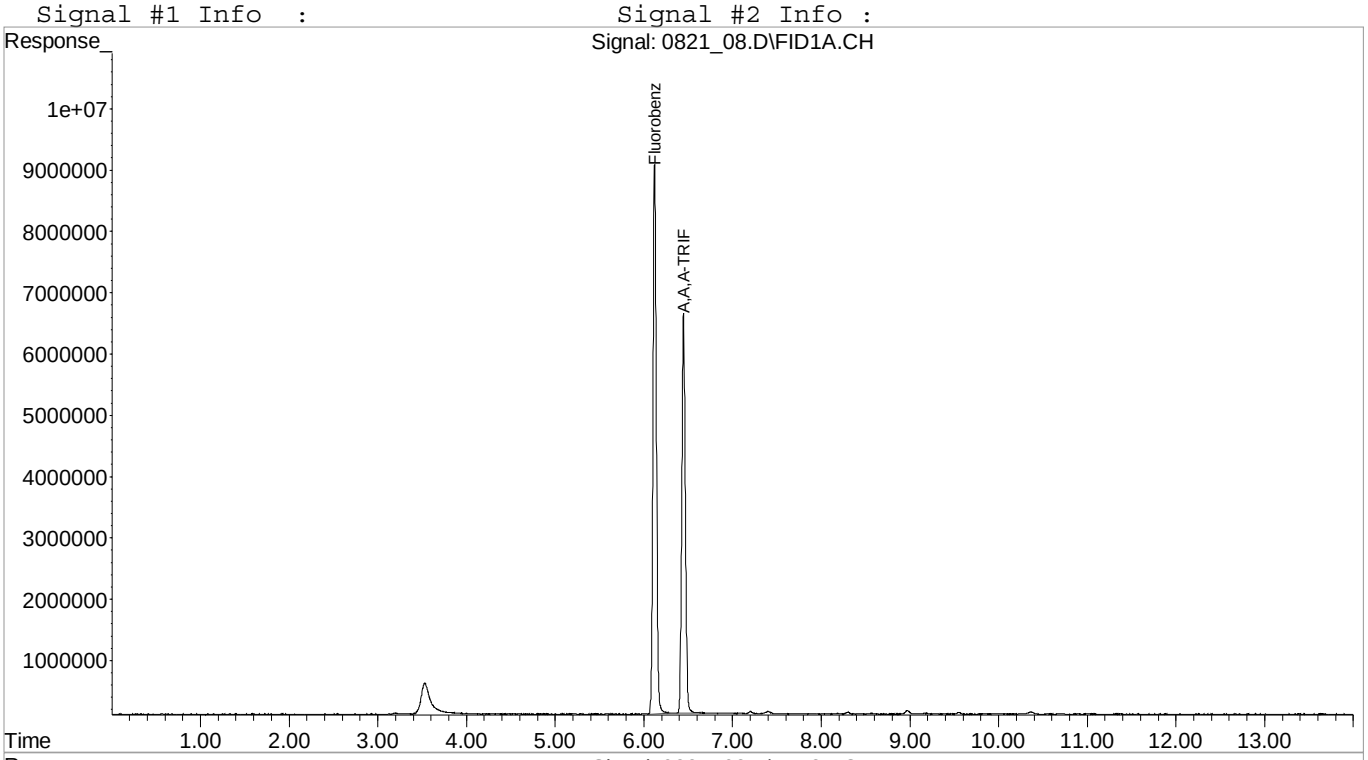
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	234300357	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1037584772	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	179950929	204.5839247	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.29%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	557396599	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	14260	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47873574	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	45039965	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	34337540	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	36112648	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	9426	NoCal	ppb
12) T,M benzene	6.02	668156	NoCal	ppb
13) T,M toluene	7.20	3106211	NoCal	ppb
14) T,M ethylbenzene	8.18	875809	NoCal	ppb
15) T,M m&p-xylene	8.30	3733391	NoCal	ppb
16) T,M o-xylene	8.56	1331763	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	990539	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	3256615	NoCal	ppb
19) T,M Naphthalene	11.49	51575	NoCal	ppb

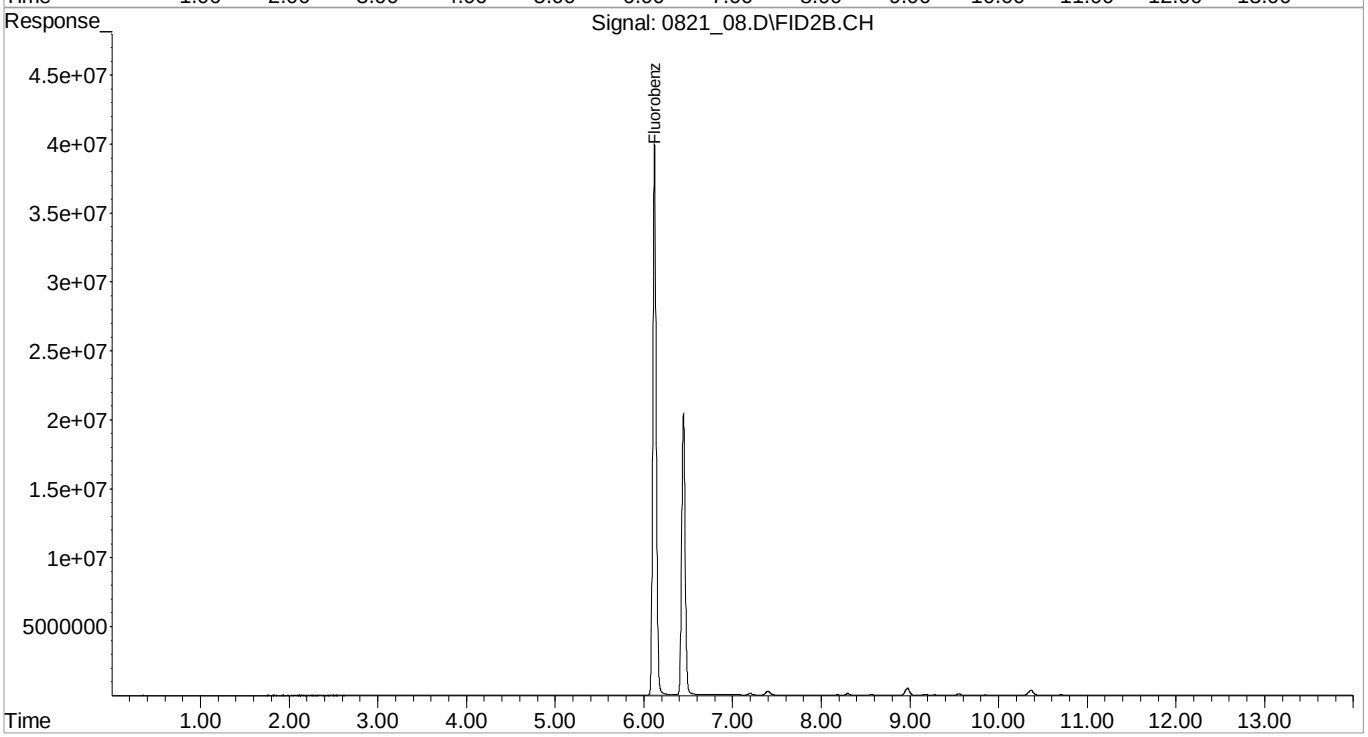
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID2B.CH
Acq On : 8-21-2014 01:53:59 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID2B.CH
Acq On : 8-21-2014 06:06:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48:10 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

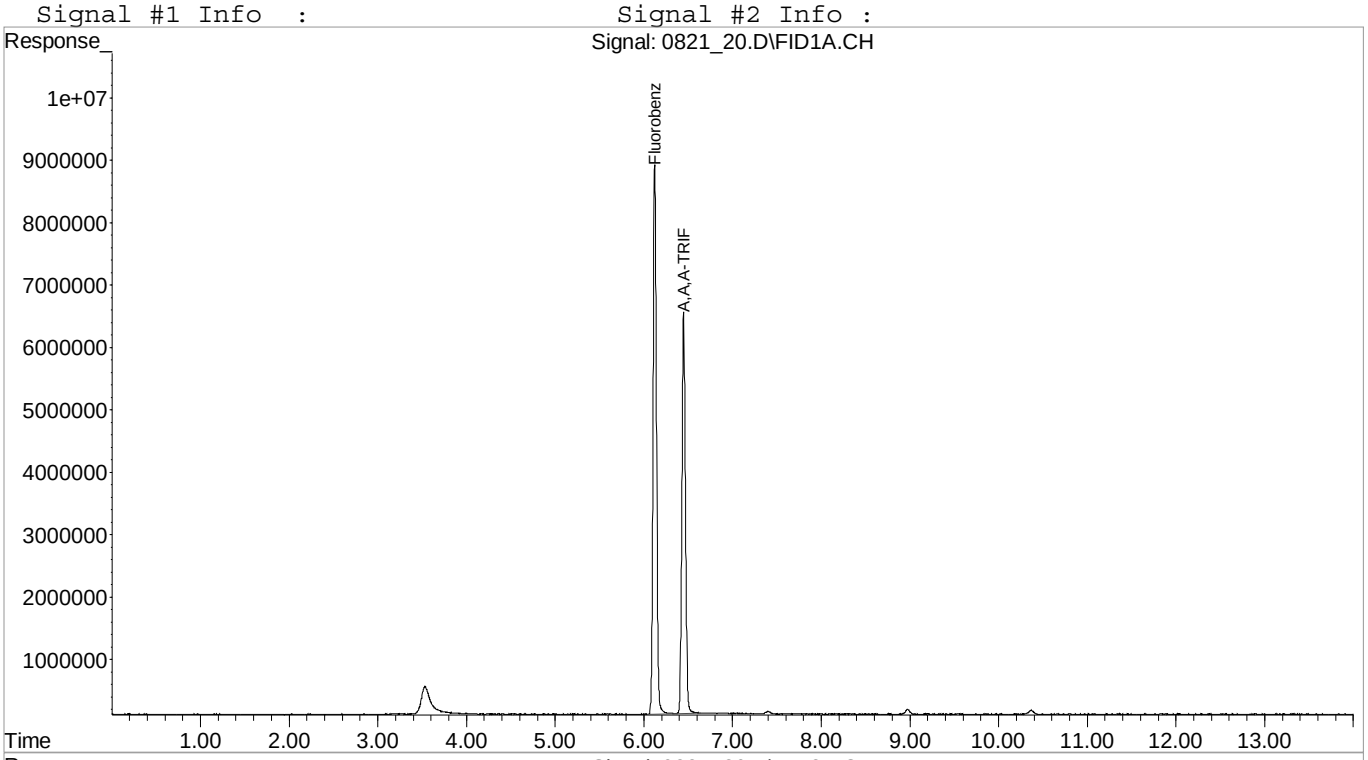
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	230204359	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1022221436	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	176988175	204.7958117	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.40%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	556182516	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	11143	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47780008	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	44533505	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	33504439	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	34861232	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	4713	NoCal	ppb
12) T,M benzene	6.02	312422	NoCal	ppb
13) T,M toluene	7.20	418109	NoCal	ppb
14) T,M ethylbenzene	8.19	179541	NoCal	ppb
15) T,M m&p-xylene	8.30	643576	NoCal	ppb
16) T,M o-xylene	8.57	200658	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	179122	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	666090	NoCal	ppb
19) T,M Naphthalene	11.49	26076	NoCal	ppb

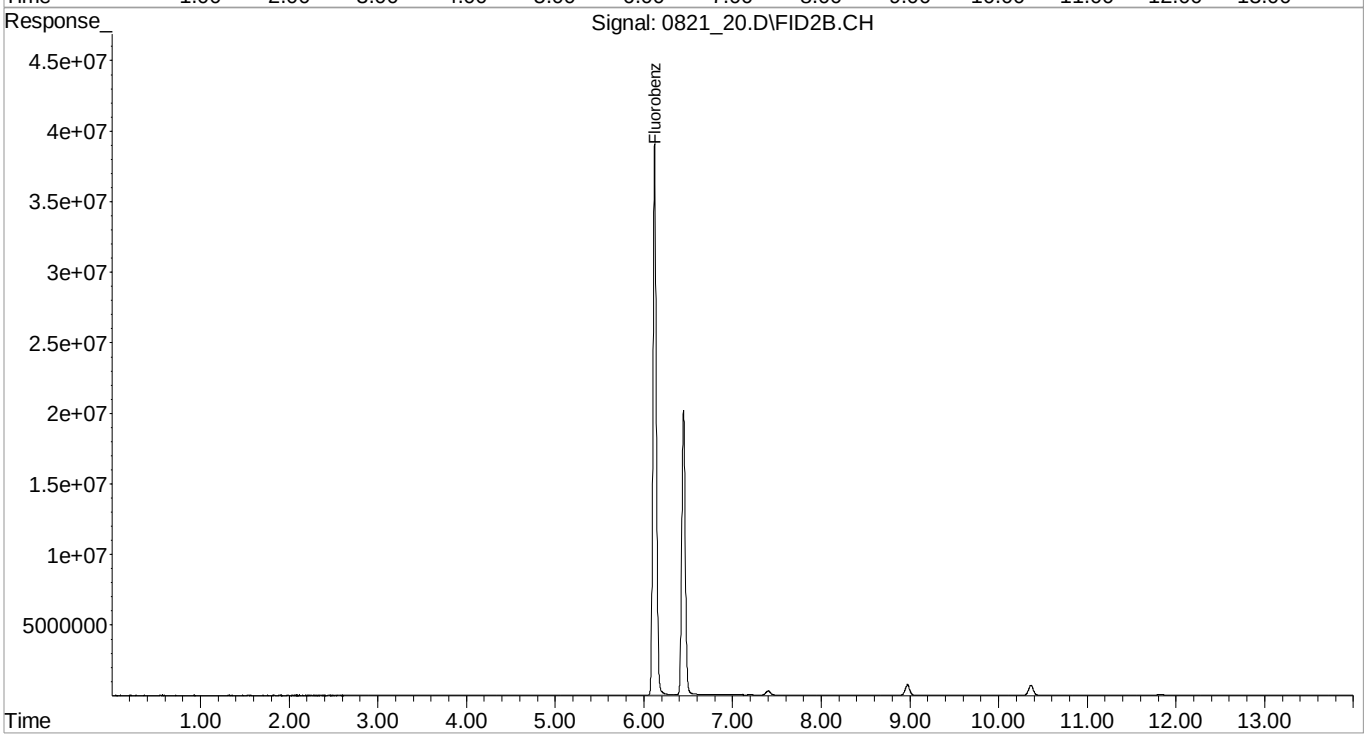
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID2B.CH
Acq On : 8-21-2014 06:06:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID2B.CH
Acq On : 8-21-2014 06:06:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48:10 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

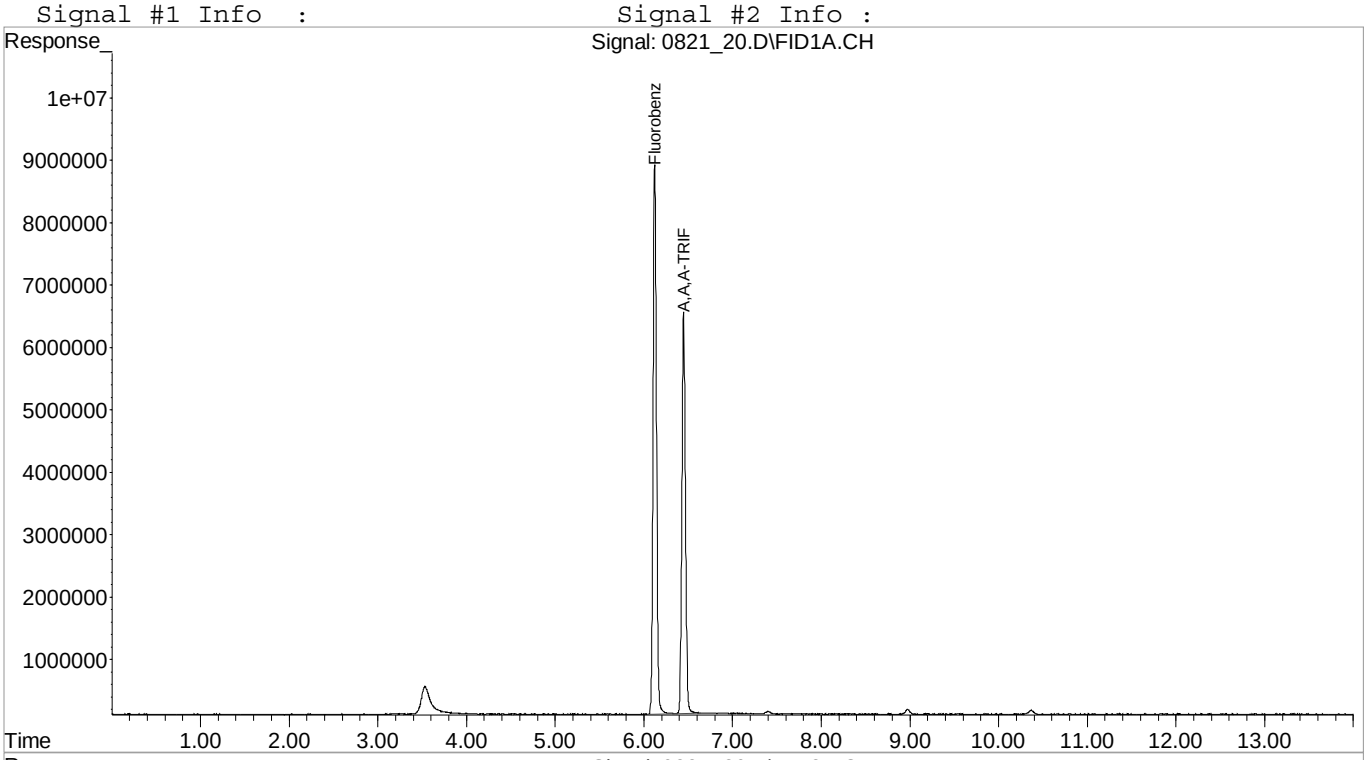
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	230204359	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1022221436	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	176988175	204.7958117	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.40%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	556182516	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	11143	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47780008	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	44533505	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	33504439	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	34861232	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	4713	NoCal	ppb
12) T,M benzene	6.02	312422	NoCal	ppb
13) T,M toluene	7.20	418109	NoCal	ppb
14) T,M ethylbenzene	8.19	179541	NoCal	ppb
15) T,M m&p-xylene	8.30	643576	NoCal	ppb
16) T,M o-xylene	8.57	200658	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	179122	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	666090	NoCal	ppb
19) T,M Naphthalene	11.49	26076	NoCal	ppb

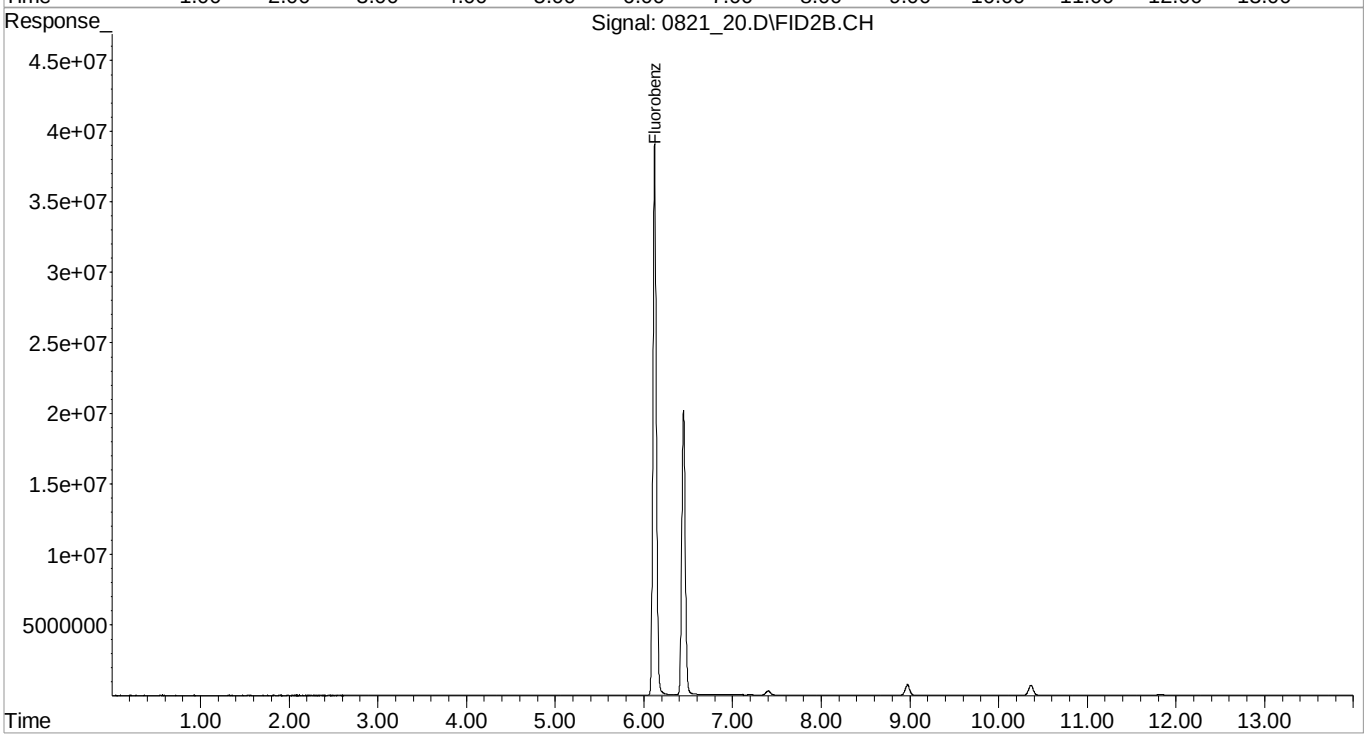
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID2B.CH
Acq On : 8-21-2014 06:06:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Volatile Organic Compounds by Method 8260B

12065 Lebanon Rd
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(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729026

Volatile Organic Compounds by Method 8260B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG750239**
Description: **Volatiles by Method 8260B (SS)**

Sample Name	Collect Date	Analysis Date
L729026-01 1.08x	10/20/2014	10/29/2014
L729026-02 1x	10/20/2014	10/29/2014
L729026-03 1x	10/20/2014	10/29/2014
L729026-05 1x	10/20/2014	10/29/2014
L729026-06 1x	10/20/2014	10/29/2014

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Workgroup: **WG751179**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L729026-04 1x	10/21/2014	10/28/2014

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS21	LCS WG750239	LCS WG750239	1028_33.D	10/29/2014	12:07 AM
VOCMS21	LCSD WG750239	LCSD WG750239	1028_34.D	10/29/2014	12:29 AM
VOCMS21	Blank WG750239	Blank WG750239	1028_36.D	10/29/2014	1:39 AM
VOCMS21	MS WG750239	MS WG750239	1028_37.D	10/29/2014	2:01 AM
VOCMS21	MSD WG750239	MSD WG750239	1028_38.D	10/29/2014	2:23 AM
VOCMS21	TU503-SB01-DS01	L729026-01	1028_58.D	10/29/2014	12:04 PM
VOCMS21	TU503-SB01-NS01	L729026-02	1028_59.D	10/29/2014	12:26 PM
VOCMS21	TU503-SB01-NS02	L729026-03	1028_60.D	10/29/2014	12:48 PM
VOCMS21	TU503-SB05-NS01	L729026-05	1028_61.D	10/29/2014	1:10 PM
VOCMS21	TU503-SB05-NS02	L729026-06	1028_62.D	10/29/2014	1:40 PM

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS21	LCS WG751179	LCS WG751179	1028_03.D	10/28/2014	9:43 AM
VOCMS21	LCSD WG751179	LCSD WG751179	1028_04.D	10/28/2014	10:05 AM
VOCMS21	MS WG751179	MS WG751179	1028_05.D	10/28/2014	11:54 AM
VOCMS21	MSD WG751179	MSD WG751179	1028_06.D	10/28/2014	12:16 PM
VOCMS21	Blank WG751179	Blank WG751179	1028_09.D	10/28/2014	1:22 PM
VOCMS21	TU503-TRIPBLANK04-NT01	L729026-04	1028_12.D	10/28/2014	2:46 PM

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,1,1,2-Tetrachloroethane	630-20-6	< 0.00100	< 0.000264	
1,1,1-Trichloroethane	71-55-6	< 0.00100	< 0.000286	
1,1,2,2-Tetrachloroethane	79-34-5	< 0.00100	< 0.000365	
1,1,2-Trichloroethane	79-00-5	< 0.00100	< 0.000277	
1,1-Dichloroethane	75-34-3	< 0.00100	< 0.000199	
1,1-Dichloroethene	75-35-4	< 0.00100	< 0.000303	
1,1-Dichloropropene	563-58-6	< 0.00100	< 0.000317	
1,2,3-Trichlorobenzene	87-61-6	< 0.00100	< 0.000306	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000741	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	< 0.000388	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000211	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00105	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000343	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000305	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000265	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000358	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000266	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000239	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000207	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000226	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000279	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00468	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000301	
2-Hexanone	591-78-6	< 0.0100	< 0.00380	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000240	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00188	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000270	
Bromobenzene	108-86-1	< 0.00100	< 0.000284	
Bromochloromethane	74-97-5	< 0.00100	< 0.000390	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000254	
Bromoform	75-25-2	< 0.00100	< 0.000424	
Bromomethane	74-83-9	< 0.00500	< 0.00134	
Carbon disulfide	75-15-0	< 0.00100	< 0.000280	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000328	
Chlorobenzene	108-90-7	< 0.00100	< 0.000212	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000373	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000946	
Chloroform	67-66-3	< 0.00500	< 0.000229	
Chloromethane	74-87-3	< 0.00250	< 0.000375	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000235	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000262	
Dibromomethane	74-95-3	< 0.00100	< 0.000382	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000713	
Ethylbenzene	100-41-4	< 0.00100	< 0.000297	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000342	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000243	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000720	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000212	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000258	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000206	
o-Xylene	95-47-6	< 0.00100	< 0.000340	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000204	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000201	
Styrene	100-42-5	< 0.00100	< 0.000234	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000206	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000276	
Toluene	108-88-3	< 0.00500	< 0.000434	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000264	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000267	
Trichloroethene	79-01-6	< 0.00100	< 0.000279	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.000382	
Vinyl chloride	75-01-4	< 0.00100	< 0.000291	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

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	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

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	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0291	116	72.9 - 124	
1,1,1-Trichloroethane	1	0.025	0.0262	105	73.7 - 124	
1,1,2,2-Tetrachloroethane	1	0.025	0.0291	117	69.4 - 122	
1,1,2-Trichloroethane	1	0.025	0.0269	108	79.1 - 118	
1,1-Dichloroethane	1	0.025	0.0248	99	75 - 124	
1,1-Dichloroethene	1	0.025	0.0266	106	70.4 - 129	
1,1-Dichloropropene	1	0.025	0.0269	107	74.9 - 124	
1,2,3-Trichlorobenzene	1	0.025	0.0291	116	69.3 - 131	
1,2,3-Trichloropropane	1	0.025	0.0287	115	71.4 - 123	
1,2,4-Trichlorobenzene	1	0.025	0.0306	122	71.9 - 137	
1,2,4-Trimethylbenzene	1	0.025	0.0282	113	75.5 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0319	128	62.8 - 133	
1,2-Dibromoethane	1	0.025	0.0292	117	78.6 - 120	
1,2-Dichlorobenzene	1	0.025	0.0281	112	78.3 - 118	
1,2-Dichloroethane	1	0.025	0.0264	106	70.1 - 124	
1,2-Dichloropropane	1	0.025	0.0276	110	77.9 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0275	110	75.9 - 124	
1,3-Dichlorobenzene	1	0.025	0.0288	115	72 - 126	
1,3-Dichloropropane	1	0.025	0.0262	105	79.1 - 117	
1,4-Dichlorobenzene	1	0.025	0.0271	108	78.3 - 117	
2,2-Dichloropropane	1	0.025	0.0261	104	61.3 - 136	
2-Butanone (MEK)	1	0.125	0.1303	104	53.7 - 153	
2-Chlorotoluene	1	0.025	0.0278	111	75.6 - 121	
2-Hexanone	1	0.125	0.1550	124	66.7 - 148	
4-Chlorotoluene	1	0.025	0.0281	112	77.3 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1497	120	70.4 - 137	
Acetone	1	0.125	0.1164	93.1	35.1 - 175	
Benzene	1	0.025	0.0268	107	77.1 - 121	
Bromobenzene	1	0.025	0.0260	104	78.2 - 115	
Bromochloromethane	1	0.025	0.0261	104	78.4 - 119	
Bromodichloromethane	1	0.025	0.0281	112	74.9 - 115	
Bromoform	1	0.025	0.0320	128	65.9 - 132	
Bromomethane	1	0.025	0.0300	120	48.7 - 165	
Carbon disulfide	1	0.025	0.0283	113	66.9 - 145	
Carbon tetrachloride	1	0.025	0.0271	108	70 - 124	
Chlorobenzene	1	0.025	0.0262	105	79.1 - 119	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0289	116	73.5 - 121	
Chloroethane	1	0.025	0.0307	123	66.2 - 132	
Chloroform	1	0.025	0.0244	97.7	76.7 - 122	
Chloromethane	1	0.025	0.0252	101	63.4 - 131	
cis-1,2-Dichloroethene	1	0.025	0.0249	99.5	78.2 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0292	117	79.6 - 120	
Dibromomethane	1	0.025	0.0271	108	79.4 - 120	
Dichlorodifluoromethane	1	0.025	0.0232	92.9	57.1 - 137	
Ethylbenzene	1	0.025	0.0284	113	79.7 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0279	112	68.2 - 123	
Isopropylbenzene	1	0.025	0.0282	113	80 - 135	
m&p-Xylenes	1	0.05	0.0566	113	79 - 121	
Methyl tert-butyl ether	1	0.025	0.0238	95.3	73 - 129	
Methylene Chloride	1	0.025	0.0224	89.4	72.6 - 120	
Naphthalene	1	0.025	0.0266	106	69.8 - 128	
n-Butylbenzene	1	0.025	0.0302	121	77.5 - 126	
n-Propylbenzene	1	0.025	0.0281	112	77.9 - 123	
o-Xylene	1	0.025	0.0270	108	77.8 - 122	
p-Isopropyltoluene	1	0.025	0.0290	116	75.8 - 129	
sec-Butylbenzene	1	0.025	0.0280	112	75.8 - 126	
Styrene	1	0.025	0.0275	110	82.4 - 126	
tert-Butylbenzene	1	0.025	0.0282	113	76.4 - 126	
Tetrachloroethene	1	0.025	0.0293	117	73.9 - 125	
Toluene	1	0.025	0.0265	106	79.7 - 118	
trans-1,2-Dichloroethene	1	0.025	0.0247	99	73.8 - 122	
trans-1,3-Dichloropropene	1	0.025	0.0298	119	75.9 - 124	
Trichloroethene	1	0.025	0.0272	109	77.9 - 118	
Trichlorofluoromethane	1	0.025	0.0256	103	67.7 - 131	
Vinyl chloride	1	0.025	0.0238	95.1	66.7 - 130	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0284	113	72.9 - 124	
1,1,1-Trichloroethane	1	0.025	0.0243	97.1	73.7 - 124	
1,1,2,2-Tetrachloroethane	1	0.025	0.0276	110	69.4 - 122	
1,1,2-Trichloroethane	1	0.025	0.0259	103	79.1 - 118	
1,1-Dichloroethane	1	0.025	0.0239	95.6	75 - 124	
1,1-Dichloroethene	1	0.025	0.0257	103	70.4 - 129	
1,1-Dichloropropene	1	0.025	0.0252	101	74.9 - 124	
1,2,3-Trichlorobenzene	1	0.025	0.0257	103	69.3 - 131	
1,2,3-Trichloropropane	1	0.025	0.0275	110	71.4 - 123	
1,2,4-Trichlorobenzene	1	0.025	0.0266	106	71.9 - 137	
1,2,4-Trimethylbenzene	1	0.025	0.0270	108	75.5 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0284	114	62.8 - 133	
1,2-Dibromoethane	1	0.025	0.0275	110	78.6 - 120	
1,2-Dichlorobenzene	1	0.025	0.0258	103	78.3 - 118	
1,2-Dichloroethane	1	0.025	0.0245	97.8	70.1 - 124	
1,2-Dichloropropane	1	0.025	0.0266	106	77.9 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0263	105	75.9 - 124	
1,3-Dichlorobenzene	1	0.025	0.0269	108	72 - 126	
1,3-Dichloropropane	1	0.025	0.0252	101	79.1 - 117	
1,4-Dichlorobenzene	1	0.025	0.0252	101	78.3 - 117	
2,2-Dichloropropane	1	0.025	0.0248	99.1	61.3 - 136	
2-Butanone (MEK)	1	0.125	0.1152	92.2	53.7 - 153	
2-Chlorotoluene	1	0.025	0.0277	111	75.6 - 121	
2-Hexanone	1	0.125	0.1417	113	66.7 - 148	
4-Chlorotoluene	1	0.025	0.0266	106	77.3 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1422	114	70.4 - 137	
Acetone	1	0.125	0.1090	87.2	35.1 - 175	
Benzene	1	0.025	0.0254	101	77.1 - 121	
Bromobenzene	1	0.025	0.0251	101	78.2 - 115	
Bromochloromethane	1	0.025	0.0241	96.6	78.4 - 119	
Bromodichloromethane	1	0.025	0.0272	109	74.9 - 115	
Bromoform	1	0.025	0.0299	120	65.9 - 132	
Bromomethane	1	0.025	0.0292	117	48.7 - 165	
Carbon disulfide	1	0.025	0.0274	110	66.9 - 145	
Carbon tetrachloride	1	0.025	0.0261	104	70 - 124	
Chlorobenzene	1	0.025	0.0244	97.7	79.1 - 119	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0268	107	73.5 - 121	
Chloroethane	1	0.025	0.0285	114	66.2 - 132	
Chloroform	1	0.025	0.0234	93.8	76.7 - 122	
Chloromethane	1	0.025	0.0249	99.7	63.4 - 131	
cis-1,2-Dichloroethene	1	0.025	0.0237	94.8	78.2 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0279	112	79.6 - 120	
Dibromomethane	1	0.025	0.0262	105	79.4 - 120	
Dichlorodifluoromethane	1	0.025	0.0222	88.8	57.1 - 137	
Ethylbenzene	1	0.025	0.0267	107	79.7 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0262	105	68.2 - 123	
Isopropylbenzene	1	0.025	0.0272	109	80 - 135	
m&p-Xylenes	1	0.05	0.0535	107	79 - 121	
Methyl tert-butyl ether	1	0.025	0.0233	93	73 - 129	
Methylene Chloride	1	0.025	0.0223	89.1	72.6 - 120	
Naphthalene	1	0.025	0.0244	97.7	69.8 - 128	
n-Butylbenzene	1	0.025	0.0274	110	77.5 - 126	
n-Propylbenzene	1	0.025	0.0265	106	77.9 - 123	
o-Xylene	1	0.025	0.0260	104	77.8 - 122	
p-Isopropyltoluene	1	0.025	0.0274	110	75.8 - 129	
sec-Butylbenzene	1	0.025	0.0267	107	75.8 - 126	
Styrene	1	0.025	0.0265	106	82.4 - 126	
tert-Butylbenzene	1	0.025	0.0271	108	76.4 - 126	
Tetrachloroethene	1	0.025	0.0274	110	73.9 - 125	
Toluene	1	0.025	0.0264	106	79.7 - 118	
trans-1,2-Dichloroethene	1	0.025	0.0237	94.7	73.8 - 122	
trans-1,3-Dichloropropene	1	0.025	0.0295	118	75.9 - 124	
Trichloroethene	1	0.025	0.0267	107	77.9 - 118	
Trichlorofluoromethane	1	0.025	0.0255	102	67.7 - 131	
Vinyl chloride	1	0.025	0.0230	92.1	66.7 - 130	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

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	0.0291	116	0.0284	113	72.9 - 124		2.53	20	
1,1,1-Trichloroethane	1	0.025	0.0262	105	0.0243	97.1	73.7 - 124		7.51	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0291	117	0.0276	110	69.4 - 122		5.37	20	
1,1,2-Trichloroethane	1	0.025	0.0269	108	0.0259	103	79.1 - 118		4.04	20	
1,1-Dichloroethane	1	0.025	0.0248	99	0.0239	95.6	75 - 124		3.5	20	
1,1-Dichloroethene	1	0.025	0.0266	106	0.0257	103	70.4 - 129		3.22	20	
1,1-Dichloropropene	1	0.025	0.0269	107	0.0252	101	74.9 - 124		6.4	20	
1,2,3-Trichlorobenzene	1	0.025	0.0291	116	0.0257	103	69.3 - 131		12.2	20	
1,2,3-Trichloropropane	1	0.025	0.0287	115	0.0275	110	71.4 - 123		4.1	20	
1,2,4-Trichlorobenzene	1	0.025	0.0306	122	0.0266	106	71.9 - 137		14	20	
1,2,4-Trimethylbenzene	1	0.025	0.0282	113	0.0270	108	75.5 - 122		4.21	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0319	128	0.0284	114	62.8 - 133		11.4	20	
1,2-Dibromoethane	1	0.025	0.0292	117	0.0275	110	78.6 - 120		6.06	20	
1,2-Dichlorobenzene	1	0.025	0.0281	112	0.0258	103	78.3 - 118		8.43	20	
1,2-Dichloroethane	1	0.025	0.0264	106	0.0245	97.8	70.1 - 124		7.76	20	
1,2-Dichloropropane	1	0.025	0.0276	110	0.0266	106	77.9 - 119		3.75	20	
1,3,5-Trimethylbenzene	1	0.025	0.0275	110	0.0263	105	75.9 - 124		4.44	20	
1,3-Dichlorobenzene	1	0.025	0.0288	115	0.0269	108	72 - 126		6.67	20	
1,3-Dichloropropane	1	0.025	0.0262	105	0.0252	101	79.1 - 117		3.66	20	
1,4-Dichlorobenzene	1	0.025	0.0271	108	0.0252	101	78.3 - 117		7.01	20	
2,2-Dichloropropane	1	0.025	0.0261	104	0.0248	99.1	61.3 - 136		5.13	20	
2-Butanone (MEK)	1	0.125	0.1303	104	0.1152	92.2	53.7 - 153		12.3	21.2	
2-Chlorotoluene	1	0.025	0.0278	111	0.0277	111	75.6 - 121		0.46	20	
2-Hexanone	1	0.125	0.1550	124	0.1417	113	66.7 - 148		8.95	20	
4-Chlorotoluene	1	0.025	0.0281	112	0.0266	106	77.3 - 120		5.34	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1497	120	0.1422	114	70.4 - 137		5.18	20	
Acetone	1	0.125	0.1164	93.1	0.1090	87.2	35.1 - 175		6.57	26.1	
Benzene	1	0.025	0.0268	107	0.0254	101	77.1 - 121		5.52	20	
Bromobenzene	1	0.025	0.0260	104	0.0251	101	78.2 - 115		3.28	20	
Bromochloromethane	1	0.025	0.0261	104	0.0241	96.6	78.4 - 119		7.62	20	
Bromodichloromethane	1	0.025	0.0281	112	0.0272	109	74.9 - 115		3.15	20	
Bromoform	1	0.025	0.0320	128	0.0299	120	65.9 - 132		6.76	20	
Bromomethane	1	0.025	0.0300	120	0.0292	117	48.7 - 165		2.78	20	
Carbon disulfide	1	0.025	0.0283	113	0.0274	110	66.9 - 145		2.99	20	
Carbon tetrachloride	1	0.025	0.0271	108	0.0261	104	70 - 124		3.82	20	
Chlorobenzene	1	0.025	0.0262	105	0.0244	97.7	79.1 - 119		7.12	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

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	0.0289	116	0.0268	107	73.5 - 121		7.54	20	
Chloroethane	1	0.025	0.0307	123	0.0285	114	66.2 - 132		7.39	20	
Chloroform	1	0.025	0.0244	97.7	0.0234	93.8	76.7 - 122		4.04	20	
Chloromethane	1	0.025	0.0252	101	0.0249	99.7	63.4 - 131		0.99	20	
cis-1,2-Dichloroethene	1	0.025	0.0249	99.5	0.0237	94.8	78.2 - 119		4.85	20	
cis-1,3-Dichloropropene	1	0.025	0.0292	117	0.0279	112	79.6 - 120		4.58	20	
Dibromomethane	1	0.025	0.0271	108	0.0262	105	79.4 - 120		3.48	20	
Dichlorodifluoromethane	1	0.025	0.0232	92.9	0.0222	88.8	57.1 - 137		4.51	20	
Ethylbenzene	1	0.025	0.0284	113	0.0267	107	79.7 - 122		5.81	20	
Hexachloro-1,3-butadiene	1	0.025	0.0279	112	0.0262	105	68.2 - 123		6.41	20	
Isopropylbenzene	1	0.025	0.0282	113	0.0272	109	80 - 135		3.58	20	
m&p-Xylenes	1	0.05	0.0566	113	0.0535	107	79 - 121		5.62	20	
Methyl tert-butyl ether	1	0.025	0.0238	95.3	0.0233	93	73 - 129		2.43	20	
Methylene Chloride	1	0.025	0.0224	89.4	0.0223	89.1	72.6 - 120		0.29	20	
Naphthalene	1	0.025	0.0266	106	0.0244	97.7	69.8 - 128		8.41	20	
n-Butylbenzene	1	0.025	0.0302	121	0.0274	110	77.5 - 126		9.93	20	
n-Propylbenzene	1	0.025	0.0281	112	0.0265	106	77.9 - 123		5.97	20	
o-Xylene	1	0.025	0.0270	108	0.0260	104	77.8 - 122		3.94	20	
p-Isopropyltoluene	1	0.025	0.0290	116	0.0274	110	75.8 - 129		5.48	20	
sec-Butylbenzene	1	0.025	0.0280	112	0.0267	107	75.8 - 126		4.59	20	
Styrene	1	0.025	0.0275	110	0.0265	106	82.4 - 126		3.69	20	
tert-Butylbenzene	1	0.025	0.0282	113	0.0271	108	76.4 - 126		4	20	
Tetrachloroethene	1	0.025	0.0293	117	0.0274	110	73.9 - 125		6.92	20	
Toluene	1	0.025	0.0265	106	0.0264	106	79.7 - 118		0.16	20	
trans-1,2-Dichloroethene	1	0.025	0.0247	99	0.0237	94.7	73.8 - 122		4.4	20	
trans-1,3-Dichloropropene	1	0.025	0.0298	119	0.0295	118	75.9 - 124		1.13	20	
Trichloroethene	1	0.025	0.0272	109	0.0267	107	77.9 - 118		1.81	20	
Trichlorofluoromethane	1	0.025	0.0256	103	0.0255	102	67.7 - 131		0.75	20	
Vinyl chloride	1	0.025	0.0238	95.1	0.0230	92.1	66.7 - 130		3.15	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0295	118	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0273	109	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0274	109	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0268	107	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0272	109	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0277	111	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0271	108	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0283	113	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0270	108	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0293	117	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0279	112	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0278	111	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0278	111	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0267	107	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0262	105	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0281	112	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0269	108	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0283	113	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0263	105	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0261	105	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0286	114	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1293	103	55 - 149	
2-Chlorotoluene	1	0.025	0.0278	111	74.7 - 122	
2-Hexanone	1	0.125	0.1375	110	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0275	110	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1383	111	70.5 - 133	
Acetone	1	0.125	0.1184	94.7	35.6 - 163	
Benzene	1	0.025	0.0273	109	74.8 - 121	
Bromobenzene	1	0.025	0.0261	104	77.5 - 116	
Bromochloromethane	1	0.025	0.0282	113	77.6 - 119	
Bromodichloromethane	1	0.025	0.0288	115	75.1 - 116	
Bromoform	1	0.025	0.0314	126	67.5 - 130	
Bromomethane	1	0.025	0.0319	128	49.9 - 162	
Carbon disulfide	1	0.025	0.0277	111	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0292	117	70.2 - 123	
Chlorobenzene	1	0.025	0.0260	104	78.1 - 119	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0280	112	74 - 121	
Chloroethane	1	0.025	0.0304	121	61.7 - 135	
Chloroform	1	0.025	0.0274	109	76 - 121	
Chloromethane	1	0.025	0.0269	108	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0280	112	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0298	119	78.2 - 120	
Dibromomethane	1	0.025	0.0276	111	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0266	106	54.8 - 135	
Ethylbenzene	1	0.025	0.0278	111	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0273	109	64.7 - 129	
Isopropylbenzene	1	0.025	0.0274	110	78.6 - 132	
m&p-Xylenes	1	0.05	0.0555	111	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0255	102	71.2 - 126	
Methylene Chloride	1	0.025	0.0239	95.5	70.3 - 120	
Naphthalene	1	0.025	0.0246	98.5	68.4 - 128	
n-Butylbenzene	1	0.025	0.0285	114	76.2 - 126	
n-Propylbenzene	1	0.025	0.0276	111	78.2 - 122	
o-Xylene	1	0.025	0.0265	106	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0280	112	74 - 131	
sec-Butylbenzene	1	0.025	0.0271	109	74.4 - 127	
Styrene	1	0.025	0.0273	109	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0273	109	75.3 - 126	
Tetrachloroethene	1	0.025	0.0274	110	72.6 - 126	
Toluene	1	0.025	0.0268	107	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0263	105	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0294	118	74.3 - 123	
Trichloroethene	1	0.025	0.0274	110	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0272	109	63.5 - 135	
Vinyl chloride	1	0.025	0.0249	99.6	65.9 - 128	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Laboratory Control Sample Duplicate (LCSD)

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	0.0252	101	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0270	108	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0255	102	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0248	99.1	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0262	105	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0254	102	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0273	109	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0250	100	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0287	115	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0274	109	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0271	108	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0273	109	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0260	104	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0263	105	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0271	108	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0264	106	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0273	109	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0250	99.8	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0255	102	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0259	104	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1185	94.8	55 - 149	
2-Chlorotoluene	1	0.025	0.0263	105	74.7 - 122	
2-Hexanone	1	0.125	0.1338	107	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0264	106	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1399	112	70.5 - 133	
Acetone	1	0.125	0.1091	87.3	35.6 - 163	
Benzene	1	0.025	0.0265	106	74.8 - 121	
Bromobenzene	1	0.025	0.0251	101	77.5 - 116	
Bromochloromethane	1	0.025	0.0256	102	77.6 - 119	
Bromodichloromethane	1	0.025	0.0281	112	75.1 - 116	
Bromoform	1	0.025	0.0295	118	67.5 - 130	
Bromomethane	1	0.025	0.0304	122	49.9 - 162	
Carbon disulfide	1	0.025	0.0262	105	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0265	106	70.2 - 123	
Chlorobenzene	1	0.025	0.0249	99.6	78.1 - 119	

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(800) 767-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0275	110	74 - 121	
Chloroethane	1	0.025	0.0298	119	61.7 - 135	
Chloroform	1	0.025	0.0247	98.6	76 - 121	
Chloromethane	1	0.025	0.0262	105	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0263	105	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0294	118	78.2 - 120	
Dibromomethane	1	0.025	0.0270	108	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0251	100	54.8 - 135	
Ethylbenzene	1	0.025	0.0264	105	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0263	105	64.7 - 129	
Isopropylbenzene	1	0.025	0.0263	105	78.6 - 132	
m&p-Xylenes	1	0.05	0.0536	107	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0237	94.9	71.2 - 126	
Methylene Chloride	1	0.025	0.0225	90.1	70.3 - 120	
Naphthalene	1	0.025	0.0247	98.8	68.4 - 128	
n-Butylbenzene	1	0.025	0.0282	113	76.2 - 126	
n-Propylbenzene	1	0.025	0.0265	106	78.2 - 122	
o-Xylene	1	0.025	0.0255	102	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0272	109	74 - 131	
sec-Butylbenzene	1	0.025	0.0264	106	74.4 - 127	
Styrene	1	0.025	0.0266	106	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0263	105	75.3 - 126	
Tetrachloroethene	1	0.025	0.0264	106	72.6 - 126	
Toluene	1	0.025	0.0261	104	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0241	96.5	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0294	118	74.3 - 123	
Trichloroethene	1	0.025	0.0266	106	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0259	103	63.5 - 135	
Vinyl chloride	1	0.025	0.0238	95.3	65.9 - 128	

Parameters in bold text are reported in this SDG

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(800) 767-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

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	0.0295	118	0.0282	113	74.2 - 124		4.57	20	
1,1,1-Trichloroethane	1	0.025	0.0273	109	0.0252	101	73.2 - 123		8.01	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0274	109	0.0270	108	70.7 - 122		1.32	20	
1,1,2-Trichloroethane	1	0.025	0.0268	107	0.0255	102	77.7 - 118		4.87	20	
1,1-Dichloroethane	1	0.025	0.0272	109	0.0248	99.1	70.7 - 126		9.36	20	
1,1-Dichloroethene	1	0.025	0.0277	111	0.0262	105	67.8 - 129		5.6	20	
1,1-Dichloropropene	1	0.025	0.0271	108	0.0254	102	73.1 - 125		6.43	20	
1,2,3-Trichlorobenzene	1	0.025	0.0283	113	0.0273	109	64.9 - 135		3.46	20	
1,2,3-Trichloropropane	1	0.025	0.0270	108	0.0250	100	71.8 - 121		7.54	20	
1,2,4-Trichlorobenzene	1	0.025	0.0293	117	0.0287	115	69.7 - 136		2.03	20	
1,2,4-Trimethylbenzene	1	0.025	0.0279	112	0.0274	109	75 - 123		2.11	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0278	111	0.0271	108	65.4 - 128		2.44	20	
1,2-Dibromoethane	1	0.025	0.0278	111	0.0273	109	76.6 - 121		2.02	20	
1,2-Dichlorobenzene	1	0.025	0.0267	107	0.0260	104	78.4 - 117		2.82	20	
1,2-Dichloroethane	1	0.025	0.0262	105	0.0263	105	68.8 - 124		0.43	20	
1,2-Dichloropropane	1	0.025	0.0281	112	0.0271	108	76.5 - 119		3.49	20	
1,3,5-Trimethylbenzene	1	0.025	0.0269	108	0.0264	106	75.6 - 124		1.67	20	
1,3-Dichlorobenzene	1	0.025	0.0283	113	0.0273	109	70.8 - 128		3.8	20	
1,3-Dichloropropane	1	0.025	0.0263	105	0.0250	99.8	77.4 - 117		5.06	20	
1,4-Dichlorobenzene	1	0.025	0.0261	105	0.0255	102	78.8 - 115		2.34	20	
2,2-Dichloropropane	1	0.025	0.0286	114	0.0259	104	62.4 - 133		9.95	20	
2-Butanone (MEK)	1	0.125	0.1293	103	0.1185	94.8	55 - 149		8.71	20	
2-Chlorotoluene	1	0.025	0.0278	111	0.0263	105	74.7 - 122		5.33	20	
2-Hexanone	1	0.125	0.1375	110	0.1338	107	65.6 - 144		2.74	20	
4-Chlorotoluene	1	0.025	0.0275	110	0.0264	106	77.5 - 120		3.73	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1383	111	0.1399	112	70.5 - 133		1.12	20	
Acetone	1	0.125	0.1184	94.7	0.1091	87.3	35.6 - 163		8.22	23.9	
Benzene	1	0.025	0.0273	109	0.0265	106	74.8 - 121		2.98	20	
Bromobenzene	1	0.025	0.0261	104	0.0251	101	77.5 - 116		3.66	20	
Bromochloromethane	1	0.025	0.0282	113	0.0256	102	77.6 - 119		9.55	20	
Bromodichloromethane	1	0.025	0.0288	115	0.0281	112	75.1 - 116		2.7	20	
Bromoform	1	0.025	0.0314	126	0.0295	118	67.5 - 130		6.31	20	
Bromomethane	1	0.025	0.0319	128	0.0304	122	49.9 - 162		4.91	20	
Carbon disulfide	1	0.025	0.0277	111	0.0262	105	64.6 - 140		5.61	20	
Carbon tetrachloride	1	0.025	0.0292	117	0.0265	106	70.2 - 123		9.54	20	
Chlorobenzene	1	0.025	0.0260	104	0.0249	99.6	78.1 - 119		4.23	20	

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(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

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	0.0280	112	0.0275	110	74 - 121		1.81	20	
Chloroethane	1	0.025	0.0304	121	0.0298	119	61.7 - 135		1.85	20	
Chloroform	1	0.025	0.0274	109	0.0247	98.6	76 - 121		10.4	20	
Chloromethane	1	0.025	0.0269	108	0.0262	105	61.5 - 129		2.74	20	
cis-1,2-Dichloroethene	1	0.025	0.0280	112	0.0263	105	76 - 119		6.15	20	
cis-1,3-Dichloropropene	1	0.025	0.0298	119	0.0294	118	78.2 - 120		1.29	20	
Dibromomethane	1	0.025	0.0276	111	0.0270	108	79.5 - 118		2.22	20	
Dichlorodifluoromethane	1	0.025	0.0266	106	0.0251	100	54.8 - 135		5.76	20	
Ethylbenzene	1	0.025	0.0278	111	0.0264	105	78.8 - 122		5.2	20	
Hexachloro-1,3-butadiene	1	0.025	0.0273	109	0.0263	105	64.7 - 129		3.79	20	
Isopropylbenzene	1	0.025	0.0274	110	0.0263	105	78.6 - 132		4.06	20	
m&p-Xylenes	1	0.05	0.0555	111	0.0536	107	78.8 - 121		3.4	20	
Methyl tert-butyl ether	1	0.025	0.0255	102	0.0237	94.9	71.2 - 126		7	20	
Methylene Chloride	1	0.025	0.0239	95.5	0.0225	90.1	70.3 - 120		5.8	20	
Naphthalene	1	0.025	0.0246	98.5	0.0247	98.8	68.4 - 128		0.3	20	
n-Butylbenzene	1	0.025	0.0285	114	0.0282	113	76.2 - 126		0.88	20	
n-Propylbenzene	1	0.025	0.0276	111	0.0265	106	78.2 - 122		4.17	20	
o-Xylene	1	0.025	0.0265	106	0.0255	102	77.6 - 122		3.79	20	
p-Isopropyltoluene	1	0.025	0.0280	112	0.0272	109	74 - 131		3.18	20	
sec-Butylbenzene	1	0.025	0.0271	109	0.0264	106	74.4 - 127		2.73	20	
Styrene	1	0.025	0.0273	109	0.0266	106	80.4 - 126		2.52	20	
tert-Butylbenzene	1	0.025	0.0273	109	0.0263	105	75.3 - 126		3.62	20	
Tetrachloroethene	1	0.025	0.0274	110	0.0264	106	72.6 - 126		3.54	20	
Toluene	1	0.025	0.0268	107	0.0261	104	79.7 - 116		2.86	20	
trans-1,2-Dichloroethene	1	0.025	0.0263	105	0.0241	96.5	72.6 - 121		8.69	20	
trans-1,3-Dichloropropene	1	0.025	0.0294	118	0.0294	118	74.3 - 123		0.01	20	
Trichloroethene	1	0.025	0.0274	110	0.0266	106	77.7 - 118		2.86	20	
Trichlorofluoromethane	1	0.025	0.0272	109	0.0259	103	63.5 - 135		4.85	20	
Vinyl chloride	1	0.025	0.0249	99.6	0.0238	95.3	65.9 - 128		4.5	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Matrix Spike / Matrix Spike Duplicate

L729021-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.0331	<0.0003	0.0332	100	0.0335	101	64 - 128		0.8	20	
1,1,1-Trichloroethane	1	0.0331	<0.0003	0.0303	91.5	0.0301	91	58.7 - 134		0.6	20	
1,1,2,2-Tetrachloroethane	1	0.0331	<0.0004	0.0351	106	0.0342	103	56 - 132		2.64	22.2	
1,1,2-Trichloroethane	1	0.0331	<0.0003	0.0314	95.1	0.0317	95.8	66.3 - 125		0.76	20	
1,1-Dichloroethane	1	0.0331	<0.0002	0.0300	90.6	0.0300	90.8	58.5 - 132		0.25	20	
1,1-Dichloroethene	1	0.0331	<0.0003	0.0314	94.9	0.0322	97.5	51.1 - 140		2.62	20.2	
1,1-Dichloropropene	1	0.0331	<0.0003	0.0296	89.4	0.0301	90.9	57.3 - 136		1.63	20	
1,2,3-Trichlorobenzene	1	0.0331	<0.0003	0.0271	81.8	0.0296	89.4	59.1 - 138		8.86	23.7	
1,2,3-Trichloropropane	1	0.0331	<0.0007	0.0340	103	0.0338	102	61.4 - 128		0.39	22.4	
1,2,4-Trichlorobenzene	1	0.0331	<0.0004	0.0266	80.6	0.0289	87.3	63.6 - 143		8.04	21.9	
1,2,4-Trimethylbenzene	1	0.0331	<0.0002	0.0325	98.3	0.0309	93.3	57.4 - 137		5.15	20	
1,2-Dibromo-3-Chloropropane	1	0.0331	<0.0011	0.0325	98.4	0.0379	115	57.3 - 136		15.3	27	
1,2-Dibromoethane	1	0.0331	<0.0003	0.0323	97.7	0.0337	102	67.1 - 125		4.06	20	
1,2-Dichlorobenzene	1	0.0331	<0.0003	0.0303	91.6	0.0314	94.8	68.2 - 123		3.45	20	
1,2-Dichloroethane	1	0.0331	<0.0003	0.0308	93.3	0.0310	93.8	60 - 126		0.55	20	
1,2-Dichloropropane	1	0.0331	<0.0004	0.0314	95	0.0319	96.6	64.2 - 123		1.65	20	
1,3,5-Trimethylbenzene	1	0.0331	<0.0003	0.0315	95.2	0.0297	90	63.6 - 132		5.67	20.5	
1,3-Dichlorobenzene	1	0.0331	<0.0002	0.0330	99.9	0.0326	98.5	63.1 - 131		1.48	20	
1,3-Dichloropropane	1	0.0331	<0.0002	0.0303	91.7	0.0308	93.2	67.9 - 121		1.64	20	
1,4-Dichlorobenzene	1	0.0331	<0.0002	0.0292	88.3	0.0299	90.5	68.6 - 123		2.39	20	
2,2-Dichloropropane	1	0.0331	<0.0003	0.0300	90.7	0.0312	94.3	50.5 - 144		3.96	21.9	
2-Butanone (MEK)	1	0.165	<0.0047	0.1515	91.6	0.1571	95	22.4 - 138		3.6	27	
2-Chlorotoluene	1	0.0331	<0.0003	0.0321	97	0.0308	93.3	63.6 - 128		3.91	20	
2-Hexanone	1	0.165	<0.0038	0.1618	97.9	0.1678	101	43.3 - 137		3.61	25.5	
4-Chlorotoluene	1	0.0331	<0.0002	0.0321	97.1	0.0302	91.3	65.7 - 127		6.09	20	
4-Methyl-2-pentanone (MIBK)	1	0.165	<0.0019	0.1670	101	0.1683	102	60.8 - 140		0.73	25.1	
Acetone	1	0.165	<0.01	0.1370	80	0.1439	84.1	10 - 130		4.91	27.9	
Benzene	1	0.0331	<0.0003	0.0305	92.1	0.0307	92.9	54.3 - 133		0.87	20	
Bromobenzene	1	0.0331	<0.0003	0.0301	91	0.0296	89.5	63.9 - 124		1.68	20	
Bromochloromethane	1	0.0331	<0.0004	0.0315	95.2	0.0317	95.9	66.5 - 122		0.71	20	
Bromodichloromethane	1	0.0331	<0.0003	0.0330	99.8	0.0329	99.5	63.9 - 121		0.25	20	
Bromoform	1	0.0331	<0.0004	0.0371	112	0.0370	112	59.5 - 134		0.16	20.8	
Bromomethane	1	0.0331	<0.0013	0.0366	111	0.0374	113	41.7 - 155		2.03	20.5	
Carbon disulfide	1	0.0331	<0.0003	0.0296	89.5	0.0307	92.9	43.3 - 149		3.64	21	
Carbon tetrachloride	1	0.0331	<0.0003	0.0313	94.7	0.0316	95.7	55.7 - 134		1.02	20.3	
Chlorobenzene	1	0.0331	<0.0002	0.0287	86.8	0.0287	86.8	67 - 125		0.04	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Matrix Spike / Matrix Spike Duplicate

L729021-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.0331	<0.0004	0.0333	101	0.0341	103	64.3 - 125		2.3	20	
Chloroethane	1	0.0331	<0.0009	0.0350	106	0.0371	112	51.5 - 136		6.08	20.8	
Chloroform	1	0.0331	<0.0002	0.0299	90.3	0.0298	90.1	63 - 129		0.29	20	
Chloromethane	1	0.0331	<0.0004	0.0309	93.4	0.0317	95.9	42.4 - 135		2.64	20	
cis-1,2-Dichloroethene	1	0.0331	<0.0002	0.0297	89.8	0.0307	92.8	59.2 - 129		3.26	20	
cis-1,3-Dichloropropene	1	0.0331	<0.0003	0.0336	102	0.0338	102	66.4 - 125		0.73	20	
Dibromomethane	1	0.0331	<0.0004	0.0314	95	0.0329	99.4	68.2 - 124		4.5	20	
Dichlorodifluoromethane	1	0.0331	<0.0007	0.0308	93.1	0.0328	99.1	40.6 - 144		6.26	20.2	
Ethylbenzene	1	0.0331	<0.0003	0.0302	91.4	0.0303	91.5	61.4 - 133		0.14	20	
Hexachloro-1,3-butadiene	1	0.0331	<0.0003	0.0270	81.8	0.0296	89.6	55.1 - 136		9.07	23.6	
Isopropylbenzene	1	0.0331	<0.0002	0.0310	93.7	0.0302	91.4	66.8 - 141		2.45	20	
m&p-Xylenes	1	0.0661	<0.0007	0.0612	92.6	0.0603	91.2	61.7 - 133		1.55	20	
Methyl tert-butyl ether	1	0.0331	<0.0002	0.0294	89	0.0307	92.8	57.7 - 134		4.18	20	
Methylene Chloride	1	0.0331	0.0013	0.0284	81.9	0.0293	84.6	58.1 - 122		3.19	20	
Naphthalene	1	0.0331	<0.001	0.0261	79	0.0298	90	58 - 135		13.1	25.5	
n-Butylbenzene	1	0.0331	<0.0003	0.0292	88.2	0.0311	94.1	62.7 - 140		6.44	20	
n-Propylbenzene	1	0.0331	<0.0002	0.0307	92.9	0.0298	90	10 - 176		3.21	26.6	
o-Xylene	1	0.0331	<0.0003	0.0302	91.2	0.0297	89.9	63.3 - 130		1.42	20	
p-Isopropyltoluene	1	0.0331	<0.0002	0.0320	96.8	0.0320	96.9	63.2 - 139		0.06	20.4	
sec-Butylbenzene	1	0.0331	<0.0002	0.0321	97	0.0309	93.4	62.2 - 136		3.85	20.3	
Styrene	1	0.0331	<0.0002	0.0309	93.5	0.0314	94.9	66.8 - 133		1.47	20	
tert-Butylbenzene	1	0.0331	<0.0002	0.0325	98.4	0.0316	95.5	63.3 - 134		3.01	20.3	
Tetrachloroethene	1	0.0331	<0.0003	0.0297	89.8	0.0304	91.9	53 - 139		2.27	20	
Toluene	1	0.0331	<0.0004	0.0298	90.2	0.0302	91.4	61.4 - 130		1.38	20	
trans-1,2-Dichloroethene	1	0.0331	<0.0003	0.0285	86.2	0.0294	89	56.5 - 129		3.22	20	
trans-1,3-Dichloropropene	1	0.0331	<0.0003	0.0338	102	0.0348	105	64.1 - 128		2.82	20	
Trichloroethene	1	0.0331	<0.0003	0.0303	91.7	0.0309	93.4	44.1 - 149		1.85	20	
Trichlorofluoromethane	1	0.0331	<0.0004	0.0316	95.7	0.0327	98.8	49.6 - 145		3.18	21.2	
Vinyl chloride	1	0.0331	<0.0003	0.0284	85.9	0.0297	89.9	47.8 - 137		4.49	20	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Matrix Spike / Matrix Spike Duplicate

L729302-05

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	0.0259	104	0.0262	105	64 - 128		1.21	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0232	92.8	0.0238	95.2	58.7 - 134		2.47	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0275	110	0.0270	108	56 - 132		2.08	22.2	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0243	97.2	0.0242	96.6	66.3 - 125		0.63	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0235	94.1	0.0224	89.7	58.5 - 132		4.75	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0249	99.4	0.0225	90.2	51.1 - 140		9.75	20.2	
1,1-Dichloropropene	1	0.025	<0.0004	0.0227	90.7	0.0230	92.2	57.3 - 136		1.64	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0260	104	0.0262	105	59.1 - 138		0.79	23.7	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0262	105	0.0257	103	61.4 - 128		1.91	22.4	
1,2,4-Trichlorobenzene	1	0.025	<0.0002	0.0272	109	0.0268	107	63.6 - 143		1.39	21.9	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0240	96	0.0242	97	57.4 - 137		1.06	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0302	121	0.0288	115	57.3 - 136		4.58	27	
1,2-Dibromoethane	1	0.025	<0.0004	0.0257	103	0.0252	101	67.1 - 125		2.27	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0242	96.7	0.0250	100	68.2 - 123		3.55	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0231	92.3	0.0227	91	60 - 126		1.44	20	
1,2-Dichloropropane	1	0.025	0.0011	0.0249	95.2	0.0245	93.7	64.2 - 123		1.52	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0234	93.6	0.0235	94	63.6 - 132		0.41	20.5	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0249	99.5	0.0251	100	63.1 - 131		0.9	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0236	94.6	0.0237	94.7	67.9 - 121		0.17	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0239	95.4	0.0248	99.4	68.6 - 123		4.07	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0245	98.1	0.0241	96.2	50.5 - 144		1.91	21.9	
2-Butanone (MEK)	1	0.125	<0.0039	0.1270	102	0.1195	95.6	22.4 - 138		6.11	27	
2-Chlorotoluene	1	0.025	<0.0004	0.0241	96.4	0.0251	100	63.6 - 128		3.94	20	
2-Hexanone	1	0.125	<0.0038	0.1481	118	0.1303	104	43.3 - 137		12.8	25.5	
4-Chlorotoluene	1	0.025	<0.0004	0.0242	96.9	0.0243	97.3	65.7 - 127		0.37	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1451	116	0.1358	109	60.8 - 140		6.64	25.1	
Acetone	1	0.125	<0.01	0.1177	92.9	0.1002	78.9	10 - 130		16.1	27.9	
Benzene	1	0.025	<0.0003	0.0224	89.7	0.0235	93.9	54.3 - 133		4.55	20	
Bromobenzene	1	0.025	<0.0004	0.0230	91.9	0.0233	93.2	63.9 - 124		1.36	20	
Bromochloromethane	1	0.025	<0.0005	0.0241	96.6	0.0241	96.3	66.5 - 122		0.23	20.8	
Bromodichloromethane	1	0.025	<0.0004	0.0255	101	0.0257	102	63.9 - 121		0.97	20	
Bromoform	1	0.025	<0.0005	0.0300	120	0.0285	114	59.5 - 134		5.31	20.5	
Bromomethane	1	0.025	<0.0009	0.0281	112	0.0252	101	41.7 - 155		10.6	21.9	
Carbon disulfide	1	0.025	<0.0003	0.0208	83.1	0.0187	74.9	43.3 - 149		10.3	20.3	
Carbon tetrachloride	1	0.025	<0.0004	0.0247	98.8	0.0246	98.4	55.7 - 134		0.4	20	
Chlorobenzene	1	0.025	<0.0003	0.0229	91.7	0.0229	91.7	67 - 125		0.04	20	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Matrix Spike / Matrix Spike Duplicate

L729302-05

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0257	103	0.0256	102	64.3 - 125		0.73	20.8	
Chloroethane	1	0.025	<0.0005	0.0282	113	0.0256	102	51.5 - 136		9.81	40	
Chloroform	1	0.025	<0.0003	0.0235	94	0.0234	93.5	63 - 129		0.58	20	
Chloromethane	1	0.025	<0.0003	0.0228	91.3	0.0210	83.9	42.4 - 135		8.41	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0232	92.7	0.0230	91.9	59.2 - 129		0.83	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0258	103	0.0252	101	66.4 - 125		2.43	20	
Dibromomethane	1	0.025	<0.0003	0.0249	99.6	0.0243	97.4	68.2 - 124		2.24	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0231	92.4	0.0212	85	40.6 - 144		8.38	20.2	
Ethylbenzene	1	0.025	<0.0004	0.0241	96.4	0.0238	95.4	61.4 - 133		1.01	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0242	96.8	0.0252	101	55.1 - 136		4.17	23.6	
Isopropylbenzene	1	0.025	<0.0003	0.0240	95.9	0.0241	96.5	66.8 - 141		0.68	20	
m&p-Xylenes	1	0.05	<0.0007	0.0473	94.6	0.0488	97.5	61.7 - 133		3.06	20	
Methyl tert-butyl ether	1	0.025	0.0342	0.0553	84.6	0.0518	70.5	57.7 - 134		6.56	20	
Methylene Chloride	1	0.025	<0.001	0.0214	85.6	0.0200	80.2	58.1 - 122		6.49	20	
Naphthalene	1	0.025	<0.001	0.0253	101	0.0245	97.9	58 - 135		3.31	25.5	
n-Butylbenzene	1	0.025	<0.0004	0.0254	102	0.0264	106	62.7 - 140		4.08	20.3	
n-Propylbenzene	1	0.025	<0.0003	0.0241	96.6	0.0245	97.9	65.9 - 131		1.38	20	
o-Xylene	1	0.025	<0.0003	0.0234	93.7	0.0235	93.9	63.3 - 130		0.18	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0246	98.4	0.0247	99	63.2 - 139		0.6	20.4	
sec-Butylbenzene	1	0.025	<0.0004	0.0238	95.4	0.0244	97.5	62.2 - 136		2.16	20.3	
Styrene	1	0.025	<0.0003	0.0244	97.6	0.0241	96.3	66.8 - 133		1.43	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0240	95.9	0.0248	99	63.3 - 134		3.19	21	
Tetrachloroethene	1	0.025	<0.0004	0.0232	92.8	0.0237	94.9	53 - 139		2.22	20	
Toluene	1	0.025	<0.0008	0.0228	91.2	0.0230	91.9	61.4 - 130		0.74	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0220	87.9	0.0207	82.7	56.5 - 129		6.06	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0267	107	0.0261	105	64.1 - 128		2.01	20	
Trichloroethene	1	0.025	<0.0004	0.0232	92.8	0.0234	93.8	44.1 - 149		1.07	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0257	103	0.0234	93.4	49.6 - 145		9.56	21.2	
Vinyl chloride	1	0.025	<0.0003	0.0218	87.2	0.0199	79.5	47.8 - 137		9.31	20	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Internal Standard Response and Retention Time Summary

File ID: 1028_32
Analyzed: 10/28/14 235100

	DCB		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	291848	7.68	714536	4.21	122729	5.33	391699	3.90
Upper Limit	584000	8.18	1430000	4.71	245000	5.83	783000	4.40
Lower Limit	146000	7.18	357000	3.71	61400	4.83	196000	3.40
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
MSD WG750239	250243	7.68	565621	4.21	99502	5.33	313662	3.90
MS WG750239	267219	7.68	587817	4.21	105138	5.33	325378	3.90
LCSD WG750239	247302	7.68	573678	4.21	103190	5.33	325102	3.90
LCS WG750239	240365	7.68	591997	4.21	102041	5.33	328134	3.90
BLANK WG750239	167081	7.68	460122	4.21	74681	5.33	251041	3.90

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Internal Standard Response and Retention Time Summary

File ID: 1028_56
Analyzed: 10/29/14 111300

	DCB		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	253907	7.68	613098	4.21	105799	5.33	340637	3.90
Upper Limit	584000	8.18	1430000	4.71	245000	5.83	783000	4.40
Lower Limit	146000	7.18	357000	3.71	61400	4.83	196000	3.40
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729026-01 1.08X	199538	7.68	536352	4.21	88041	5.33	293269	3.90
L729026-02	194627	7.68	525782	4.21	88585	5.33	288662	3.90
L729026-03	193410	7.68	518123	4.21	83501	5.33	290575	3.90
L729026-05	189347	7.68	515899	4.21	85148	5.33	284376	3.90
L729026-06	225205	7.68	614735	4.21	103754	5.33	339435	3.90

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
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Internal Standard Response and Retention Time Summary

File ID: 1028_02
Analyzed: 10/28/14 091000

	DCB		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	247394	7.68	602410	4.21	103034	5.33	333500	3.90
Upper Limit	495000	8.18	1200000	4.71	206000	5.83	667000	4.40
Lower Limit	124000	7.18	301000	3.71	51500	4.83	167000	3.40
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729026-04	164927	7.68	424236	4.21	72046	5.33	233683	3.90
MSD WG751179	237581	7.68	583029	4.21	102021	5.33	319003	3.90
MS WG751179	257310	7.68	616793	4.21	107709	5.33	343350	3.90
LCSD WG751179	254097	7.68	588007	4.21	106448	5.33	319772	3.90
LCS WG751179	250034	7.68	581163	4.21	102703	5.33	320129	3.90
BLANK WG751179	169294	7.68	454604	4.21	74702	5.33	248329	3.90

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

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Mt. Juliet, TN 37122
(615) 758-5858
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750239**
Analysis Date:	10/29/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729026-01 1.08x	VOCMS21	1028_58	0.0377	94.3	0.0402	101	0.0386	96.4		
L729026-02	VOCMS21	1028_59	0.0368	91.9	0.0407	102	0.0383	95.8		
L729026-03	VOCMS21	1028_60	0.0387	96.8	0.0395	98.9	0.0385	96.2		
L729026-05	VOCMS21	1028_61	0.0376	93.9	0.0401	100	0.0378	94.5		
L729026-06	VOCMS21	1028_62	0.0376	94.1	0.0399	99.8	0.0389	97.2		
LCS WG750239	VOCMS21	1028_33	0.0382	95.6	0.0369	92.1	0.0395	98.7	0.0415	104
LCSD WG750239	VOCMS21	1028_34	0.0378	94.5	0.0360	90.0	0.0399	99.6	0.0428	107
BLANK WG750239	VOCMS21	1028_36	0.0385	96.2	0.0398	99.4	0.0393	98.3	0.0411	103
MS WG750239	VOCMS21	1028_37	0.0383	95.8	0.0383	95.7	0.0393	98.4	0.0407	102
MSD WG750239	VOCMS21	1028_38	0.0372	93.1	0.0385	96.2	0.0383	95.8	0.0403	101

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0055AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG751179**
Analysis Date:	10/28/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729026-04		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729026-04	VOCMS21	1028_12	0.0383	95.7	0.0394	98.5	0.0403	101		
LCS WG751179	VOCMS21	1028_03	0.0385	96.2	0.0405	101	0.0407	102	0.0431	108
LCSD WG751179	VOCMS21	1028_04	0.0370	92.4	0.0375	93.8	0.0402	100	0.0425	106
MS WG751179	VOCMS21	1028_05	0.0394	98.4	0.0398	99.4	0.0398	99.6	0.0422	106
MSD WG751179	VOCMS21	1028_06	0.0381	95.4	0.0381	95.3	0.0388	97.1	0.0415	104
BLANK WG751179	VOCMS21	1028_09	0.0388	97.0	0.0394	98.6	0.0393	98.2	0.0410	102

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Instrument Performance Summary

FileID: 1028_32.D Date: 10/28/2014 Time: 11:51 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	18.3
75	30 - 60% of mass 95	46.9
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.4
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	68.6
175	5 - 9% of mass 174	8
176	95 - 101% of mass 174	95.1
177	5 - 9% of mass 176	6.7

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG750239	LCS WG750239	1028_33.D	10/29/2014	12:07 AM
LCSD WG750239	LCSD WG750239	1028_34.D	10/29/2014	12:29 AM
Blank WG750239	Blank WG750239	1028_36.D	10/29/2014	1:39 AM
MS WG750239	MS WG750239	1028_37.D	10/29/2014	2:01 AM
MSD WG750239	MSD WG750239	1028_38.D	10/29/2014	2:23 AM

*** - calibrated by linear regression*

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Instrument Performance Summary

FileID: 1028_56.D Date: 10/29/2014 Time: 11:13 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	19
75	30 - 60% of mass 95	48.6
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.1
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	66.2
175	5 - 9% of mass 174	8.1
176	95 - 101% of mass 174	97.9
177	5 - 9% of mass 176	6.6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
TU503-SB01-DS01	L729026-01	1028_58.D	10/29/2014	12:04 PM
TU503-SB01-NS01	L729026-02	1028_59.D	10/29/2014	12:26 PM
TU503-SB01-NS02	L729026-03	1028_60.D	10/29/2014	12:48 PM
TU503-SB05-NS01	L729026-05	1028_61.D	10/29/2014	1:10 PM
TU503-SB05-NS02	L729026-06	1028_62.D	10/29/2014	1:40 PM

*** - calibrated by linear regression*

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Mt. Juliet, TN 37122
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Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Instrument Performance Summary

FileID: 1028_02.D Date: 10/28/2014 Time: 9:10 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	18.4
75	30 - 60% of mass 95	49.2
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	5
173	0 - 2% of mass 174	1.2
174	50 - 150% of mass 95	65.4
175	5 - 9% of mass 174	8
176	95 - 101% of mass 174	95.6
177	5 - 9% of mass 176	6.6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG751179	LCS WG751179	1028_03.D	10/28/2014	9:43 AM
LCSD WG751179	LCSD WG751179	1028_04.D	10/28/2014	10:05 AM
MS WG751179	MS WG751179	1028_05.D	10/28/2014	11:54 AM
MSD WG751179	MSD WG751179	1028_06.D	10/28/2014	12:16 PM
Blank WG751179	Blank WG751179	1028_09.D	10/28/2014	1:22 PM
TU503-TRIPBLANK04-NT01	L729026-04	1028_12.D	10/28/2014	2:46 PM

*** - calibrated by linear regression*

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Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.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 100	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE		0.427	0.347	0.295	0.230	0.201	0.178	0.183	0.182	0.247156	36.39
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.611766	12.43
CHLOROMETHANE	1.030	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.960	1.070272	16.41
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.045378	11.70
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.760	0.651	0.660	0.716	0.741	0.765608	12.28
BROMOMETHANE					0.696	0.491	0.440	0.457	0.458	0.501045	19.30
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.168324	13.65
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.780	0.849	0.900	0.888319	13.81
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.337705	13.11
ETHYL ETHER	0.469	0.730	0.660	0.680	0.642	0.533	0.538	0.571	0.604	0.600904	13.06
ACROLEIN		0.124	0.115	0.106	0.110	0.095	0.089	0.097	0.104	0.104633	10.14
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.055948	10.71
1,1,2-TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.730	0.733	0.680	0.586	0.624	0.680	0.716	0.687081	10.69
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.192852	15.00
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.869779	15.36
CARBON DISULFIDE	2.229	2.840	2.575	2.593	2.298	2.050	2.162	2.453	2.554	2.433482	9.96
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.805789	14.03
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.238862	12.08
n-Hexane	0.669	1.021	1.020	0.964	0.891	0.793	0.812	0.937	0.923	0.894767	12.23
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.738605	9.66
METHYL TERT-BUTYL ETHER	1.634	2.260	2.317	2.248	2.136	1.868	1.910	2.136	2.186	2.089490	10.34
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.464298	8.29
VINYL ACETATE	0.893	1.120	1.318	1.409	1.231	1.073	1.192	1.264	1.188	1.168171	13.13
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.400	2.557	2.899	2.925	2.733644	10.89
2,2-Dichloropropane	0.900	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.061469	9.63
CIS-1,2-DICHLOROETHENE	0.540	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.769104	14.08
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.085347	11.49

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.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 100	Average RRF	%RSD
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.376727	11.00
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.233927	11.02
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.200	1.288	1.279	1.230830	7.37
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.520	0.501988	3.20
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.080	1.086	1.006217	12.01
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	0.890101	14.72
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.158918	10.51
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	3.915122	8.92
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.740	1.730	1.572889	13.85
BENZENE	2.730	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.326471	8.90
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.876153	7.51
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.388255	8.84
1,2-DICHLOROPROPANE	0.221	0.357	0.360	0.350	0.304	0.291	0.321	0.352	0.344	0.324422	13.30
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.200	0.172	0.190	0.205	0.203	0.196627	12.57
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.473839	13.60
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.498061	2.46
2-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.111060	13.49
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.610	0.597	0.553	0.650	0.720	0.724	0.624370	13.86
4-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.150	0.156	0.162	0.150385	12.18
TOLUENE-D8	1.309	1.305	1.309	1.240	1.280	1.277	1.298	1.297	1.264	1.281335	2.16
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.906215	10.61
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.122453	13.88
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.720	1.928	1.930	1.882867	8.46
TETRACHLOROETHENE	1.288	1.791	1.870	1.700	1.523	1.365	1.502	1.714	1.752	1.629039	12.10
1,3-Dichloropropane	3.530	4.382	4.086	4.000	3.617	3.267	3.459	3.753	3.803	3.766505	8.67
2-HEXANONE			0.761	0.650	0.839	0.757	0.798	0.845	0.938	0.812815	11.41
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.880	1.658134	9.97
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.490	1.587	1.750	1.795	1.642784	6.63
CHLOROBENZENE	5.709	7.380	7.304	6.709	5.781	5.297	5.945	6.620	6.779	6.451333	11.16

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.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 100	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	1.280	1.670	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.697925	12.47
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	3.553273	12.40
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	4.371278	13.09
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.155571	11.27
STYRENE		6.639	6.050	6.309	5.759	5.666	6.596	7.162	7.677	6.628967	11.79
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.070	0.887959	15.43
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	11.10407	12.91
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.593080	2.58
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.400	4.866	5.377	5.538	5.182816	10.58
1,1,2,2-TETRACHLOROETHANE	1.895	2.910	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.443572	11.38
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.660605	6.09
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.680	0.733	0.611329	14.66
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	13.78357	11.27
4-ETHYLTOLUENE	8.29	11.56	11.16	10.80	9.95	9.57	10.75	11.88	12.22	10.86318	11.94
2-Chlorotoluene	1.860	2.682	2.497	2.616	2.282	2.108	2.394	2.620	2.700	2.456866	12.13
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	7.800333	12.98
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.20	10.20	10.52	9.40328	11.62
tert-Butylbenzene	5.257	7.920	8.030	8.095	6.835	6.706	7.639	8.439	8.565	7.629434	14.16
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.20	8.94187	14.18
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.20	12.69765	12.18
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.770	4.267890	12.67
p-Isopropyltoluene	6.54	9.49	10.33	9.94	9.01	8.62	9.83	10.86	11.29	9.76767	15.33
DICYCLOPENTADIENE	9.34	13.30	12.82	13.41	12.02	11.35	12.85	14.37	14.66	12.84556	12.59
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.990	1.790	1.640	1.822	1.935	1.982	1.924168	9.86
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.400	4.361	3.904	3.469	3.928	4.178	4.208	3.994494	11.54
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.677066	10.46
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	3.930775	13.86
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.130	0.135	0.146	0.135128	7.31
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	0.908050	13.68

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(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.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 100	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.630	0.544	0.456	0.528	0.564	0.533	0.546882	15.31
Naphthalene		0.692	1.056	1.509	1.906	1.640	1.989	2.236	2.433	1.784534	35.25
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.780	0.847	0.935	0.803333	12.87
1-Methylnaphthalene										0.000000	0.00
2-Methylnaphthalene										0.000000	0.00
ETHANOL										0.006884	10.35
Bromoethane										0.455995	9.14
2-PROPANOL										0.040100	6.72
Methyl Acetate										0.437487	4.62
ACETONITRILE										0.085743	4.93
ALLYL CHLORIDE										0.346224	5.37
tert-BUTYL ALCOHOL										0.089563	7.19
chloroprene										0.708232	4.00
ETHYL TERT-BUTYL ETHER										2.177364	3.76
PROPIONITRILE										0.094343	3.75
Ethyl Acetate										0.612038	4.53
METHACRYLONITRILE										0.292252	3.94
Cyclohexane										1.266836	4.57
tert-butyl formate										0.286589	6.81
ISOBUTANOL										0.000000	0.00
t-Amyl Alcohol										0.054948	9.86
TERT-AMYL METHYL ETHER										2.016199	6.62
N-BUTANOL										0.011102	19.45
Methyl Cyclohexane										0.825828	15.16
2-nitropropane										0.073628	12.70
METHYL METHACRYLATE										0.348250	8.82
1,4-DIOXANE										0.004168	6.80
n-octane										0.394143	7.92
3,3-DIMETHYL-1-BUTANOL										0.023167	20.81

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Quality Control Summary
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URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.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 100	Average RRF	%RSD
ETHYL METHACRYLATE										2.979101	9.90
CIS-1,4-DICHLORO-2-BUTENE										0.610665	8.35
Cyclohexanone										0.508509	5.32
PENTACHLOROETHANE										0.000000	0.00
Hexachloroethane										1.249422	5.74

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/28/2014
FileName : 1028_32.D Time : 11:51 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dichlorodifluoromethane	0.6118	0.5333	12.8		
Chloromethane	1.0703	0.8920	8.48	>0.1	**
Vinyl chloride	1.0454	0.8938	14.5		
Bromomethane	0.5010	0.5044	4.72		**
Chloroethane	0.1683	0.1834	8.95		
Trichlorofluoromethane	0.8883	0.8530	3.98		
1,1-Dichloroethene	1.0559	1.0350	1.98		
Acetone	0.1929	0.1885	2.26		
Carbon Disulfide	2.4335	2.4816	1.98		
Methylene Chloride	0.8058	0.6813	15.4		
trans-1,2-Dichloroethene	0.7386	0.6727	8.93		
Methyl tert-butyl ether	2.0895	1.8816	9.95		
1,1-Dichloroethane	1.4643	1.3269	9.38	>0.1	
2,2-Dichloropropane	1.0615	1.0260	3.34		
cis-1,2-Dichloroethene	0.7691	0.7000	8.99		
2-Butanone (MEK)	0.0853	0.0827	3.04		
Bromochloromethane	0.3767	0.3551	5.75		
Chloroform	1.2308	1.1001	10.6		
1,1,1-Trichloroethane	1.0062	0.9152	9.04		
Carbon tetrachloride	0.8901	0.8496	4.55		
1,1-Dichloropropene	1.1589	1.0774	7.03		
Benzene	3.3265	3.0135	9.41		
1,2-Dichloroethane	0.8762	0.7885	10		
Trichloroethene	0.3883	0.3551	8.55		
1,2-Dichloropropane	0.3244	0.3006	7.35		
Dibromomethane	0.1966	0.1808	8.06		
Bromodichloromethane	0.4738	0.4493	5.19		
cis-1,3-Dichloropropene	0.6244	0.6295	0.82		
4-Methyl-2-pentanone (MIBK)	0.1504	0.1570	4.4		
Toluene	1.9062	1.6736	12.2		
trans-1,3-Dichloropropene	0.1225	0.1229	0.34		

*** - calibrated by linear regression*

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(800) 767-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/28/2014
FileName : 1028_32.D Time : 11:51 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.8829	1.6923	10.1	
Tetrachloroethene	1.6290	1.5301	6.08	
1,3-Dichloropropane	3.7665	3.4459	8.51	
2-Hexanone	0.8128	0.9105	12	
Chlorodibromomethane	1.6581	1.5956	3.77	
1,2-Dibromoethane	1.6428	1.6060	2.24	
Chlorobenzene	6.4513	5.7173	11.4	>0.3
1,1,1,2-Tetrachloroethane	1.6979	1.6370	3.59	
Ethylbenzene	3.5533	3.2350	8.96	
m&p-Xylene	4.3713	4.0705	6.88	
o-Xylene	4.1556	3.7447	9.89	
Styrene	6.6290	6.1035	7.93	
Bromoform	0.8880	0.9879	11.3	>0.1
Isopropylbenzene	11.1041	10.3342	6.93	
Bromobenzene	5.1828	4.6345	10.6	
1,1,2,2-Tetrachloroethane	2.4436	2.4416	0.08	>0.3
1,2,3-Trichloropropane	0.6606	0.6442	2.49	
n-Propylbenzene	13.7836	12.8502	6.77	
2-Chlorotoluene	2.4569	2.2704	7.59	
4-Chlorotoluene	7.8003	7.2433	7.14	
1,3,5-Trimethylbenzene	9.4033	8.5033	9.57	
tert-Butylbenzene	7.6294	7.0403	7.72	
1,2,4-Trimethylbenzene	8.9419	8.3672	6.43	
sec-Butylbenzene	12.6977	11.7624	7.37	
1,3-Dichlorobenzene	4.2679	4.0519	5.06	
p-Isopropyltoluene	9.7677	9.3380	4.4	
1,4-Dichlorobenzene	1.9242	1.7634	8.36	
1,2-Dichlorobenzene	1.6771	1.5413	8.09	
n-Butylbenzene	3.9308	3.9012	0.75	
1,2-Dibromo-3-Chloropropane	0.1351	0.1490	10.2	
1,2,4-Trichlorobenzene	0.9081	0.9144	0.7	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/28/2014
FileName : 1028_32.D Time : 11:51 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Hexachloro-1,3-butadiene	0.5469	0.5248	4.03	
Naphthalene	1.7845	2.1512	6.28	**
1,2,3-Trichlorobenzene	0.8033	0.7917	1.45	

*** - calibrated by linear regression*

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Quality Control Summary
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Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/29/2014
FileName : 1028_56.D Time : 11:13 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dichlorodifluoromethane	0.6118	0.5972	2.37		
Chloromethane	1.0703	1.0663	9.51	>0.1	**
Vinyl chloride	1.0454	1.0549	0.91		
Bromomethane	0.5010	0.6425	35.3		**
Chloroethane	0.1683	0.2118	25.8		
Trichlorofluoromethane	0.8883	0.9846	10.8		
1,1-Dichloroethene	1.0559	1.1726	11		
Acetone	0.1929	0.1833	4.93		
Carbon Disulfide	2.4335	2.6447	8.68		
Methylene Chloride	0.8058	0.7426	7.84		
trans-1,2-Dichloroethene	0.7386	0.7457	0.96		
Methyl tert-butyl ether	2.0895	2.0590	1.46		
1,1-Dichloroethane	1.4643	1.4821	1.22	>0.1	
2,2-Dichloropropane	1.0615	1.1149	5.03		
cis-1,2-Dichloroethene	0.7691	0.7828	1.78		
2-Butanone (MEK)	0.0853	0.0861	0.89		
Bromochloromethane	0.3767	0.3869	2.69		
Chloroform	1.2308	1.2432	1		
1,1,1-Trichloroethane	1.0062	1.0468	4.04		
Carbon tetrachloride	0.8901	0.9394	5.54		
1,1-Dichloropropene	1.1589	1.1835	2.12		
Benzene	3.3265	3.3298	0.1		
1,2-Dichloroethane	0.8762	0.8607	1.76		
Trichloroethene	0.3883	0.3992	2.83		
1,2-Dichloropropane	0.3244	0.3373	3.96		
Dibromomethane	0.1966	0.2002	1.83		
Bromodichloromethane	0.4738	0.4967	4.82		
cis-1,3-Dichloropropene	0.6244	0.6714	7.53		
4-Methyl-2-pentanone (MIBK)	0.1504	0.1665	10.7		
Toluene	1.9062	1.8926	0.71		
trans-1,3-Dichloropropene	0.1225	0.1309	6.87		

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/29/2014
FileName : 1028_56.D Time : 11:13 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.8829	1.8989	0.85	
Tetrachloroethene	1.6290	1.7247	5.87	
1,3-Dichloropropane	3.7665	3.7440	0.6	
2-Hexanone	0.8128	0.9184	13	
Chlorodibromomethane	1.6581	1.7400	4.94	
1,2-Dibromoethane	1.6428	1.7725	7.9	
Chlorobenzene	6.4513	6.2687	2.83	>0.3
1,1,1,2-Tetrachloroethane	1.6979	1.8691	10.1	
Ethylbenzene	3.5533	3.7010	4.16	
m&p-Xylene	4.3713	4.6084	5.42	
o-Xylene	4.1556	4.2101	1.31	
Styrene	6.6290	6.8072	2.69	
Bromoform	0.8880	1.0587	19.2	>0.1
Isopropylbenzene	11.1041	11.6121	4.58	
Bromobenzene	5.1828	5.0815	1.96	
1,1,2,2-Tetrachloroethane	2.4436	2.5729	5.29	>0.3
1,2,3-Trichloropropane	0.6606	0.6922	4.79	
n-Propylbenzene	13.7836	14.4568	4.88	
2-Chlorotoluene	2.4569	2.5482	3.72	
4-Chlorotoluene	7.8003	8.1472	4.45	
1,3,5-Trimethylbenzene	9.4033	9.7427	3.61	
tert-Butylbenzene	7.6294	8.1725	7.12	
1,2,4-Trimethylbenzene	8.9419	9.5442	6.74	
sec-Butylbenzene	12.6977	13.3479	5.12	
1,3-Dichlorobenzene	4.2679	4.6430	8.79	
p-Isopropyltoluene	9.7677	10.5219	7.72	
1,4-Dichlorobenzene	1.9242	1.9380	0.72	
1,2-Dichlorobenzene	1.6771	1.7294	3.12	
n-Butylbenzene	3.9308	4.3355	10.3	
1,2-Dibromo-3-Chloropropane	0.1351	0.1488	10.1	
1,2,4-Trichlorobenzene	0.9081	1.0048	10.7	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/29/2014
FileName : 1028_56.D Time : 11:13 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Hexachloro-1,3-butadiene	0.5469	0.5938	8.58	
Naphthalene	1.7845	2.2609	2.06	**
1,2,3-Trichlorobenzene	0.8033	0.8656	7.75	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/28/2014
FileName : 1028_02.D Time : 9:10 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dichlorodifluoromethane	0.6118	0.5680	7.16		
Chloromethane	1.0703	0.9322	4.33	>0.1	**
Vinyl chloride	1.0454	0.9439	9.71		
Bromomethane	0.5010	0.5449	13.7		**
Chloroethane	0.1683	0.1827	8.56		
Trichlorofluoromethane	0.8883	0.8748	1.52		
1,1-Dichloroethene	1.0559	1.0503	0.54		
Acetone	0.1929	0.1644	14.7		
Carbon Disulfide	2.4335	2.4315	0.08		
Methylene Chloride	0.8058	0.6835	15.2		
trans-1,2-Dichloroethene	0.7386	0.6977	5.54		
Methyl tert-butyl ether	2.0895	1.8748	10.3		
1,1-Dichloroethane	1.4643	1.3987	4.48	>0.1	
2,2-Dichloropropane	1.0615	1.0592	0.21		
cis-1,2-Dichloroethene	0.7691	0.7406	3.71		
2-Butanone (MEK)	0.0853	0.0790	7.47		
Bromochloromethane	0.3767	0.3840	1.94		
Chloroform	1.2308	1.1922	3.14		
1,1,1-Trichloroethane	1.0062	0.9661	3.99		
Carbon tetrachloride	0.8901	0.9139	2.68		
1,1-Dichloropropene	1.1589	1.1688	0.85		
Benzene	3.3265	3.4234	2.91		
1,2-Dichloroethane	0.8762	0.8729	0.38		
Trichloroethene	0.3883	0.4067	4.75		
1,2-Dichloropropane	0.3244	0.3451	6.37		
Dibromomethane	0.1966	0.2063	4.93		
Bromodichloromethane	0.4738	0.5186	9.45		
cis-1,3-Dichloropropene	0.6244	0.7135	14.3		
4-Methyl-2-pentanone (MIBK)	0.1504	0.1599	6.34		
Toluene	1.9062	1.9490	2.25		
trans-1,3-Dichloropropene	0.1225	0.1409	15.1		

*** - 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: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/28/2014
FileName : 1028_02.D Time : 9:10 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.8829	1.9653	4.38	
Tetrachloroethene	1.6290	1.7580	7.92	
1,3-Dichloropropane	3.7665	3.8342	1.8	
2-Hexanone	0.8128	0.8863	9.05	
Chlorodibromomethane	1.6581	1.8151	9.47	
1,2-Dibromoethane	1.6428	1.7969	9.38	
Chlorobenzene	6.4513	6.6712	3.41	>0.3
1,1,1,2-Tetrachloroethane	1.6979	1.9261	13.4	
Ethylbenzene	3.5533	3.8656	8.79	
m&p-Xylene	4.3713	4.8106	10.1	
o-Xylene	4.1556	4.3972	5.82	
Styrene	6.6290	7.1677	8.13	
Bromoform	0.8880	1.1048	24.4	>0.1
Isopropylbenzene	11.1041	12.1139	9.09	
Bromobenzene	5.1828	5.3953	4.1	
1,1,2,2-Tetrachloroethane	2.4436	2.6337	7.78	>0.3
1,2,3-Trichloropropane	0.6606	0.6783	2.69	
n-Propylbenzene	13.7836	15.0286	9.03	
2-Chlorotoluene	2.4569	2.6578	8.18	
4-Chlorotoluene	7.8003	8.5766	9.95	
1,3,5-Trimethylbenzene	9.4033	10.1278	7.7	
tert-Butylbenzene	7.6294	8.2181	7.72	
1,2,4-Trimethylbenzene	8.9419	9.7310	8.82	
sec-Butylbenzene	12.6977	13.6632	7.6	
1,3-Dichlorobenzene	4.2679	4.7676	11.7	
p-Isopropyltoluene	9.7677	10.8411	11	
1,4-Dichlorobenzene	1.9242	2.0169	4.82	
1,2-Dichlorobenzene	1.6771	1.7813	6.22	
n-Butylbenzene	3.9308	4.4454	13.1	
1,2-Dibromo-3-Chloropropane	0.1351	0.1450	7.31	
1,2,4-Trichlorobenzene	0.9081	1.0001	10.1	

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/28/2014
FileName : 1028_02.D Time : 9:10 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Hexachloro-1,3-butadiene	0.5469	0.5815	6.33	
Naphthalene	1.7845	2.0825	8.93	**
1,2,3-Trichlorobenzene	0.8033	0.8512	5.96	

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Ben Baker
Date Released : 10/28/2014 9:46:05 PM

Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1028_01	INSTBLK	V821I16N						1	1	10/28/14 0848	"water SSURR14I25028"
2	1028_01T	INSTBLK VMS								1	10/28/14 0848	
3	1028_02	ICV VMS 25 PPB 14J27646	V821I16N						1	1	10/28/14 0910	"water SSURR14I25028"
4	1028_02T	ICV VMS 25 ppb 14J27646	V821I16N							1	10/28/14 0910	
5	1028_03	LCS	V821I16N	WG751179	V8260	GW			1	1	10/28/14 0943	"water SSURR14I25028/SPK14J27647"
6	1028_04	LCSD	V821I16N	WG751179	V8260	GW			1	1	10/28/14 1005	"water SSURR14I25028/SPK14J27647"
7	1028_05	MS	V821I16N	WG751179	V8260	GW			1	1	10/28/14 1154	"water SSURR14I25028/SPK14J27647"
8	1028_06	MSD	V821I16N	WG751179	V8260	GW			1	1	10/28/14 1216	"water SSURR14I25028/SPK14J27647"
9	1028_07	INSTBLK	V821I16N						1	1	10/28/14 1238	"water SSURR14I25028"
10	1028_08	INSTBLK	V821I16N						1	1	10/28/14 1300	"water SSURR14I25028"
11	1028_09	BLANK	V821I16N	WG751179	V8260	GW			1	1	10/28/14 1322	"water SSURR14I25028"
12	1028_10	L729021-03 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1402	"water SSURR14I25028"
13	1028_11	L729024-03 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1424	"water SSURR14I25028"
14	1028_12	L729026-04 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1446	"water SSURR14I25028"
15	1028_13	L729030-03 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1508	"water SSURR14I25028"
16	1028_14	L729032-03 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1530	"water SSURR14I25028"
17	1028_15	L729034-07 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1552	"water SSURR14I25028"
18	1028_16	L729094-06 (TB)	V821I16N	WG751179	V8260	GW	USAENVGCO	CO	1	1	10/28/14 1614	"water SSURR14I25028"
19	1028_17	L729302-05	V821I16N	WG751179	V8260BTEXMNI	GW	INSITE	PA	1	1	10/28/14 1637	"water SSURR14I25028"
20	1028_18	L729008-12	V821I16N	WG751179	V8260	GW	LINFUNLKY	KY	1000	1000	10/28/14 1659	"water SSURR14I25028"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

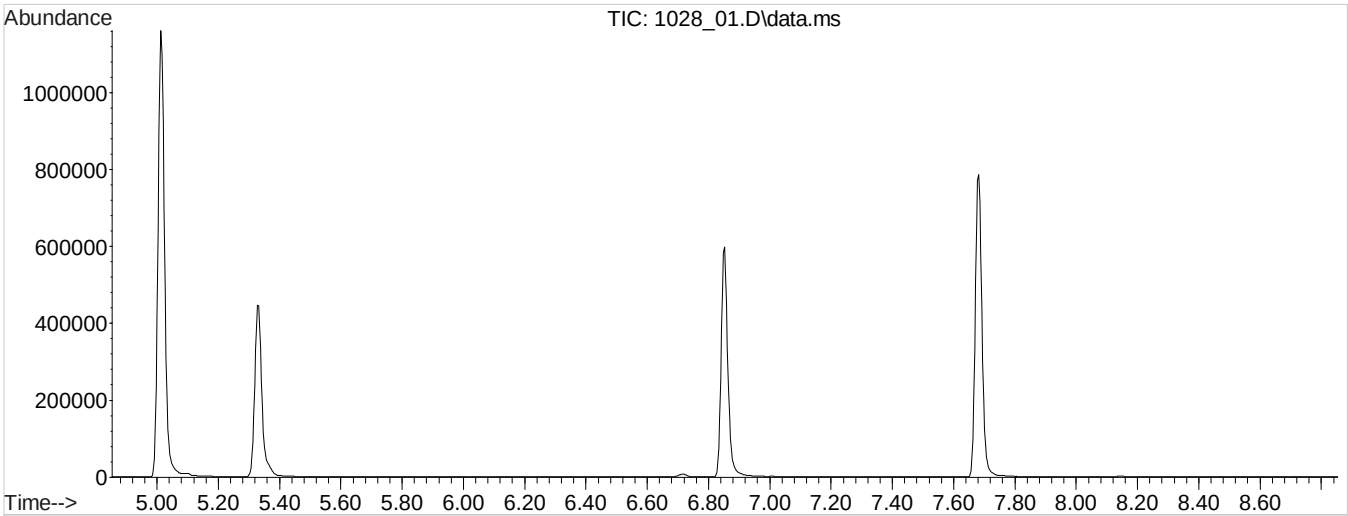
Instrument ID : VOCMS21
Computer Name : VOCCOMPAI
Released By : Ben Baker
Date Released : 10/28/2014 9:46:05 PM
Run ID : 102814
Signature : _____

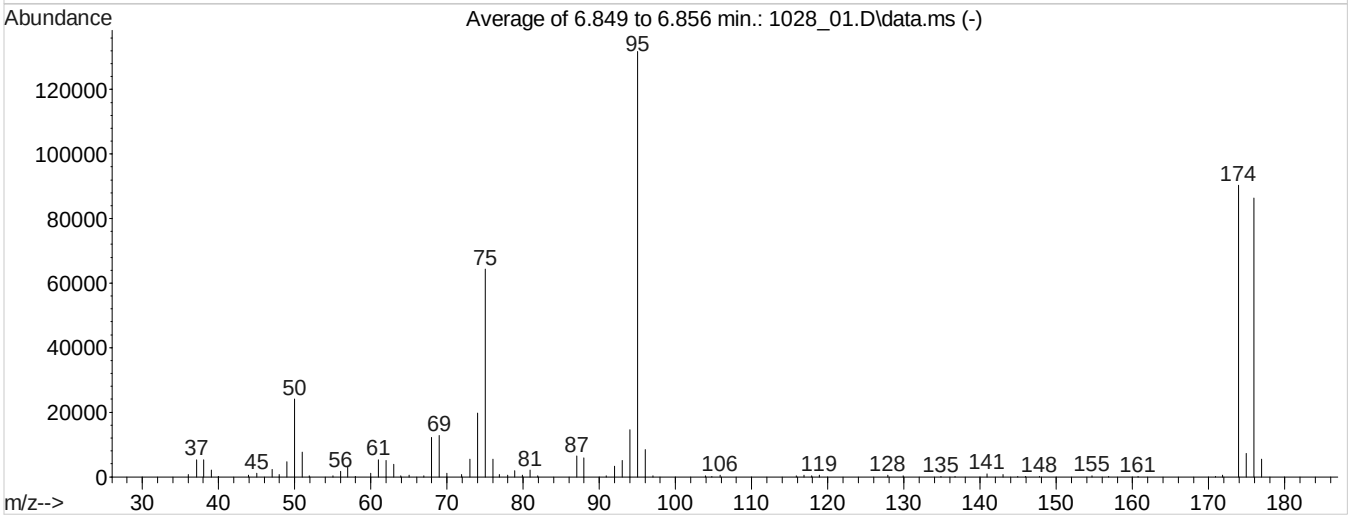
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
21	1028_19	L729008-13	V821I16N	WG751179	V8260	GW	LINFUNLKY	KY	1	1	10/28/14 1720	"water SSURR14I25028"
22	1028_20	L729008-15	V821I16N	WG751179	V8260	GW	LINFUNLKY	KY	500	500	10/28/14 1742	"water SSURR14I25028"
23	1028_21	L729008-16	V821I16N	WG751179	V8260	GW	LINFUNLKY	KY	1	1	10/28/14 1804	"water SSURR14I25028"
24	1028_22	L729034-06	V821I16N	WG751179	V8260	GW	URSTAZ	NM	10	10	10/28/14 1826	"water SSURR14I25028"
25	1028_23	L729223-01	V821I16N	WG751179	V8260	GW	AQUATEMS	MS	1	1	10/28/14 1848	"water SSURR14I25028"
26	1028_24	L729241-05	V821I16N	WG751179	V8260OXYUGMI	GW	GZAGRMI	MI	20	20	10/28/14 1910	"water SSURR14I25028"
27	1028_25	L729241-06	V821I16N	WG751179	V8260OXYUGMI	GW	GZAGRMI	MI	25	25	10/28/14 1932	"water SSURR14I25028"
28	1028_26	L729259-03	V821I16N	WG751179	V8260OXYUGMI	GW	MARATHONFOH	MI	100	100	10/28/14 1954	"water SSURR14I25028"
29	1028_27	L729259-04	V821I16N	WG751179	V8260OXYUGMI	GW	MARATHONFOH	MI	200	200	10/28/14 2016	"water SSURR14I25028"
30	1028_28	L729259-05	V821I16N	WG751179	V8260OXYUGMI	GW	MARATHONFOH	MI	1	1	10/28/14 2038	"water SSURR14I25028"
31	1028_29	L729259-06	V821I16N	WG751179	V8260OXYUGMI	GW	MARATHONFOH	MI	1	1	10/28/14 2100	"water SSURR14I25028"

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 01.D
Acq On : 28 Oct 2014 8:48 am
Operator : 644
Sample : INSTBLK VMS
Misc : water SSURR14I25028
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I16N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Wed Sep 17 10:39:25 2014





AutoFind: Scans 2102, 2103, 2104; Background Corrected with Scan 2090

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	24112	PASS
75	95	30	60	48.8	64291	PASS
95	95	100	100	100.0	131811	PASS
96	95	5	9	6.4	8473	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	68.5	90333	PASS
175	174	5	9	8.0	7190	PASS
176	174	95	101	95.6	86363	PASS
177	176	5	9	6.4	5527	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	333500	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	602410	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	103034	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	247394	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	333500	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	602410	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	103034	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	247394	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	153127	36.5866520 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 91.47%		
46) a,a,a-Trifluorotoluene	4.569	146	316322	42.1710375 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.43%		
50) TOLUENE-D8	5.013	98	769964	39.9002560 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.75%		
68) 4-BROMOFLUOROBENZENE	6.849	95	264924	39.6629287 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.16%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	6984282	No Calib	
3) PROPENE	1.447	41	34982	22.4520909 ppb	97
4) DICHLORODIFLUOROMETHANE	1.479	85	118388	23.2105931 ppb	100
5) CHLOROMETHANE	1.627	50	194313	23.9178606 ppb	99
6) VINYL CHLORIDE	1.688	62	196741	22.5728070 ppb	100
7) 1,3-BUTADIENE	1.701	39	133456	20.9072043 ppb	96
8) BROMOMETHANE	1.910	94	113571	28.4187411 ppb	97
9) CHLOROETHANE	1.991	66	38090	27.1412416 ppb	98
10) TRICHLOROFLUOROMETHANE	2.081	101	182348	24.6204508 ppb	99
11) DICHLOROFLUOROMETHANE	2.110	67	272590	24.4406972 ppb	100
12) ETHYL ETHER	2.264	59	121298	24.2109828 ppb	98
13) ACROLEIN	2.576	56	117058	134.1823351 ppb	99
14) 1,1-DICHLOROETHENE	2.389	61	218915	24.8654860 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	146110	25.5056415 ppb	99
16) ACETONE	2.737	43	171383	106.5877194 ppb	97
17) IODOMETHANE	2.476	142	1015730	140.0662507 ppb	99
18) CARBON DISULFIDE	2.418	76	506812	24.9794490 ppb	99
19) METHYLENE CHLORIDE	2.714	84	142470	21.2063534 ppb	99
20) ACRYLONITRILE	3.158	53	254560	127.8227304 ppb	99
21) n-Hexane	2.843	56	166567	22.3276585 ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.807	96	145425	23.6151563 ppb	94
23) METHYL TERT-BUTYL ETHER	2.856	73	390789	22.4319070 ppb	99
24) 1,1-DICHLOROETHANE	3.139	63	291546	23.8804034 ppb	98
25) VINYL ACETATE	3.251	43	1381497	141.8428962 ppb	99
26) DI-ISOPROPYL ETHER	3.048	45	532799	23.3768316 ppb	98
27) 2,2-Dichloropropane	3.486	77	220776	24.9464511 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	154367	24.0731812 ppb	97
29) 2-BUTANONE (MEK)	3.720	72	82305	115.6655575 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	80048	25.4851652 ppb	94
31) TETRAHYDROFURAN	3.666	42	45928	23.5484236 ppb	94
32) CHLOROFORM	3.563	83	248492	24.2146709 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.692	97	201371	24.0032249 ppb	96
35) CARBON TETRACHLORIDE	3.659	117	190496	25.6690996 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	243620	25.2130003 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	832560	25.5055328 ppb		97
38) HEPTANE	3.843	43	351287	26.7872543 ppb		99
39) BENZENE	3.888	78	713558	25.7282142 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	181935	24.9057885 ppb		99
42) TRICHLOROETHENE	4.209	130	153117	26.1863209 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	129933	26.5935896 ppb		98
44) DIBROMOMETHANE	4.450	93	77683	26.2332252 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	195258	27.3618679 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.839	63	70588	42.2026456 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.897	75	268637	28.5687691 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	301063	132.9289987 ppb		98
51) TOLUENE	5.045	91	733818	25.5613825 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	53060	28.7718213 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.392	97	126560	26.0949358 ppb		97
55) TETRACHLOROETHENE	5.296	164	113210	26.9794251 ppb		98
56) 1,3-Dichloropropane	5.572	76	246908	25.4493133 ppb		100
57) 2-HEXANONE	5.788	58	285383	136.3062415 ppb		97
58) CHLORODIBROMOMETHANE	5.518	129	116886	27.3666894 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	115715	27.3456688 ppb		100
60) CHLOROBENZENE	6.023	112	429602	25.8521247 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	124036	28.3601543 ppb		98
62) ETHYLBENZENE	6.026	106	248927	27.1971133 ppb		97
63) M&P-XYLENE	6.119	106	619574	55.0255202 ppb		98
64) O-XYLENE	6.421	106	283166	26.4539083 ppb		96
65) STYRENE	6.457	104	461574	27.0317976 ppb		98
66) Bromoform	6.486	173	71142	31.1037302 ppb		98
67) Isopropylbenzene	6.634	105	780091	27.2736103 ppb		100
69) Bromobenzene	6.933	77	347435	26.0247865 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	169603	26.9455988 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.087	110	43683	25.6714213 ppb		92
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	44375	28.1801081 ppb	#	93
73) n-Propylbenzene	6.933	91	967786	27.2581894 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	764254	27.3124318 ppb		99
75) 2-Chlorotoluene	7.061	126	171153	27.0447180 ppb		97
76) 4-Chlorotoluene	7.180	91	552300	27.4878837 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	652192	26.9262390 ppb		97
78) tert-Butylbenzene	7.309	119	529214	26.9288881 ppb		99
79) 1,2,4-Trimethylbenzene	7.363	105	626639	27.2062479 ppb		98
80) sec-Butylbenzene	7.444	105	879860	26.9010865 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	307018	27.9273719 ppb		100
82) p-Isopropyltoluene	7.547	119	698126	27.7474101 ppb		99
83) DICYCLOPENTADIENE	7.547	66	885333	26.7567223 ppb		100
85) 1,4-DICHLOROBENZENE	7.691	146	311855	26.2047760 ppb		95
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	643249	26.0368353 ppb		99
87) 1,2-DICHLOROBENZENE	8.019	146	275427	26.5538243 ppb		98
88) n-Butylbenzene	7.871	91	687351	28.2729592 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.643	157	22420	26.8262400 ppb		99
90) 1,2,4-Trichlorobenzene	9.193	180	154642	27.5352074 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	89913	26.5827452 ppb		97
92) Naphthalene	9.457	128	321997	22.7686872 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	131611	26.4891096 ppb		100
94) 1-Methylnaphthalene	10.325	142	71367	No Calib		
95) 2-Methylnaphthalene	10.453	142	72398	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

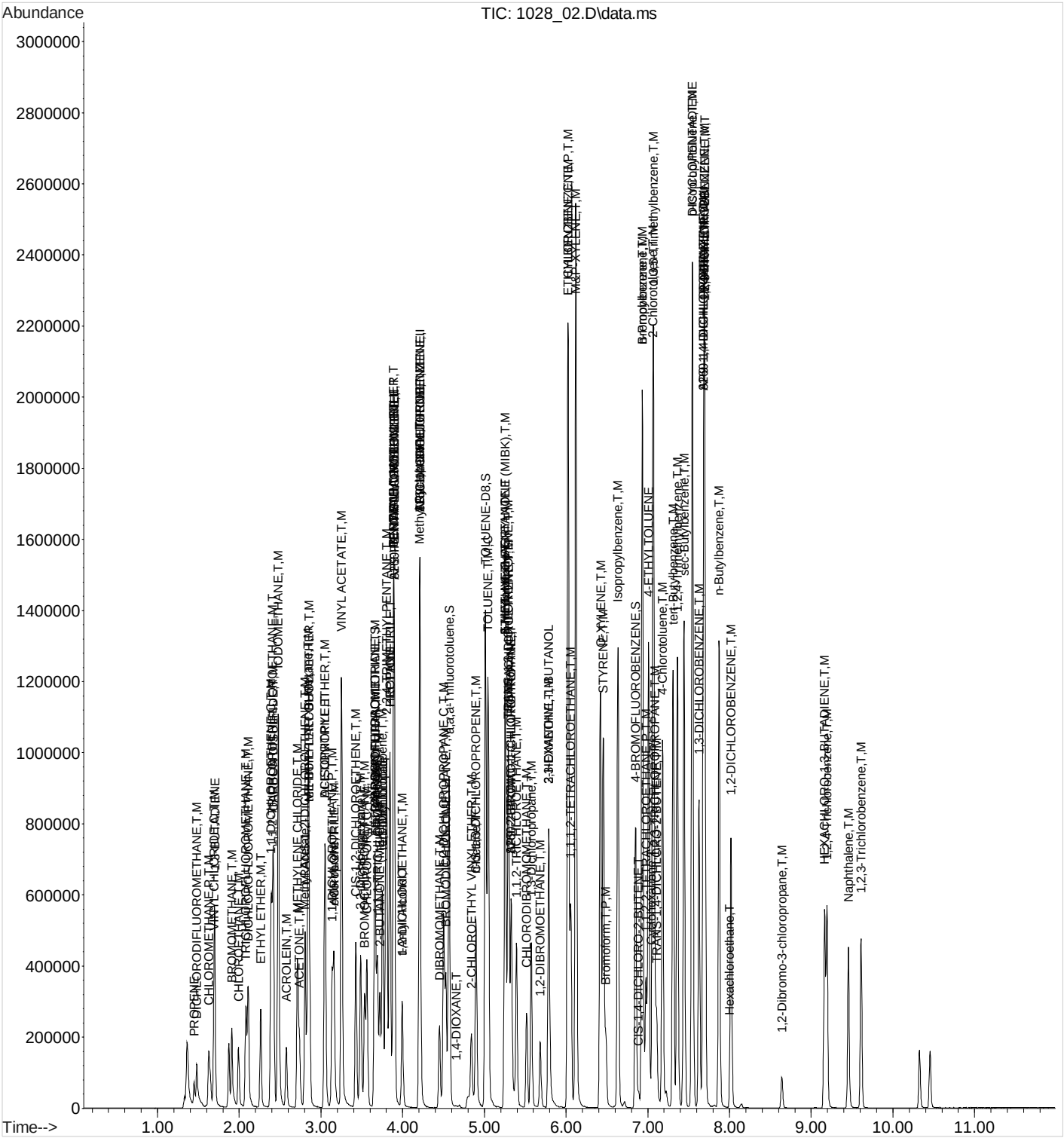
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	5809	1.5925777 ppb #	97
101)	ACETONITRILE	3.048	41	82157	114.9234305 ppb #	40
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.856	59	1310	1.7543178 ppb #	1
104)	chloroprene	3.158	53	254560	43.1100684 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.200	59	738	N.D.	
106)	PROPIONITRILE	3.843	54	2884	3.6664641 ppb #	1
107)	Ethyl Acetate	3.666	43	8577	1.6808191 ppb #	75
108)	METHACRYLONITRILE	3.894	67	1040	0.4268159 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.756	59	813	0.3402472 ppb #	1
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.994	59	852	1.8597339 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	12115	0.7206996 ppb #	64
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.206	83	9825	0.7899707 ppb #	52
117)	2-nitropropane	5.254	43	743204	670.2474963 ppb #	40
118)	METHYL METHACRYLATE	4.656	41	983	N.D.	
119)	1,4-DIOXANE	4.653	88	1059	16.8709219 ppb #	22
120)	n-octane	4.897	85	3378	0.5690798 ppb #	24
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	93372	240.4275112 ppb #	52
123)	ETHYL METHACRYLATE	5.254	69	4354	0.5673913 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2268	1.4418475 ppb #	26
125)	Cyclohexanone	7.045	55	4516	3.4477413 ppb #	23
126)	PENTACHLOROETHANE	7.360	117	21859	No Calib #	
127)	Hexachloroethane	8.000	117	1003	0.3116529 ppb #	34

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

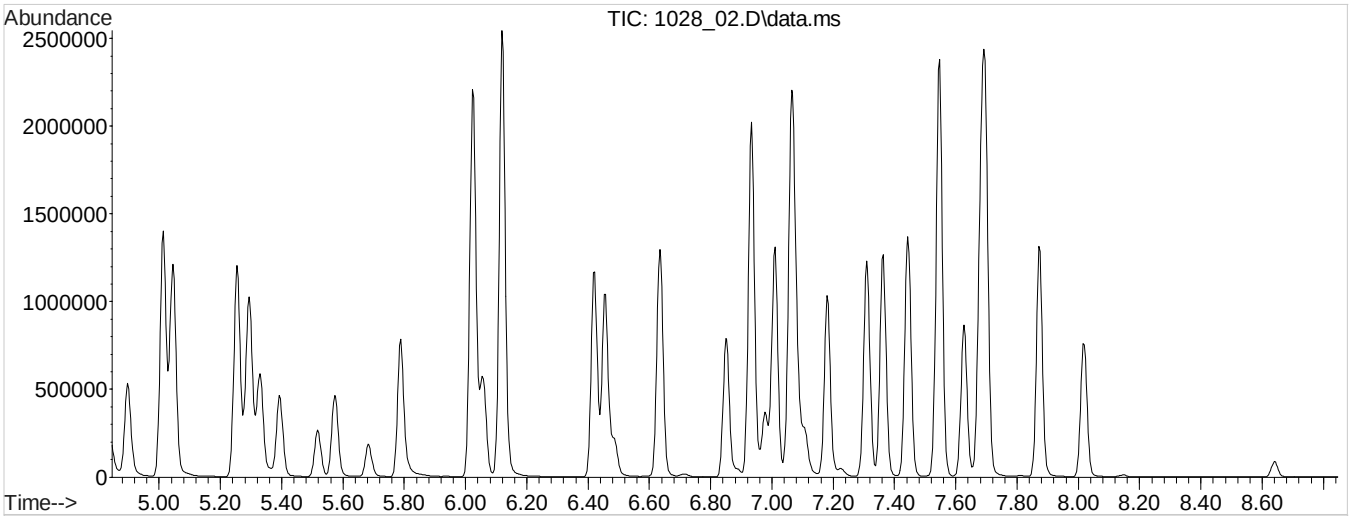
InstName : VOCMS21
Quant Time: Oct 28 21:31:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

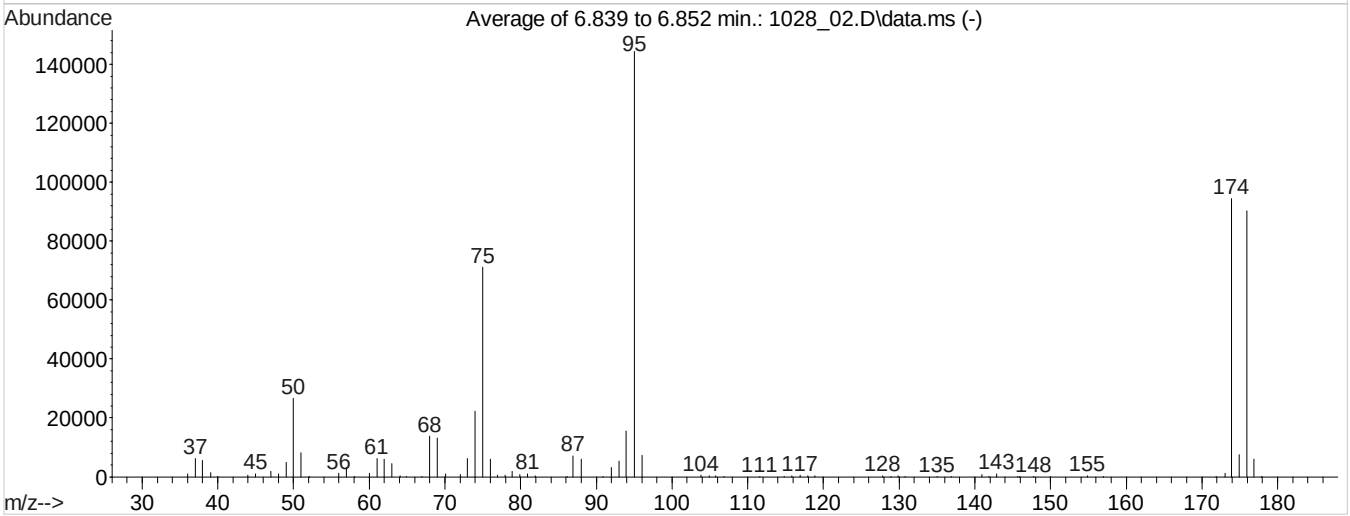


Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I16N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Wed Sep 17 10:39:25 2014





Spectrum Information: Average of 6.839 to 6.852 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	26520	PASS
75	95	30	60	49.2	71098	PASS
95	95	100	100	100.0	144428	PASS
96	95	5	9	5.0	7275	PASS
173	174	0.00	2	1.2	1138	PASS
174	95	50	150	65.4	94403	PASS
175	174	5	9	8.0	7586	PASS
176	174	95	101	95.6	90210	PASS
177	176	5	9	6.6	5964	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 03.D
Acq On : 28 Oct 2014 9:43 am
Operator : 644
Sample : LCS 1x WG751179
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:26 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	320129	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	581163	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	102703	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.678	152	250034	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	320129	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	581163	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	102703	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.678	152	250034	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	162774	40.5160176 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.29%		
46) a,a,a-Trifluorotoluene	4.566	146	312105	43.1300369 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.83%		
50) TOLUENE-D8	5.013	98	756917	40.6581615 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.65%		
68) 4-BROMOFLUOROBENZENE	6.849	95	256165	38.4751833 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.19%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8230195	No Calib	
3) PROPENE	1.447	41	34294	22.9482717 ppb	98
4) DICHLORODIFLUOROMETHANE	1.483	85	130013	26.5543792 ppb	100
5) CHLOROMETHANE	1.627	50	210024	26.9481831 ppb	99
6) VINYL CHLORIDE	1.688	62	208420	24.9115590 ppb	99
7) 1,3-BUTADIENE	1.701	39	138934	22.6744739 ppb	95
8) BROMOMETHANE	1.910	94	121671	31.9153630 ppb	100
9) CHLOROETHANE	1.991	66	40907	30.3659721 ppb	99
10) TRICHLOROFLUOROMETHANE	2.081	101	193089	27.1595988 ppb	99
11) DICHLOROFLUOROMETHANE	2.110	67	288689	26.9652672 ppb	99
12) ETHYL ETHER	2.264	59	131022	27.2441852 ppb	99
13) ACROLEIN	2.576	56	122706	146.5314561 ppb	99
14) 1,1-DICHLOROETHENE	2.389	61	234054	27.6954432 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	155941	28.3587736 ppb	99
16) ACETONE	2.737	43	182776	118.4211892 ppb	98
17) IODOMETHANE	2.479	142	1103172	158.4781068 ppb	99
18) CARBON DISULFIDE	2.418	76	538930	27.6719105 ppb	99
19) METHYLENE CHLORIDE	2.714	84	153942	23.8709946 ppb	99
20) ACRYLONITRILE	3.158	53	283700	148.4048465 ppb	99
21) n-Hexane	2.843	56	185325	25.8796885 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.807	96	155580	26.3194215 ppb	96
23) METHYL TERT-BUTYL ETHER	2.856	73	425607	25.4509177 ppb	98
24) 1,1-DICHLOROETHANE	3.135	63	318829	27.2059070 ppb	100
25) VINYL ACETATE	3.251	43	1419975	151.8829986 ppb	100
26) DI-ISOPROPYL ETHER	3.048	45	595699	27.2282631 ppb	99
27) 2,2-Dichloropropane	3.486	77	243073	28.6130697 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	172126	27.9638084 ppb	99
29) 2-BUTANONE (MEK)	3.720	72	88311	129.2895605 ppb	94
30) BROMOCHLOROMETHANE	3.534	130	85006	28.1940437 ppb	98
31) TETRAHYDROFURAN	3.663	42	48339	25.8197949 ppb	93
32) CHLOROFORM	3.563	83	269480	27.3566880 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.688	97	219858	27.3014530 ppb	98
35) CARBON TETRACHLORIDE	3.659	117	207784	29.1680702 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 03.D
Acq On : 28 Oct 2014 9:43 am
Operator : 644
Sample : LCS 1x WG751179
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:26 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	251573	27.1235443 ppb		98
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	863548	27.5598063 ppb		97
38)	HEPTANE	3.843	43	356295	28.3039254 ppb		98
39)	BENZENE	3.888	78	727735	27.3353379 ppb		99
40)	1,2-DICHLOROETHANE	3.994	62	183371	26.1508322 ppb		100
42)	TRICHLOROETHENE	4.209	130	154490	27.3870758 ppb		99
43)	1,2-DICHLOROPROPANE	4.502	62	132309	28.0699151 ppb		99
44)	DIBROMOMETHANE	4.450	93	78951	27.6361505 ppb		98
45)	BROMODICHLOROMETHANE	4.527	83	198525	28.8367509 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.839	63	70300	43.5670686 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	4.897	75	270448	29.8128634 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.254	58	302225	138.3206275 ppb		96
51)	TOLUENE	5.045	91	742863	26.8224795 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	52378	29.4403681 ppb		95
54)	1,1,2-TRICHLOROETHANE	5.392	97	129648	26.8177920 ppb		96
55)	TETRACHLOROETHENE	5.296	164	114588	27.3958305 ppb		98
56)	1,3-Dichloropropane	5.572	76	253916	26.2559905 ppb		100
57)	2-HEXANONE	5.788	58	286948	137.4954341 ppb		99
58)	CHLORODIBROMOMETHANE	5.518	129	119167	27.9906642 ppb		98
59)	1,2-DIBROMOETHANE	5.682	107	117433	27.8411055 ppb		100
60)	CHLOROBENZENE	6.023	112	430444	25.9862754 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.058	133	128530	29.4823960 ppb		99
62)	ETHYLBENZENE	6.026	106	253457	27.7812975 ppb		93
63)	M&P-XYLENE	6.119	106	622766	55.4872622 ppb		98
64)	O-XYLENE	6.418	106	282860	26.5104870 ppb		98
65)	STYRENE	6.457	104	464452	27.2880095 ppb		99
66)	Bromoform	6.486	173	71533	31.3754726 ppb		99
67)	Isopropylbenzene	6.634	105	781456	27.4093871 ppb		100
69)	Bromobenzene	6.933	77	347096	26.0831866 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	171599	27.3505770 ppb	#	98
71)	1,2,3-TRICHLOROPROPANE	7.084	110	45729	26.9604162 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.109	53	43752	27.8740215 ppb	#	90
73)	n-Propylbenzene	6.933	91	978473	27.6480144 ppb		100
74)	4-ETHYLTOLUENE	7.010	105	795500	28.5207055 ppb		100
75)	2-Chlorotoluene	7.061	126	175169	27.7685129 ppb		95
76)	4-Chlorotoluene	7.180	91	549843	27.4537954 ppb		98
77)	1,3,5-Trimethylbenzene	7.068	105	649051	26.8829227 ppb		98
78)	tert-Butylbenzene	7.309	119	534658	27.2935859 ppb		98
79)	1,2,4-Trimethylbenzene	7.363	105	641308	27.9328544 ppb		99
80)	sec-Butylbenzene	7.444	105	884992	27.1451985 ppb		100
81)	1,3-DICHLOROBENZENE	7.627	146	310624	28.3464495 ppb		99
82)	p-Isopropyltoluene	7.547	119	703310	28.0435419 ppb		98
83)	DICYCLOPENTADIENE	7.547	66	879899	26.6781993 ppb		100
85)	1,4-DICHLOROBENZENE	7.691	146	314365	26.1367764 ppb		92
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	656493	26.2923418 ppb		100
87)	1,2-DICHLOROBENZENE	8.019	146	280413	26.7490772 ppb		99
88)	n-Butylbenzene	7.871	91	699147	28.4545218 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.640	157	23466	27.7813508 ppb		97
90)	1,2,4-Trichlorobenzene	9.193	180	166341	29.3055783 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	93269	27.2837935 ppb		98
92)	Naphthalene	9.453	128	355729	24.6337741 ppb		99
93)	1,2,3-Trichlorobenzene	9.611	180	141858	28.2500420 ppb		99
94)	1-Methylnaphthalene	10.325	142	106306	No Calib		
95)	2-Methylnaphthalene	10.453	142	108866	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 03.D
Acq On : 28 Oct 2014 9:43 am
Operator : 644
Sample : LCS 1x WG751179
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:26 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

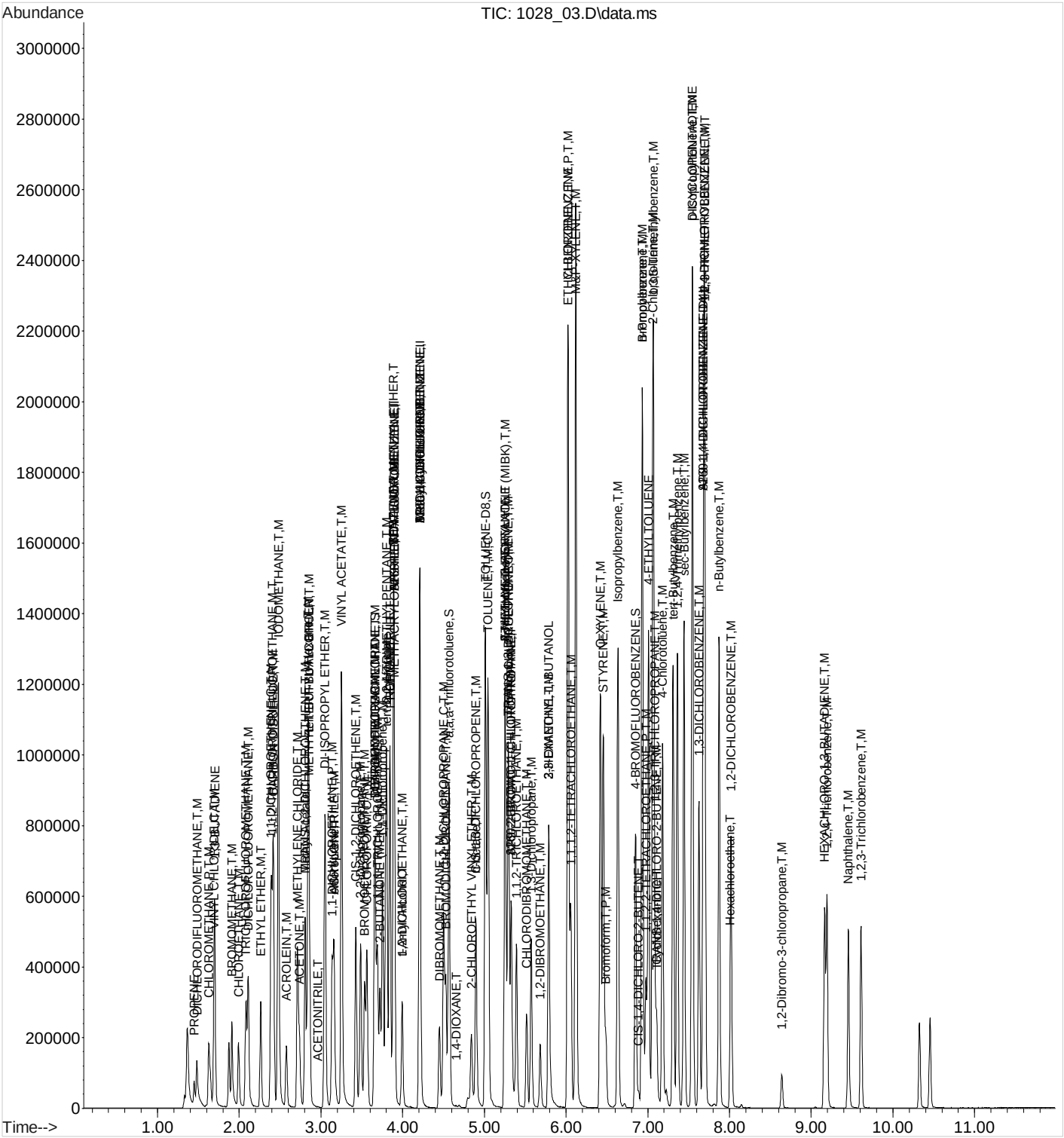
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.804	43	5205	1.4865886 ppb	#	95
101)	ACETONITRILE	2.962	41	772	1.1249990 ppb	#	35
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	2.852	59	1011	1.4104541 ppb	#	1
104)	chloroprene	3.158	53	283700	50.0516853 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	3.193	59	826	N.D.		
106)	PROPIONITRILE	3.846	54	2460	3.2580527 ppb	#	1
107)	Ethyl Acetate	3.563	43	688	N.D.		
108)	METHACRYLONITRILE	3.901	67	989	0.4228383 ppb	#	1
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	3.804	59	786	0.3426868 ppb	#	1
111)	ISOBUTANOL	3.952	41	787	No Calib	#	
112)	t-Amyl Alcohol	3.994	59	1114	2.5331868 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11363	0.7041978 ppb	#	57
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.209	83	10469	0.8725249 ppb	#	51
117)	2-nitropropane	5.254	43	736461	688.4479814 ppb	#	41
118)	METHYL METHACRYLATE	4.653	41	651	N.D.		
119)	1,4-DIOXANE	4.653	88	1120	18.4950322 ppb	#	70
120)	n-octane	4.897	85	3584	0.6258579 ppb	#	27
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	97923	260.9912107 ppb	#	53
123)	ETHYL METHACRYLATE	5.254	69	4785	0.6255667 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2331	1.4866748 ppb	#	30
125)	Cyclohexanone	7.106	55	1273	0.9750044 ppb	#	23
126)	PENTACHLOROETHANE	7.363	117	21608	No Calib	#	
127)	Hexachloroethane	8.006	117	1175	0.3662735 ppb	#	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 03.D
Acq On : 28 Oct 2014 9:43 am
Operator : 644
Sample : LCS 1x WG751179
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:26 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 04.D
Acq On : 28 Oct 2014 10:05 am
Operator : 644
Sample : LCSD 1x WG751179
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:39 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	319772	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	588007	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	106448	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.678	152	254097	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	319772	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	588007	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	106448	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.678	152	254097	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	150634	37.5361139 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 93.84%		
46) a,a,a-Trifluorotoluene	4.569	146	310824	42.4530707 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.13%		
50) TOLUENE-D8	5.013	98	756498	40.1626834 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.41%		
68) 4-BROMOFLUOROBENZENE	6.849	95	255167	36.9769459 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 92.44%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8200266	No Calib	
3) PROPENE	1.447	41	33836	22.6564617 ppb	97
4) DICHLORODIFLUOROMETHANE	1.479	85	122602	25.0686827 ppb	100
5) CHLOROMETHANE	1.627	50	204157	26.2210740 ppb	97
6) VINYL CHLORIDE	1.688	62	199032	23.8160102 ppb	99
7) 1,3-BUTADIENE	1.701	39	133133	21.7519894 ppb	97
8) BROMOMETHANE	1.907	94	116004	30.3851406 ppb	98
9) CHLOROETHANE	1.991	66	40112	29.8090722 ppb	96
10) TRICHLOROFLUOROMETHANE	2.081	101	183749	25.8747037 ppb	99
11) DICHLOROFLUOROMETHANE	2.110	67	275035	25.7185832 ppb	100
12) ETHYL ETHER	2.261	59	122109	25.4191989 ppb	99
13) ACROLEIN	2.576	56	119899	143.3392777 ppb	98
14) 1,1-DICHLOROETHENE	2.389	61	221051	26.1860094 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	143837	26.1867940 ppb	98
16) ACETONE	2.737	43	168158	109.0717717 ppb	99
17) IODOMETHANE	2.476	142	1037313	149.1833824 ppb	99
18) CARBON DISULFIDE	2.418	76	508963	26.1624000 ppb	100
19) METHYLENE CHLORIDE	2.711	84	145105	22.5258066 ppb	99
20) ACRYLONITRILE	3.158	53	256259	134.1999828 ppb	99
21) n-Hexane	2.843	56	167756	23.4524211 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.804	96	142466	24.1278369 ppb	97
23) METHYL TERT-BUTYL ETHER	2.856	73	396374	23.7292728 ppb	99
24) 1,1-DICHLOROETHANE	3.139	63	290009	24.7743034 ppb	99
25) VINYL ACETATE	3.251	43	1292322	138.3833331 ppb	100
26) DI-ISOPROPYL ETHER	3.048	45	537696	24.6044951 ppb	100
27) 2,2-Dichloropropane	3.486	77	219791	25.9013393 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.428	96	161679	26.2959001 ppb	95
29) 2-BUTANONE (MEK)	3.720	72	80851	118.5000783 ppb	100
30) BROMOCHLOROMETHANE	3.534	130	77174	25.6249711 ppb	96
31) TETRAHYDROFURAN	3.666	42	45334	24.2417379 ppb	93
32) CHLOROFORM	3.563	83	242652	24.6607022 ppb	97
34) 1,1,1-TRICHLOROETHANE	3.688	97	202694	25.1981679 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	188654	26.5122262 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 04.D
Acq On : 28 Oct 2014 10:05 am
Operator : 644
Sample : LCSD 1x WG751179
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:39 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	235626	25.4325675 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	810917	25.9090010 ppb		97
38)	HEPTANE	3.843	43	345319	27.4626222 ppb		99
39)	BENZENE	3.888	78	705555	26.5317956 ppb		100
40)	1,2-DICHLOROETHANE	3.994	62	183957	26.2636912 ppb		100
42)	TRICHLOROETHENE	4.209	130	151904	26.6152139 ppb		100
43)	1,2-DICHLOROPROPANE	4.502	62	129269	27.1057583 ppb		100
44)	DIBROMOMETHANE	4.450	93	78126	27.0290614 ppb		97
45)	BROMODICHLOROMETHANE	4.527	83	195520	28.0696999 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.839	63	64424	39.4608251 ppb		97
48)	CIS-1,3-DICHLOROPROPENE	4.897	75	270128	29.4309974 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.254	58	309225	139.8771011 ppb		97
51)	TOLUENE	5.045	91	730443	26.0670561 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	52991	29.4382440 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.392	97	127990	25.5434091 ppb		99
55)	TETRACHLOROETHENE	5.296	164	114632	26.4421537 ppb		97
56)	1,3-Dichloropropane	5.572	76	250184	24.9599375 ppb		99
57)	2-HEXANONE	5.788	58	289370	133.7778471 ppb		100
58)	CHLORODIBROMOMETHANE	5.518	129	121296	27.4883898 ppb		97
59)	1,2-DIBROMOETHANE	5.682	107	119282	27.2845538 ppb		97
60)	CHLOROBENZENE	6.023	112	427648	24.9091810 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.058	133	127267	28.1656448 ppb	#	99
62)	ETHYLBENZENE	6.026	106	249387	26.3734940 ppb		97
63)	M&P-XYLENE	6.119	106	623872	53.6302129 ppb		98
64)	O-XYLENE	6.421	106	282279	25.5252710 ppb		97
65)	STYRENE	6.457	104	469420	26.6095931 ppb		97
66)	Bromoform	6.486	173	69608	29.4570069 ppb		99
67)	Isopropylbenzene	6.634	105	777720	26.3186546 ppb		99
69)	Bromobenzene	6.933	77	346809	25.1447327 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	175528	26.9925409 ppb	#	98
71)	1,2,3-TRICHLOROPROPANE	7.087	110	43954	25.0022397 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.109	53	45134	27.7428560 ppb	#	91
73)	n-Propylbenzene	6.933	91	972763	26.5196487 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	794908	27.4968264 ppb		99
75)	2-Chlorotoluene	7.061	126	172127	26.3263103 ppb		95
76)	4-Chlorotoluene	7.180	91	549042	26.4493427 ppb		97
77)	1,3,5-Trimethylbenzene	7.068	105	661600	26.4386199 ppb		99
78)	tert-Butylbenzene	7.309	119	534444	26.3228166 ppb		99
79)	1,2,4-Trimethylbenzene	7.363	105	650835	27.3504946 ppb		99
80)	sec-Butylbenzene	7.444	105	892529	26.4132375 ppb		99
81)	1,3-DICHLOROBENZENE	7.627	146	309934	27.2884273 ppb		99
82)	p-Isopropyltoluene	7.547	119	706123	27.1651466 ppb		99
83)	DICYCLOPENTADIENE	7.547	66	882812	25.8248341 ppb		100
85)	1,4-DICHLOROBENZENE	7.691	146	312096	25.5332189 ppb		94
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	656297	25.8642042 ppb		99
87)	1,2-DICHLOROBENZENE	8.016	146	277042	26.0049369 ppb		98
88)	n-Butylbenzene	7.871	91	704255	28.2041011 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.640	157	23272	27.1111245 ppb		97
90)	1,2,4-Trichlorobenzene	9.193	180	165649	28.7170178 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	91258	26.2686595 ppb		96
92)	Naphthalene	9.457	128	362718	24.7069813 ppb		99
93)	1,2,3-Trichlorobenzene	9.611	180	139262	27.2896159 ppb		99
94)	1-Methylnaphthalene	10.325	142	118507	No Calib		
95)	2-Methylnaphthalene	10.453	142	118302	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 04.D
Acq On : 28 Oct 2014 10:05 am
Operator : 644
Sample : LCSD 1x WG751179
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:39 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

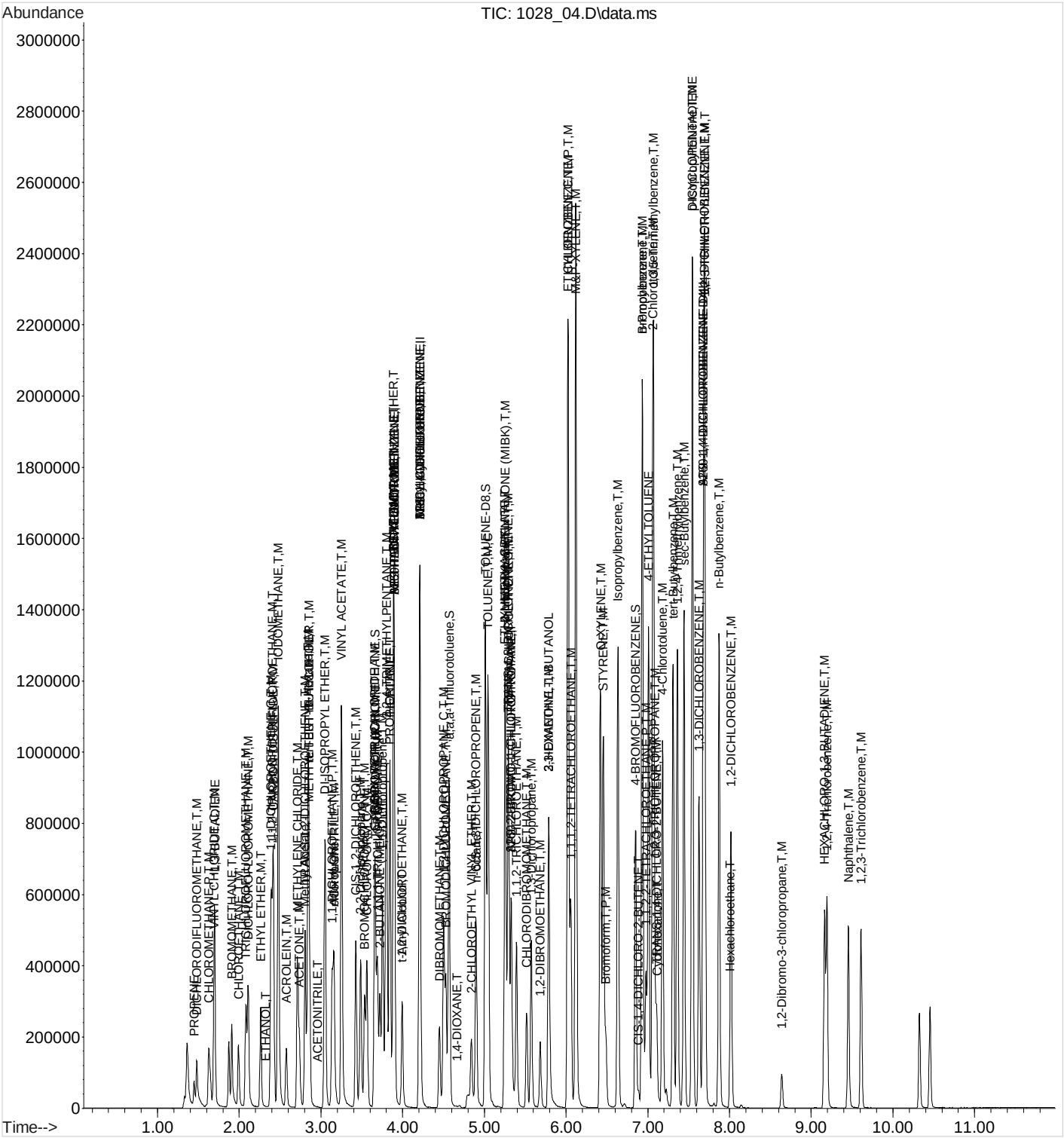
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.325	45	1331	24.1872847 ppb	#	39
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.801	43	7539	2.1556011 ppb	#	83
101)	ACETONITRILE	2.958	41	728	1.0620643 ppb	#	35
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	2.852	59	1060	1.4804654 ppb	#	1
104)	chloroprene	3.158	53	256259	45.2608892 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	3.839	54	2650	3.5136092 ppb	#	1
107)	Ethyl Acetate	3.624	43	671	N.D.		
108)	METHACRYLONITRILE	3.897	67	1109	0.4746726 ppb	#	1
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	3.798	59	621	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	3.991	59	795	1.8098132 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11541	0.7160275 ppb	#	60
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.209	83	10110	0.8327972 ppb	#	46
117)	2-nitropropane	5.254	43	757477	699.8521301 ppb	#	41
118)	METHYL METHACRYLATE	4.659	41	763	N.D.		
119)	1,4-DIOXANE	4.663	88	1009	16.4681076 ppb	#	20
120)	n-octane	4.900	85	3453	0.5959636 ppb	#	35
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	98982	260.7471933 ppb	#	55
123)	ETHYL METHACRYLATE	5.251	69	4692	0.5918278 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.884	53	2282	1.4042194 ppb	#	26
125)	Cyclohexanone	7.113	55	1047	0.7736962 ppb	#	23
126)	PENTACHLOROETHANE	7.363	117	21199	No Calib #		
127)	Hexachloroethane	8.003	117	1077	0.3239134 ppb	#	50

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 04.D
Acq On : 28 Oct 2014 10:05 am
Operator : 644
Sample : LCSD 1x WG751179
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:39 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 05.D
Acq On : 28 Oct 2014 11:54 am
Operator : 644
Sample : MS 1x WG751179 L729302-05
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:32:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	343350	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	616793	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	107709	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	257310	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	343350	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	616793	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	107709	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	257310	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	171332	39.7619950 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.40%		
46) a,a,a-Trifluorotoluene	4.566	146	324254	42.2204605 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.55%		
50) TOLUENE-D8	5.013	98	786804	39.8221365 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.56%		
68) 4-BROMOFLUOROBENZENE	6.849	95	274793	39.3547998 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.39%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7181824	No Calib	
3) PROPENE	1.448	41	32755	20.3412725 ppb	98
4) DICHLORODIFLUOROMETHANE	1.480	85	121337	23.1063099 ppb	96
5) CHLOROMETHANE	1.628	50	190876	22.8147047 ppb	99
6) VINYL CHLORIDE	1.689	62	195652	21.8038795 ppb	99
7) 1,3-BUTADIENE	1.702	39	130407	19.8434668 ppb	97
8) BROMOMETHANE	1.907	94	115558	28.0664450 ppb	99
9) CHLOROETHANE	1.991	66	40811	28.2458573 ppb	95
10) TRICHLOROFLUOROMETHANE	2.081	101	195939	25.6965412 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	297614	25.9188552 ppb	99
12) ETHYL ETHER	2.261	59	131195	25.4351820 ppb	98
13) ACROLEIN	2.576	56	142329	158.4697710 ppb	94
14) 1,1-DICHLOROETHENE	2.390	61	225323	24.8591195 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	153478	26.0232317 ppb	99
16) ACETONE	2.734	43	194916	117.7458762 ppb	99
17) IODOMETHANE	2.476	142	1010571	135.3570379 ppb	99
18) CARBON DISULFIDE	2.419	76	433849	20.7698496 ppb	100
19) METHYLENE CHLORIDE	2.711	84	147958	21.3914295 ppb	100
20) ACRYLONITRILE	3.158	53	311168	151.7650059 ppb	98
21) n-Hexane	2.843	56	182416	23.7506736 ppb #	78
22) TRANS-1,2-DICHLOROETHENE	2.804	96	139244	21.9627657 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	991946	55.3058003 ppb #	51
24) 1,1-DICHLOROETHANE	3.136	63	295736	23.5286794 ppb	99
25) VINYL ACETATE	3.251	43	1479411	147.5384696 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	559514	23.8447070 ppb	99
27) 2,2-Dichloropropane	3.486	77	223437	24.5228414 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.425	96	152978	23.1721743 ppb	99
29) 2-BUTANONE (MEK)	3.721	72	93030	126.9871113 ppb	93
30) BROMOCHLOROMETHANE	3.534	130	78069	24.1420625 ppb	98
31) TETRAHYDROFURAN	3.663	42	54446	27.1149665 ppb	93
32) CHLOROFORM	3.563	83	248334	23.5050473 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.689	97	200484	23.2119258 ppb	98
35) CARBON TETRACHLORIDE	3.660	117	188722	24.7005197 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 05.D
Acq On : 28 Oct 2014 11:54 am
Operator : 644
Sample : MS 1x WG751179 L729302-05
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:32:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	225473	22.6654800 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	927634	27.6028740 ppb		97
38) HEPTANE	3.843	43	276385	20.4710151 ppb		98
39) BENZENE	3.888	78	640416	22.4285565 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	173568	23.0787608 ppb		99
42) TRICHLOROETHENE	4.210	130	138888	23.1989610 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	124595	24.9063936 ppb		100
44) DIBROMOMETHANE	4.451	93	75494	24.8995141 ppb		97
45) BROMODICHLOROMETHANE	4.528	83	185951	25.4500219 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	28009	16.3553235 ppb		97
48) CIS-1,3-DICHLOROPROPENE	4.898	75	248337	25.7940696 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.251	58	336549	145.1320699 ppb		96
51) TOLUENE	5.045	91	670126	22.7984428 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	50366	26.6741326 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.393	97	123236	24.3066958 ppb		98
55) TETRACHLOROETHENE	5.296	164	101772	23.2008970 ppb		97
56) 1,3-Dichloropropane	5.573	76	239803	23.6441707 ppb		100
57) 2-HEXANONE	5.785	58	324186	148.1188960 ppb		99
58) CHLORODIBROMOMETHANE	5.518	129	114945	25.7441417 ppb		99
59) 1,2-DIBROMOETHANE	5.685	107	113893	25.7468729 ppb		99
60) CHLOROBENZENE	6.023	112	398060	22.9143242 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	118401	25.8967208 ppb	#	99
62) ETHYLBENZENE	6.023	106	230501	24.0908534 ppb		96
63) M&P-XYLENE	6.119	106	556794	47.3035882 ppb		100
64) O-XYLENE	6.418	106	262250	23.4365025 ppb		97
65) STYRENE	6.454	104	435761	24.4124022 ppb		98
66) Bromoform	6.486	173	71750	30.0079881 ppb		99
67) Isopropylbenzene	6.634	105	716757	23.9716470 ppb		99
69) Bromobenzene	6.933	77	320677	22.9778816 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	181204	27.5391579 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.087	110	46604	26.1992716 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	49456	30.0435912 ppb	#	95
73) n-Propylbenzene	6.933	91	896068	24.1427760 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	707253	24.1783141 ppb		99
75) 2-Chlorotoluene	7.061	126	159464	24.1040024 ppb		96
76) 4-Chlorotoluene	7.180	91	508862	24.2267328 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	592459	23.3984504 ppb		98
78) tert-Butylbenzene	7.309	119	492728	23.9840713 ppb		99
79) 1,2,4-Trimethylbenzene	7.361	105	577581	23.9879257 ppb		99
80) sec-Butylbenzene	7.444	105	815447	23.8495700 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	285757	24.8651839 ppb		100
82) p-Isopropyltoluene	7.547	119	646782	24.5909401 ppb		99
83) DICYCLOPENTADIENE	7.547	66	798560	23.0867275 ppb		99
85) 1,4-DICHLOROBENZENE	7.692	146	295268	23.8548462 ppb		100
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	593550	23.0993034 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	260746	24.1696699 ppb		98
88) n-Butylbenzene	7.872	91	641760	25.3803637 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	26209	30.1513767 ppb		98
90) 1,2,4-Trichlorobenzene	9.193	180	158887	27.2008050 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	85163	24.2081047 ppb		97
92) Naphthalene	9.454	128	377365	25.3088167 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	134361	26.0004519 ppb		98
94) 1-Methylnaphthalene	10.325	142	120044	No Calib		
95) 2-Methylnaphthalene	10.454	142	121728	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 05.D
Acq On : 28 Oct 2014 11:54 am
Operator : 644
Sample : MS 1x WG751179 L729302-05
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:32:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

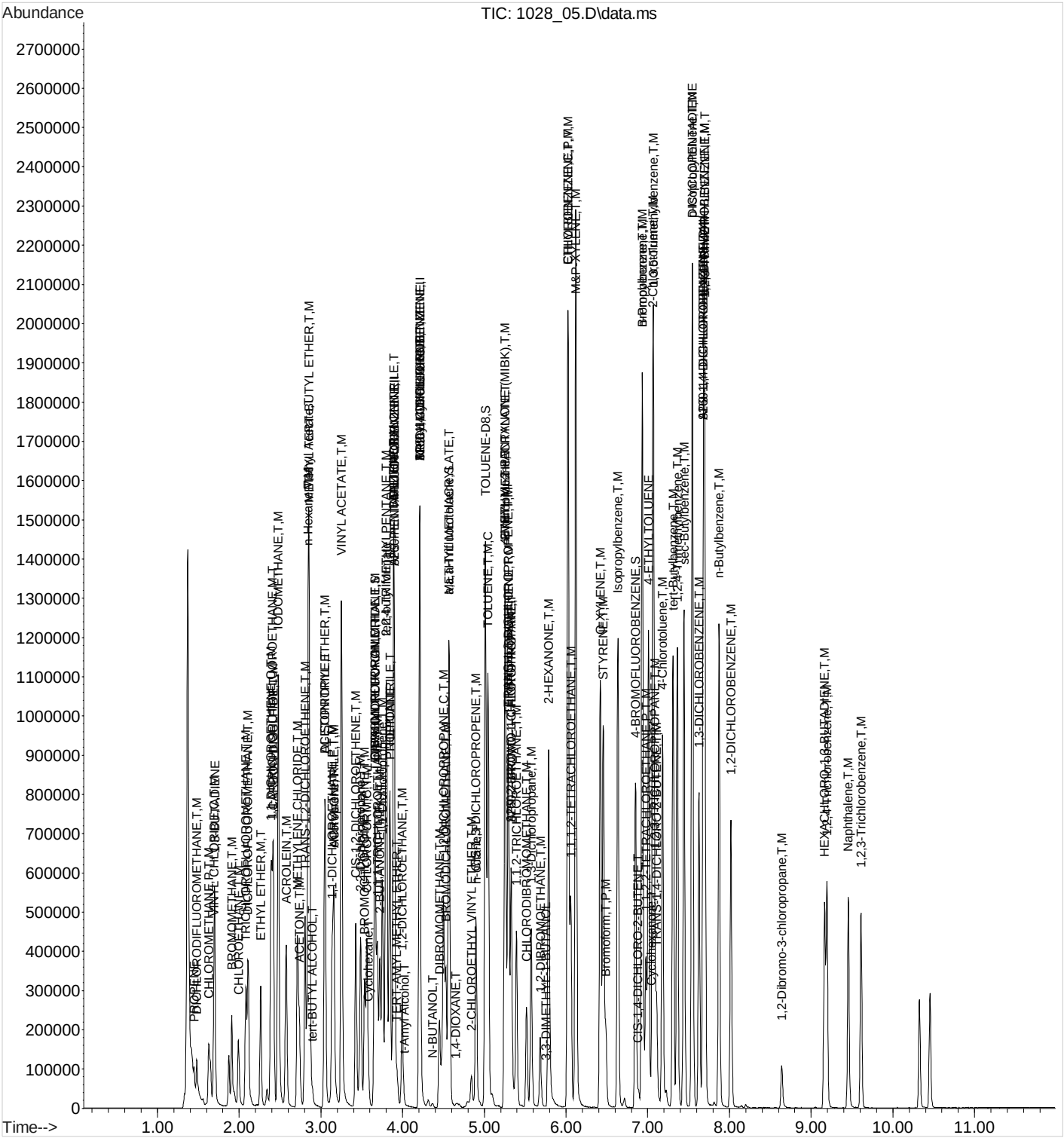
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.846	43	339561	90.4223591 ppb	#	82
101)	ACETONITRILE	3.049	41	81303	110.4661877 ppb	#	40
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	2.894	59	29520	38.3983113 ppb	#	59
104)	chloroprene	3.158	53	311168	51.1849478 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	3.245	59	974	N.D.		
106)	PROPIONITRILE	3.846	54	2320	2.8648306 ppb	#	1
107)	Ethyl Acetate	3.628	43	562	N.D.		
108)	METHACRYLONITRILE	3.894	67	1136	0.4528395 ppb	#	1
109)	Cyclohexane	3.579	56	26047	2.3953019 ppb	#	70
110)	tert-butyl formate	3.798	59	934	0.3796730 ppb	#	1
111)	ISOBUTANOL	3.930	41	5595	No Calib	#	
112)	t-Amyl Alcohol	4.023	59	4519	9.5810331 ppb		91
113)	TERT-AMYL METHYL ETHER	3.930	73	52964	3.0603451 ppb	#	85
115)	N-BUTANOL	4.364	56	700	146.6514321 ppb	#	1
116)	Methyl Cyclohexane	4.210	83	11271	0.8851026 ppb	#	84
117)	2-nitropropane	5.254	43	821011	723.1508053 ppb	#	40
118)	METHYL METHACRYLATE	4.566	41	27800	5.1769566 ppb	#	86
119)	1,4-DIOXANE	4.647	88	1707	26.5600637 ppb	#	26
120)	n-octane	4.901	85	3486	0.5735795 ppb	#	19
121)	3,3-DIMETHYL-1-BUTANOL	5.750	57	1617	8.2795504 ppb	#	18
123)	ETHYL METHACRYLATE	5.254	69	5991	0.7468307 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	2299	1.3981179 ppb	#	30
125)	Cyclohexanone	7.042	55	2384	1.7410673 ppb	#	23
126)	PENTACHLOROETHANE	7.361	117	20677	No Calib	#	
127)	Hexachloroethane	8.000	117	892	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 05.D
Acq On : 28 Oct 2014 11:54 am
Operator : 644
Sample : MS 1x WG751179 L729302-05
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:32:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 06.D
Acq On : 28 Oct 2014 12:16 pm
Operator : 644
Sample : MSD 1x WG751179 L729302-05
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:32:24 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	319003	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	583029	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	102021	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	237581	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	319003	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	583029	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	102021	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	237581	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	152637	38.1269257 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 95.32%		
46) a,a,a-Trifluorotoluene	4.569	146	301019	41.4649181 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.66%		
50) TOLUENE-D8	5.013	98	725375	38.8391629 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 97.10%		
68) 4-BROMOFLUOROBENZENE	6.849	95	252297	38.1475408 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.37%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	6730351	No Calib	
3) PROPENE	1.447	41	26142	17.3514857 ppb	99
4) DICHLORODIFLUOROMETHANE	1.479	85	103663	21.2472828 ppb	100
5) CHLOROMETHANE	1.627	50	163103	20.9723654 ppb	99
6) VINYL CHLORIDE	1.688	62	165605	19.8639316 ppb	99
7) 1,3-BUTADIENE	1.701	39	106713	17.4773772 ppb	97
8) BROMOMETHANE	1.907	94	97141	25.2315292 ppb	97
9) CHLOROETHANE	1.991	66	34370	25.6035002 ppb	98
10) TRICHLOROFLUOROMETHANE	2.081	101	165432	23.3515433 ppb	99
11) DICHLOROFLUOROMETHANE	2.110	67	251317	23.5573595 ppb	99
12) ETHYL ETHER	2.264	59	108787	22.7005747 ppb	96
13) ACROLEIN	2.576	56	116961	140.1639699 ppb	92
14) 1,1-DICHLOROETHENE	2.389	61	189877	22.5473166 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	131524	24.0028267 ppb	98
16) ACETONE	2.737	43	154150	100.2268380 ppb	99
17) IODOMETHANE	2.476	142	863197	124.4417807 ppb	99
18) CARBON DISULFIDE	2.418	76	363541	18.7322711 ppb	99
19) METHYLENE CHLORIDE	2.714	84	128825	20.0467416 ppb	100
20) ACRYLONITRILE	3.158	53	258145	135.5135482 ppb	98
21) n-Hexane	2.843	56	155061	21.7299070 ppb #	75
22) TRANS-1,2-DICHLOROETHENE	2.807	96	121755	20.6699596 ppb	99
23) METHYL TERT-BUTYL ETHER	2.856	73	863110	51.7953872 ppb #	52
24) 1,1-DICHLOROETHANE	3.139	63	262004	22.4359036 ppb	100
25) VINYL ACETATE	3.251	43	1300809	139.6279135 ppb	100
26) DI-ISOPROPYL ETHER	3.048	45	492887	22.6084444 ppb	100
27) 2,2-Dichloropropane	3.486	77	203657	24.0578783 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	140952	22.9800693 ppb	100
29) 2-BUTANONE (MEK)	3.720	72	81307	119.4556909 ppb	95
30) BROMOCHLOROMETHANE	3.534	130	72368	24.0871052 ppb	93
31) TETRAHYDROFURAN	3.666	42	46147	24.7359646 ppb	96
32) CHLOROFORM	3.563	83	229391	23.3691871 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.688	97	190922	23.7919322 ppb	98
35) CARBON TETRACHLORIDE	3.659	117	174639	24.6018112 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 06.D
Acq On : 28 Oct 2014 12:16 pm
Operator : 644
Sample : MSD 1x WG751179 L729302-05
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:32:24 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	212951	23.0405236 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	907478	29.0640435 ppb		96
38) HEPTANE	3.843	43	263680	21.0205649 ppb		98
39) BENZENE	3.888	78	622686	23.4720238 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	158956	22.7489856 ppb		99
42) TRICHLOROETHENE	4.209	130	132698	23.4486296 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	116001	24.5313385 ppb		99
44) DIBROMOMETHANE	4.450	93	69780	24.3477413 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	177486	25.6982188 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	4.846	63	3551	2.1936205 ppb	#	90
48) CIS-1,3-DICHLOROPROPENE	4.897	75	229114	25.1755718 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.254	58	297678	135.8035438 ppb		96
51) TOLUENE	5.045	91	638146	22.9677285 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	46663	26.1441653 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.392	97	116000	24.1550945 ppb		98
55) TETRACHLOROETHENE	5.296	164	98562	23.7218411 ppb		97
56) 1,3-Dichloropropane	5.572	76	227527	23.6845333 ppb		99
57) 2-HEXANONE	5.788	58	270179	130.3257455 ppb		97
58) CHLORODIBROMOMETHANE	5.518	129	108082	25.5566617 ppb		99
59) 1,2-DIBROMOETHANE	5.682	107	105455	25.1684836 ppb		98
60) CHLOROBENZENE	6.023	112	377172	22.9224153 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	113516	26.2125276 ppb	#	100
62) ETHYLBENZENE	6.026	106	216136	23.8489300 ppb		98
63) M&P-XYLENE	6.119	106	543763	48.7721173 ppb		98
64) O-XYLENE	6.421	106	248843	23.4782191 ppb		98
65) STYRENE	6.457	104	406905	24.0667586 ppb		99
66) Bromoform	6.486	173	64448	28.4568507 ppb		98
67) Isopropylbenzene	6.634	105	683568	24.1362653 ppb		99
69) Bromobenzene	6.933	77	307907	23.2929318 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	168103	26.9724724 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	43308	25.7037548 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.109	53	42490	27.2509724 ppb	#	92
73) n-Propylbenzene	6.933	91	860565	24.4789245 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	685618	24.7454779 ppb		99
75) 2-Chlorotoluene	7.061	126	157112	25.0725371 ppb		92
76) 4-Chlorotoluene	7.180	91	483792	24.3173322 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	563496	23.4953572 ppb		97
78) tert-Butylbenzene	7.309	119	481855	24.7624979 ppb		98
79) 1,2,4-Trimethylbenzene	7.363	105	552924	24.2441887 ppb		99
80) sec-Butylbenzene	7.444	105	789247	24.3702604 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	273111	25.0897543 ppb		99
82) p-Isopropyltoluene	7.547	119	616287	24.7378887 ppb		98
83) DICYCLOPENTADIENE	7.547	66	773100	23.5967894 ppb		99
85) 1,4-DICHLOROBENZENE	7.691	146	283963	24.8465991 ppb		99
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	575056	24.2379939 ppb		99
87) 1,2-DICHLOROBENZENE	8.016	146	249450	25.0427219 ppb		98
88) n-Butylbenzene	7.871	91	617224	26.4370480 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	23117	28.8026951 ppb		99
90) 1,2,4-Trichlorobenzene	9.193	180	144680	26.8254398 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	81980	25.2384518 ppb		99
92) Naphthalene	9.453	128	335695	24.4836681 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	125049	26.2079379 ppb		97
94) 1-Methylnaphthalene	10.325	142	110609	No Calib		
95) 2-Methylnaphthalene	10.453	142	110356	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 06.D
Acq On : 28 Oct 2014 12:16 pm
Operator : 644
Sample : MSD 1x WG751179 L729302-05
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:32:24 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

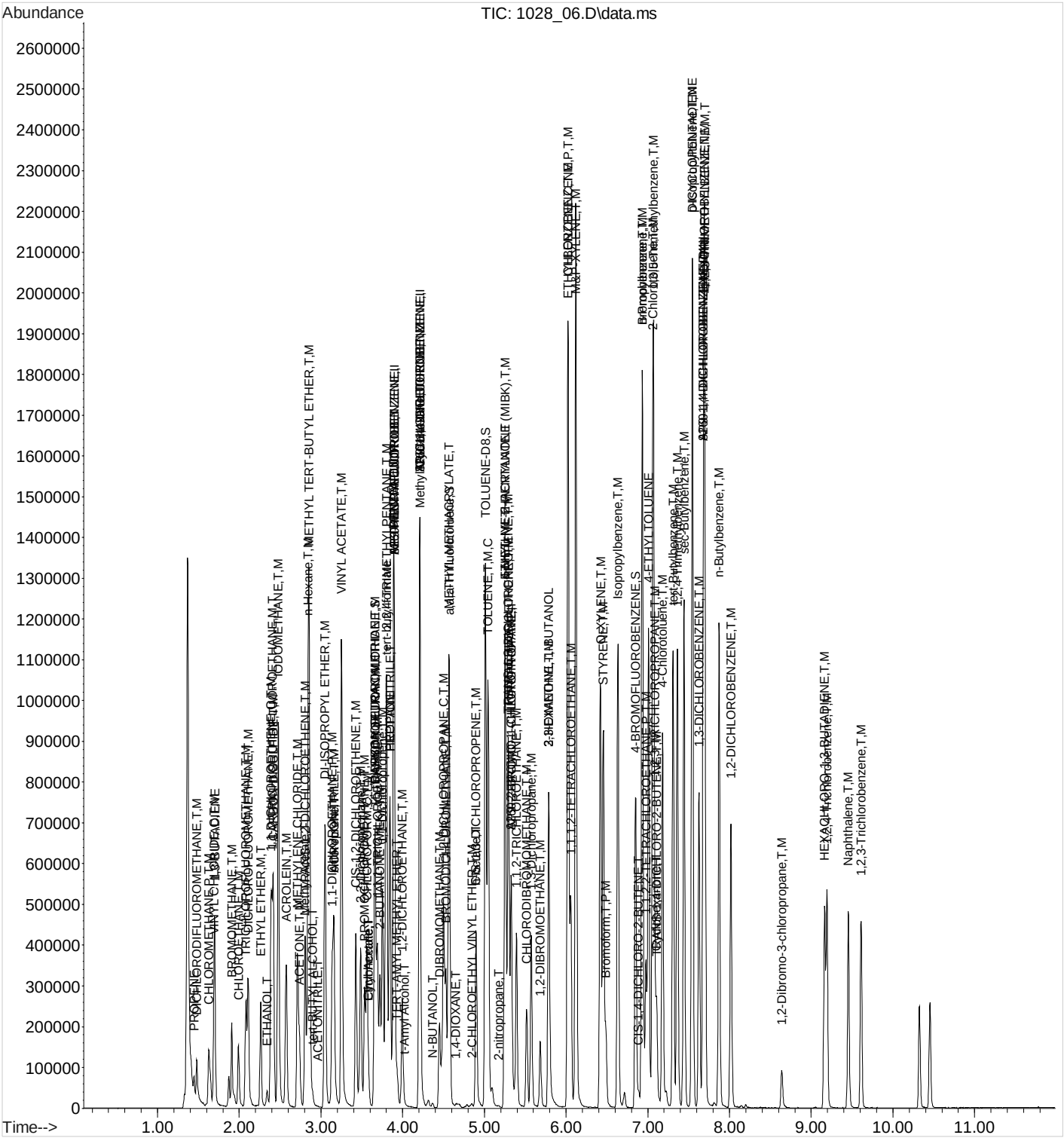
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.338	45	567	10.3285127 ppb #	39
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	4696	1.3459484 ppb #	77
101)	ACETONITRILE	2.958	41	1211	1.7709619 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.894	59	22753	31.8549350 ppb #	59
104)	chloroprene	3.158	53	258145	45.7039081 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.248	59	947	N.D.	
106)	PROPIONITRILE	3.843	54	1835	2.4388737 ppb #	1
107)	Ethyl Acetate	3.579	43	19070	3.9069453 ppb #	61
108)	METHACRYLONITRILE	3.897	67	1180	0.5062795 ppb #	1
109)	Cyclohexane	3.579	56	23460	2.3220569 ppb #	68
110)	tert-butyl formate	3.804	59	1146	0.5014063 ppb #	1
111)	ISOBUTANOL	3.929	41	6828	No Calib #	
112)	t-Amyl Alcohol	4.023	59	3928	8.9636267 ppb #	79
113)	TERT-AMYL METHYL ETHER	3.929	73	50417	3.1355152 ppb #	91
115)	N-BUTANOL	4.367	56	665	146.6688384 ppb #	1
116)	Methyl Cyclohexane	4.212	83	10630	0.8831077 ppb	92
117)	2-nitropropane	5.174	43	834	0.7771328 ppb #	5
118)	METHYL METHACRYLATE	4.566	41	26851	5.2898027 ppb #	88
119)	1,4-DIOXANE	4.650	88	1152	18.9625766 ppb #	28
120)	n-octane	4.897	85	2582	0.4494400 ppb #	49
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	94538	251.3242189 ppb #	54
123)	ETHYL METHACRYLATE	5.254	69	5340	0.7027915 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2166	1.3906752 ppb #	27
125)	Cyclohexanone	7.103	55	1009	0.7779701 ppb #	1
126)	PENTACHLOROETHANE	7.363	117	18949	No Calib #	
127)	Hexachloroethane	8.003	117	927	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 06.D
Acq On : 28 Oct 2014 12:16 pm
Operator : 644
Sample : MSD 1x WG751179 L729302-05
Misc : water SSURR14I25028/SPK14J27647
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:32:24 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 09.D
Acq On : 28 Oct 2014 1:22 pm
Operator : 644
Sample : BLANK 1x WG751179
Misc : water SSURR14I25028
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 06 09:43:15 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

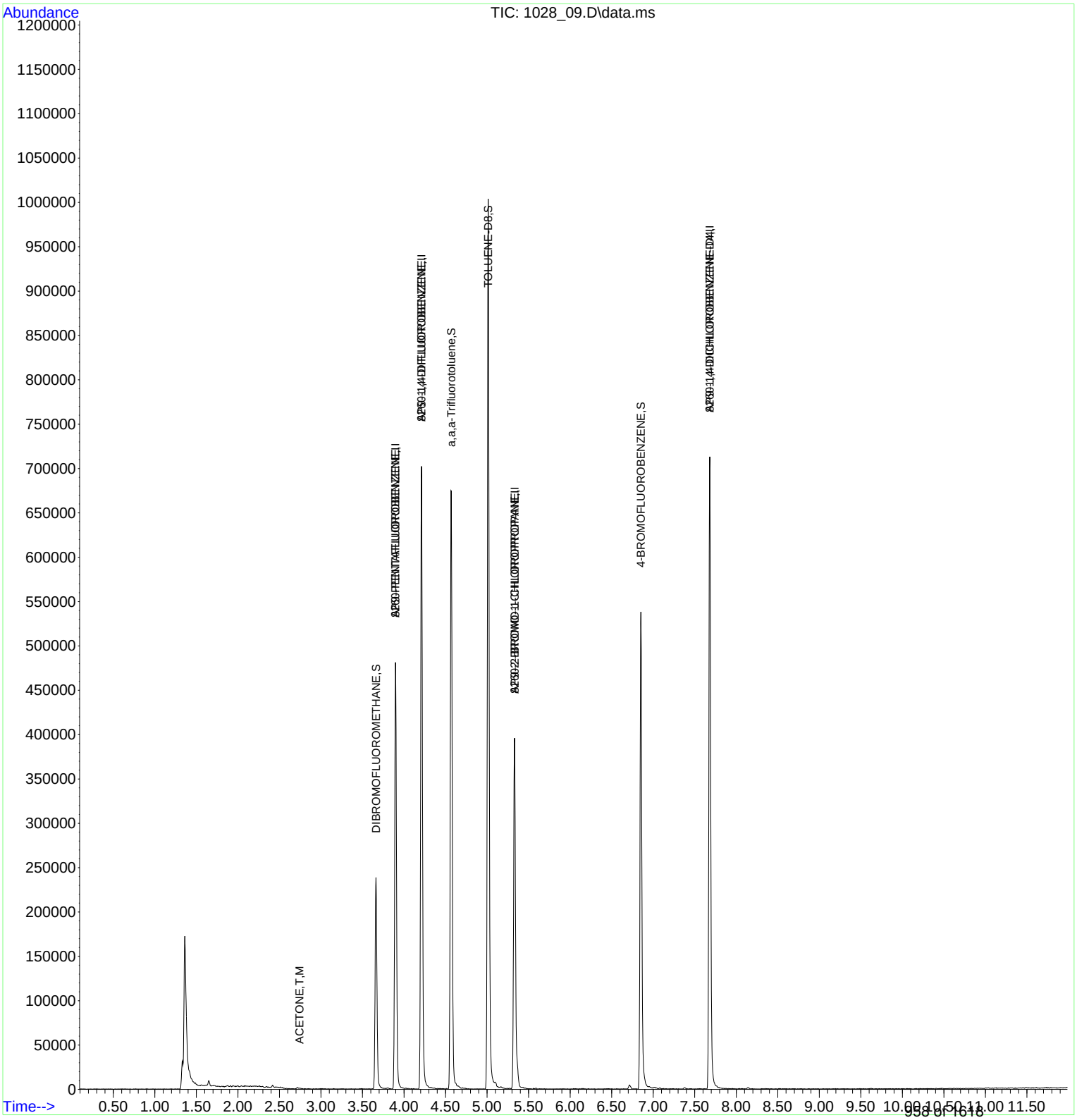
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	248329	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	454604	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	74702	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	169294	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	248329	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	454604	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	74702	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	169294	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	122935	39.4470780 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.62%		
46) a,a,a-Trifluorotoluene	4.569	146	231990	40.9838801 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.46%		
50) TOLUENE-D8	5.013	98	571916	39.2732126 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.18%		
68) 4-BROMOFLUOROBENZENE	6.852	95	187920	38.8047429 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.01%		
Target Compounds					Qvalue
16) ACETONE	2.743	43	918	0.7667442 ppb #	40

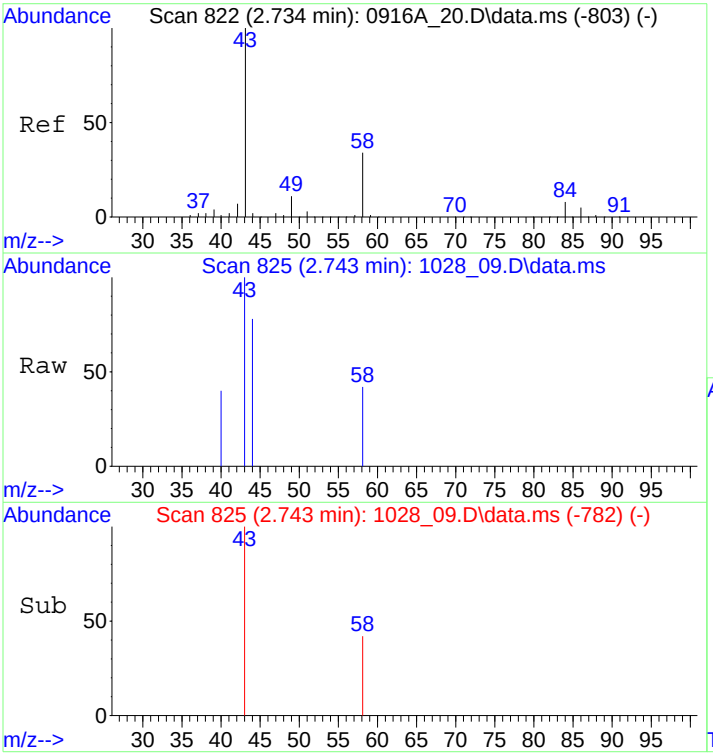
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 09.D
Acq On : 28 Oct 2014 1:22 pm
Operator : 644
Sample : BLANK 1x WG751179
Misc : water SSURR14I25028
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 06 09:43:15 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

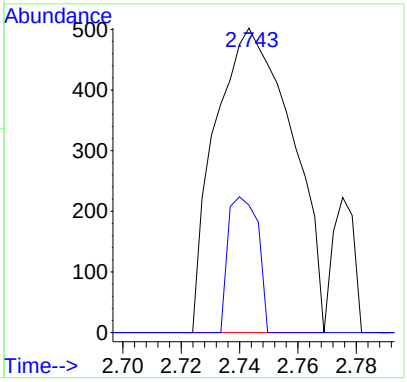




#16
ACETONE
Concen: 0.7667442 ppb
RT: 2.743 min Scan# 825
Delta R.T. 0.007 min
Lab File: 1028 09.D
Acq: 28 Oct 2014 1:22 pm

Tgt Ion: 43 Resp: 918

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.0	42.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 12.D
Acq On : 28 Oct 2014 2:46 pm
Operator : 644
Sample : L729026-04 1x WG751179 V8260 TB
Misc : water SSURR14I25028
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 06 09:53:39 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

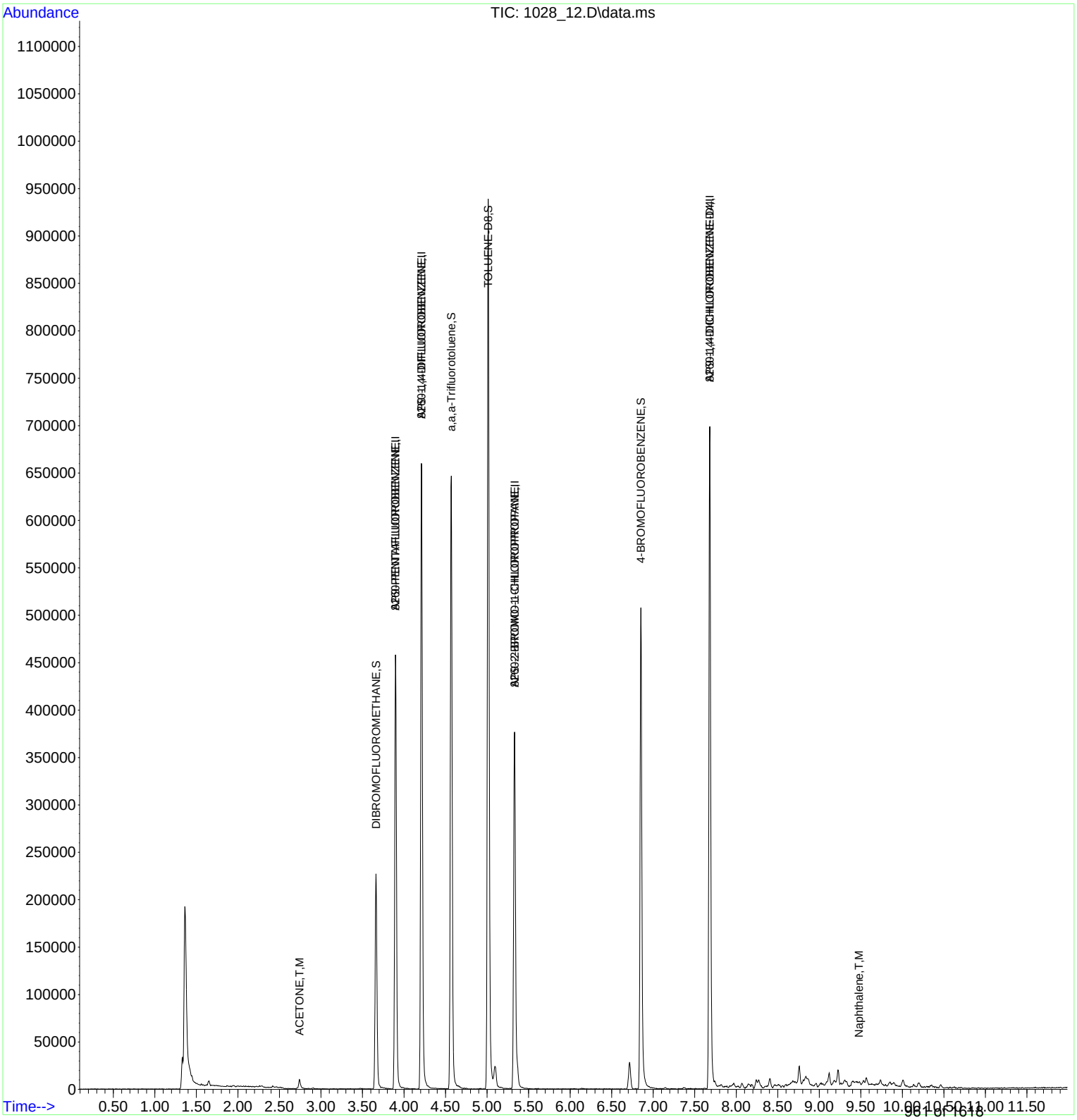
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	233683	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	424236	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	72046	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	164927	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	233683	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	424236	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	72046	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	164927	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	115567	39.4070072 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.52%		
46) a,a,a-Trifluorotoluene	4.569	146	225940	42.7723060 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.93%		
50) TOLUENE-D8	5.013	98	547150	40.2620903 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.66%		
68) 4-BROMOFLUOROBENZENE	6.852	95	178763	38.2747001 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.69%		
Target Compounds					Qvalue
16) ACETONE	2.743	43	11020	9.7811460 ppb	91
92) Naphthalene	9.476	128	1200	2.8462518 ppb #	72

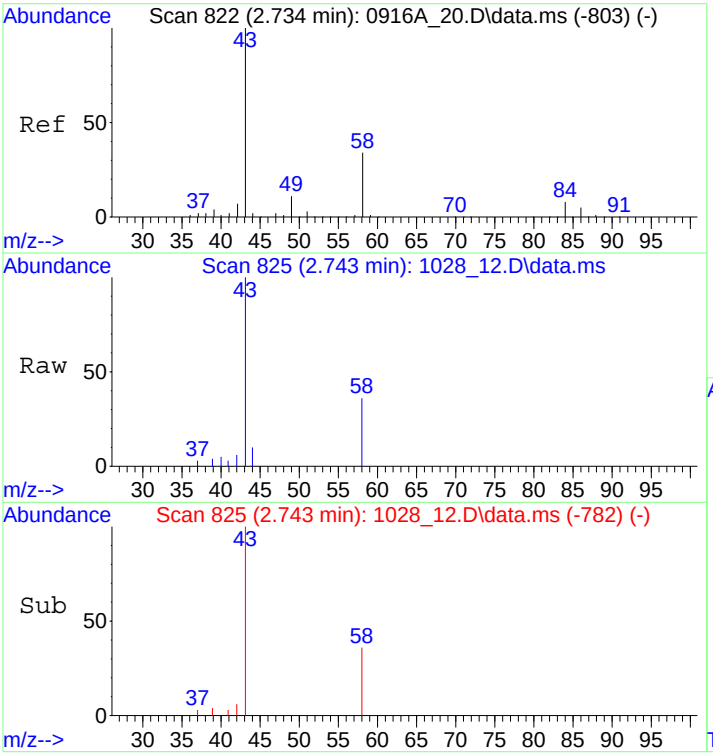
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 12.D
Acq On : 28 Oct 2014 2:46 pm
Operator : 644
Sample : L729026-04 1x WG751179 V8260 TB
Misc : water SSURR14I25028
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 06 09:53:39 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

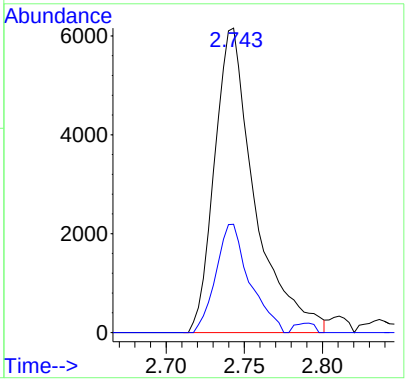


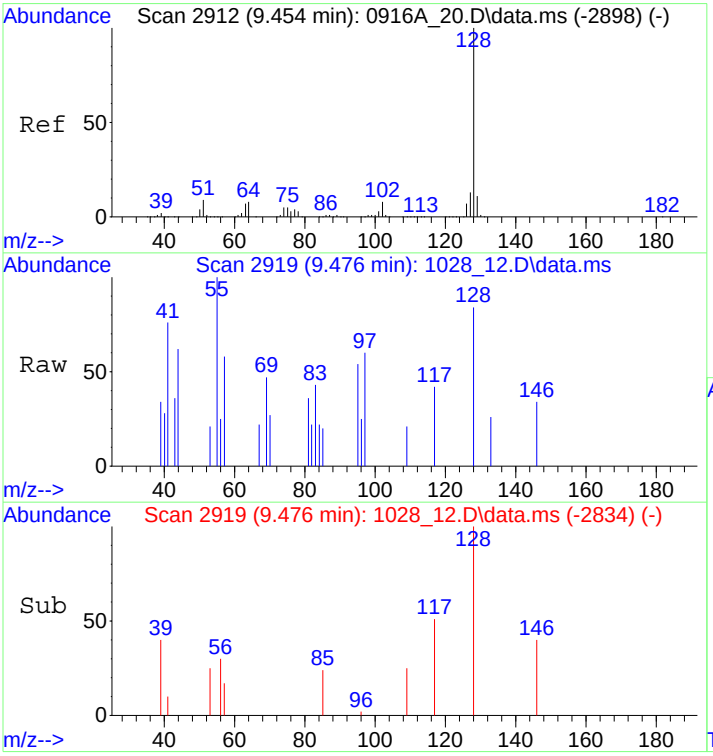


#16
ACETONE
Concen: 9.7811460 ppb
RT: 2.743 min Scan# 825
Delta R.T. 0.007 min
Lab File: 1028 12.D
Acq: 28 Oct 2014 2:46 pm

Tgt Ion: 43 Resp: 11020

Ion	Ratio	Lower	Upper
43	100		
58	29.8	28.0	42.0

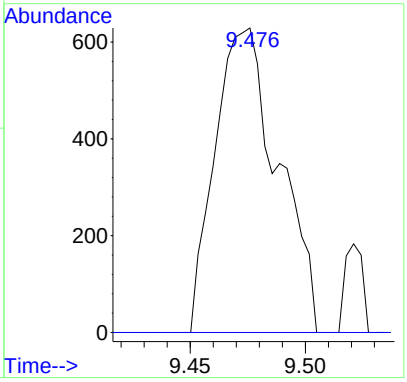




#92
Naphthalene
Concen: 2.8462518 ppb
RT: 9.476 min Scan# 2919
Delta R.T. 0.023 min
Lab File: 1028_12.D
Acq: 28 Oct 2014 2:46 pm

Tgt Ion:128 Resp: 1200

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Derek Ramey
Date Released : 10/29/2014 2:23:02 PM

Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1028_01	INSTBLK	V821I16N						1	1	10/28/14 0848	"water SSURR14I25028"
2	1028_01T	INSTBLK VMS								1	10/28/14 0848	
3	1028_02	ICV VMS 25 PPB 14J27646	V821I16N						1	1	10/28/14 0910	"water SSURR14I25028"
4	1028_02T	ICV VMS 25 ppb 14J27646	V821I16N							1	10/28/14 0910	
5	1028_03	LCS	V821I16N	WG751179	V8260	GW			1	1	10/28/14 0943	"water SSURR14I25028/SPK14J27647"
6	1028_04	LCSD	V821I16N	WG751179	V8260	GW			1	1	10/28/14 1005	"water SSURR14I25028/SPK14J27647"
7	1028_05	MS	V821I16N	WG751179	V8260	GW			1	1	10/28/14 1154	"water SSURR14I25028/SPK14J27647"
8	1028_06	MSD	V821I16N	WG751179	V8260	GW			1	1	10/28/14 1216	"water SSURR14I25028/SPK14J27647"
9	1028_07	INSTBLK	V821I16N						1	1	10/28/14 1238	"water SSURR14I25028"
10	1028_08	INSTBLK	V821I16N						1	1	10/28/14 1300	"water SSURR14I25028"
11	1028_09	BLANK	V821I16N	WG751179	V8260	GW			1	1	10/28/14 1322	"water SSURR14I25028"
12	1028_10	L729021-03 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1402	"water SSURR14I25028"
13	1028_11	L729024-03 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1424	"water SSURR14I25028"
14	1028_12	L729026-04 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1446	"water SSURR14I25028"
15	1028_13	L729030-03 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1508	"water SSURR14I25028"
16	1028_14	L729032-03 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1530	"water SSURR14I25028"
17	1028_15	L729034-07 (TB)	V821I16N	WG751179	V8260	GW	URSTAZ	NM	1	1	10/28/14 1552	"water SSURR14I25028"
18	1028_16	L729094-06 (TB)	V821I16N	WG751179	V8260	GW	USAENVGCO	CO	1	1	10/28/14 1614	"water SSURR14I25028"
19	1028_17	L729302-05	V821I16N	WG751179	V8260BTEXMNI	GW	INSITE	PA	1	1	10/28/14 1637	"water SSURR14I25028"
20	1028_18	L729008-12	V821I16N	WG751179	V8260	GW	LINFUNLKY	KY	1000	1000	10/28/14 1659	"water SSURR14I25028"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Derek Ramey
Date Released : 10/29/2014 2:23:02 PM

Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
21	1028_19	L729008-13	V821I16N	WG751179	V8260	GW	LINFUNLKY	KY	1	1	10/28/14 1720	"water SSURR14I25028"
22	1028_20	L729008-15	V821I16N	WG751179	V8260	GW	LINFUNLKY	KY	500	500	10/28/14 1742	"water SSURR14I25028"
23	1028_21	L729008-16	V821I16N	WG751179	V8260	GW	LINFUNLKY	KY	1	1	10/28/14 1804	"water SSURR14I25028"
24	1028_22	L729034-06	V821I16N	WG751179	V8260	GW	URSTAZ	NM	10	10	10/28/14 1826	"water SSURR14I25028"
25	1028_23	L729223-01	V821I16N	WG751179	V8260	GW	AQUATEMS	MS	1	1	10/28/14 1848	"water SSURR14I25028"
26	1028_24	L729241-05	V821I16N	WG751179	V8260OXYUGMI	GW	GZAGRMI	MI	20	20	10/28/14 1910	"water SSURR14I25028"
27	1028_25	L729241-06	V821I16N	WG751179	V8260OXYUGMI	GW	GZAGRMI	MI	25	25	10/28/14 1932	"water SSURR14I25028"
28	1028_26	L729259-03	V821I16N	WG751179	V8260OXYUGMI	GW	MARATHONFOH	MI	100	100	10/28/14 1954	"water SSURR14I25028"
29	1028_27	L729259-04	V821I16N	WG751179	V8260OXYUGMI	GW	MARATHONFOH	MI	200	200	10/28/14 2016	"water SSURR14I25028"
30	1028_28	L729259-05	V821I16N	WG751179	V8260OXYUGMI	GW	MARATHONFOH	MI	1	1	10/28/14 2038	"water SSURR14I25028"
31	1028_29	L729259-06	V821I16N	WG751179	V8260OXYUGMI	GW	MARATHONFOH	MI	1	1	10/28/14 2100	"water SSURR14I25028"
32	1028_30	INSTBLK	V821I16N						1	1	10/28/14 2122	"water SSURR14I25028"
33	1028_30T	INSTBLK VMS								1	10/28/14 2122	
34	1028_31	DNR	V821I16N						1	1	10/28/14 2228	"water SSURR14I25028"
35	1028_32	ICV VMS 25 PPB 14J27646	V821I16N						1	1	10/28/14 2351	"soil SSURR14I25028"
36	1028_32T	ICV	V821I16N							1	10/28/14 2351	
37	1028_33	LCS	V821I16N	WG750239	V8260	SS			1	1	10/29/14 0007	"soil SSURR14I25028/spk14J27647 "
38	1028_34	LCSD	V821I16N	WG750239	V8260	SS			1	1	10/29/14 0029	"soil SSURR14I25028/spk14J27647 "
39	1028_35	INSTBLK	V821I16N						1	1	10/29/14 0117	"water SSURR14I25028"
40	1028_36	BLANK	V821I16N	WG750239	V8260	SS			1	1	10/29/14 0139	"soil SSURR14I25028"
41	1028_37	MS	V821I16N	WG750239	V8260	SS			1	1	10/29/14 0201	"soil SSURR14I25028/spk14J27647 "
42	1028_38	MSD	V821I16N	WG750239	V8260	SS			1	1	10/29/14 0223	"soil SSURR14I25028/spk14J27647 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Derek Ramey
Date Released : 10/29/2014 2:23:02 PM

Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
43	1028_39	INSTBLK	V821I16N						1	5	10/29/14 0245	"soil SSURR14I25028"
44	1028_40	L729021-02	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	1	10/29/14 0307	"soil SSURR14I25028"
45	1028_41	L728938-07	V821I16N	WG750239	V8260	SS	CBRECNC	TX	1	0.75	10/29/14 0329	"soil SSURR14I25028"
46	1028_42	L728938-08	V821I16N	WG750239	V8260	SS	CBRECNC	TX	1	0.76	10/29/14 0351	"soil SSURR14I25028"
47	1028_43	L728938-09	V821I16N	WG750239	V8260	SS	CBRECNC	TX	1	0.87	10/29/14 0414	"soil SSURR14I25028"
48	1028_44	L729012-01	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.88	10/29/14 0436	"soil SSURR14I25028"
49	1028_45	L729012-02	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.94	10/29/14 0458	"soil SSURR14I25028"
50	1028_46	L729012-04	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.84	10/29/14 0520	"soil SSURR14I25028"
51	1028_47	L729012-05	V821I16N	WG750239	V8260	SS	URSTAZ	NM	80	80	10/29/14 0542	"soil SSURR14I25028"
52	1028_48	BAD	V821I16N						1	0.89	10/29/14 0604	"soil SSURR14I25028"
53	1028_49	L729012-06	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.89	10/29/14 0800	"soil SSURR14I25028"
54	1028_50	L729012-07	V821I16N	WG750239	V8260	SS	URSTAZ	NM	19.5	19.5	10/29/14 0822	"soil SSURR14I25028"
55	1028_51	L729021-01	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.78	10/29/14 0844	"soil SSURR14I25028"
56	1028_52	L729024-01	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.8	10/29/14 0929	"soil SSURR14I25028"
57	1028_53	L729024-02	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.76	10/29/14 0951	"soil SSURR14I25028"
58	1028_54	L729024-04	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.76	10/29/14 1029	"soil SSURR14I25028"
59	1028_55	L729024-05	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.84	10/29/14 1051	"soil SSURR14I25028"
60	1028_56	CCV VMS 25 PPB 14J27646	V821I16N						1	1	10/29/14 1113	"soil SSURR14I25028"
61	1028_56T	CCV VMS 25 ppb 14J27646	V821I16N							1	10/29/14 1113	
62	1028_57	INSTBLK	V821I16N						1	1	10/29/14 1141	"soil SSURR14I25028"
63	1028_58	L729026-01	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1.08	1.08	10/29/14 1204	"soil SSURR14I25028"
64	1028_59	L729026-02	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.92	10/29/14 1226	"soil SSURR14I25028"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

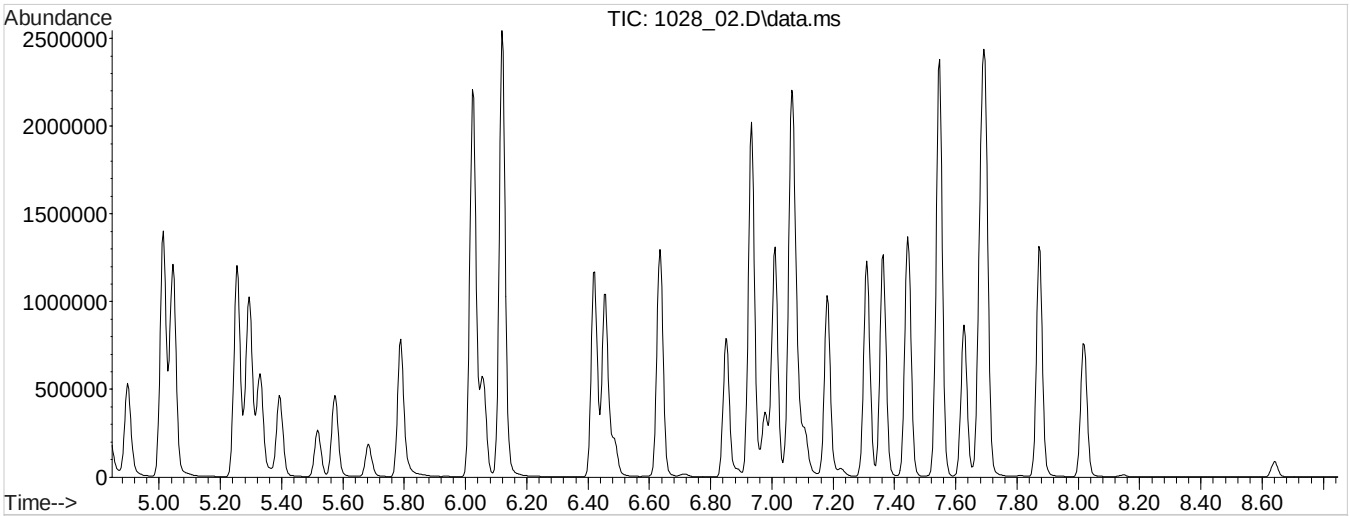
Instrument ID : VOCMS21
Computer Name : VOCCOMPAI
Released By : Derek Ramey
Date Released : 10/29/2014 2:23:02 PM
Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
65	1028_60	L729026-03	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.82	10/29/14 1248	"soil SSURR14I25028"
66	1028_61	L729026-05	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.86	10/29/14 1310	"soil SSURR14I25028"
67	1028_62	L729026-06	V821I16N	WG750239	V8260	SS	URSTAZ	NM	1	0.86	10/29/14 1340	"soil SSURR14I25028"

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I16N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Wed Sep 17 10:39:25 2014



Spectrum Information: Average of 6.839 to 6.852 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	26520	PASS
75	95	30	60	49.2	71098	PASS
95	95	100	100	100.0	144428	PASS
96	95	5	9	5.0	7275	PASS
173	174	0.00	2	1.2	1138	PASS
174	95	50	150	65.4	94403	PASS
175	174	5	9	8.0	7586	PASS
176	174	95	101	95.6	90210	PASS
177	176	5	9	6.6	5964	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	333500	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	602410	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	103034	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	247394	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	333500	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	602410	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	103034	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	247394	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	153127	36.5866520 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 91.47%		
46) a,a,a-Trifluorotoluene	4.569	146	316322	42.1710375 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.43%		
50) TOLUENE-D8	5.013	98	769964	39.9002560 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.75%		
68) 4-BROMOFLUOROBENZENE	6.849	95	264924	39.6629287 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.16%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	6984282	No Calib	
3) PROPENE	1.447	41	34982	22.4520909 ppb	97
4) DICHLORODIFLUOROMETHANE	1.479	85	118388	23.2105931 ppb	100
5) CHLOROMETHANE	1.627	50	194313	23.9178606 ppb	99
6) VINYL CHLORIDE	1.688	62	196741	22.5728070 ppb	100
7) 1,3-BUTADIENE	1.701	39	133456	20.9072043 ppb	96
8) BROMOMETHANE	1.910	94	113571	28.4187411 ppb	97
9) CHLOROETHANE	1.991	66	38090	27.1412416 ppb	98
10) TRICHLOROFLUOROMETHANE	2.081	101	182348	24.6204508 ppb	99
11) DICHLOROFLUOROMETHANE	2.110	67	272590	24.4406972 ppb	100
12) ETHYL ETHER	2.264	59	121298	24.2109828 ppb	98
13) ACROLEIN	2.576	56	117058	134.1823351 ppb	99
14) 1,1-DICHLOROETHENE	2.389	61	218915	24.8654860 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	146110	25.5056415 ppb	99
16) ACETONE	2.737	43	171383	106.5877194 ppb	97
17) IODOMETHANE	2.476	142	1015730	140.0662507 ppb	99
18) CARBON DISULFIDE	2.418	76	506812	24.9794490 ppb	99
19) METHYLENE CHLORIDE	2.714	84	142470	21.2063534 ppb	99
20) ACRYLONITRILE	3.158	53	254560	127.8227304 ppb	99
21) n-Hexane	2.843	56	166567	22.3276585 ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.807	96	145425	23.6151563 ppb	94
23) METHYL TERT-BUTYL ETHER	2.856	73	390789	22.4319070 ppb	99
24) 1,1-DICHLOROETHANE	3.139	63	291546	23.8804034 ppb	98
25) VINYL ACETATE	3.251	43	1381497	141.8428962 ppb	99
26) DI-ISOPROPYL ETHER	3.048	45	532799	23.3768316 ppb	98
27) 2,2-Dichloropropane	3.486	77	220776	24.9464511 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	154367	24.0731812 ppb	97
29) 2-BUTANONE (MEK)	3.720	72	82305	115.6655575 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	80048	25.4851652 ppb	94
31) TETRAHYDROFURAN	3.666	42	45928	23.5484236 ppb	94
32) CHLOROFORM	3.563	83	248492	24.2146709 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.692	97	201371	24.0032249 ppb	96
35) CARBON TETRACHLORIDE	3.659	117	190496	25.6690996 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	243620	25.2130003 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	832560	25.5055328 ppb		97
38) HEPTANE	3.843	43	351287	26.7872543 ppb		99
39) BENZENE	3.888	78	713558	25.7282142 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	181935	24.9057885 ppb		99
42) TRICHLOROETHENE	4.209	130	153117	26.1863209 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	129933	26.5935896 ppb		98
44) DIBROMOMETHANE	4.450	93	77683	26.2332252 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	195258	27.3618679 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.839	63	70588	42.2026456 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.897	75	268637	28.5687691 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	301063	132.9289987 ppb		98
51) TOLUENE	5.045	91	733818	25.5613825 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	53060	28.7718213 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.392	97	126560	26.0949358 ppb		97
55) TETRACHLOROETHENE	5.296	164	113210	26.9794251 ppb		98
56) 1,3-Dichloropropane	5.572	76	246908	25.4493133 ppb		100
57) 2-HEXANONE	5.788	58	285383	136.3062415 ppb		97
58) CHLORODIBROMOMETHANE	5.518	129	116886	27.3666894 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	115715	27.3456688 ppb		100
60) CHLOROBENZENE	6.023	112	429602	25.8521247 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	124036	28.3601543 ppb		98
62) ETHYLBENZENE	6.026	106	248927	27.1971133 ppb		97
63) M&P-XYLENE	6.119	106	619574	55.0255202 ppb		98
64) O-XYLENE	6.421	106	283166	26.4539083 ppb		96
65) STYRENE	6.457	104	461574	27.0317976 ppb		98
66) Bromoform	6.486	173	71142	31.1037302 ppb		98
67) Isopropylbenzene	6.634	105	780091	27.2736103 ppb		100
69) Bromobenzene	6.933	77	347435	26.0247865 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	169603	26.9455988 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.087	110	43683	25.6714213 ppb		92
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	44375	28.1801081 ppb	#	93
73) n-Propylbenzene	6.933	91	967786	27.2581894 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	764254	27.3124318 ppb		99
75) 2-Chlorotoluene	7.061	126	171153	27.0447180 ppb		97
76) 4-Chlorotoluene	7.180	91	552300	27.4878837 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	652192	26.9262390 ppb		97
78) tert-Butylbenzene	7.309	119	529214	26.9288881 ppb		99
79) 1,2,4-Trimethylbenzene	7.363	105	626639	27.2062479 ppb		98
80) sec-Butylbenzene	7.444	105	879860	26.9010865 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	307018	27.9273719 ppb		100
82) p-Isopropyltoluene	7.547	119	698126	27.7474101 ppb		99
83) DICYCLOPENTADIENE	7.547	66	885333	26.7567223 ppb		100
85) 1,4-DICHLOROBENZENE	7.691	146	311855	26.2047760 ppb		95
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	643249	26.0368353 ppb		99
87) 1,2-DICHLOROBENZENE	8.019	146	275427	26.5538243 ppb		98
88) n-Butylbenzene	7.871	91	687351	28.2729592 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.643	157	22420	26.8262400 ppb		99
90) 1,2,4-Trichlorobenzene	9.193	180	154642	27.5352074 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	89913	26.5827452 ppb		97
92) Naphthalene	9.457	128	321997	22.7686872 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	131611	26.4891096 ppb		100
94) 1-Methylnaphthalene	10.325	142	71367	No Calib		
95) 2-Methylnaphthalene	10.453	142	72398	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

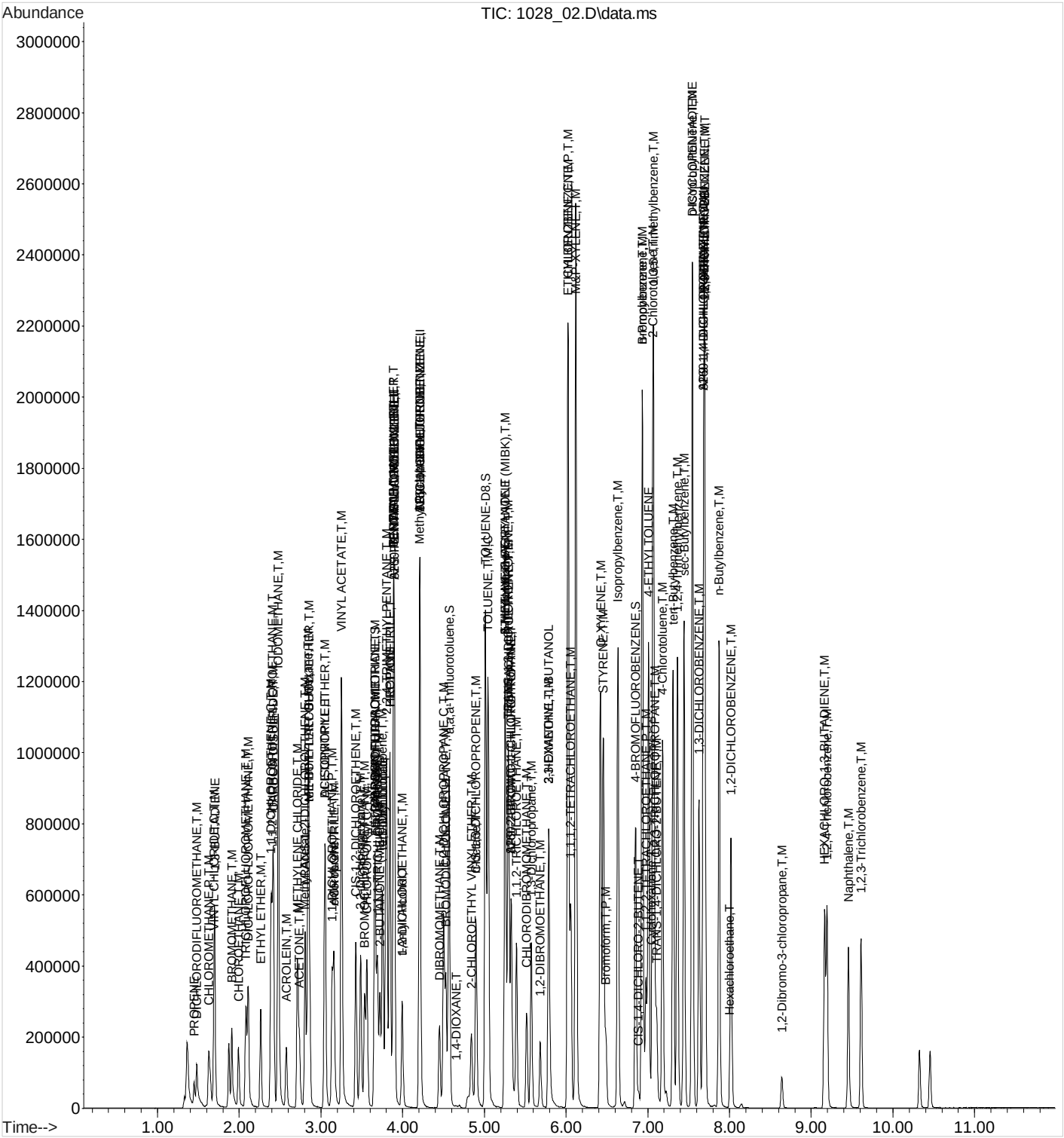
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	5809	1.5925777 ppb #	97
101)	ACETONITRILE	3.048	41	82157	114.9234305 ppb #	40
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.856	59	1310	1.7543178 ppb #	1
104)	chloroprene	3.158	53	254560	43.1100684 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.200	59	738	N.D.	
106)	PROPIONITRILE	3.843	54	2884	3.6664641 ppb #	1
107)	Ethyl Acetate	3.666	43	8577	1.6808191 ppb #	75
108)	METHACRYLONITRILE	3.894	67	1040	0.4268159 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.756	59	813	0.3402472 ppb #	1
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.994	59	852	1.8597339 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	12115	0.7206996 ppb #	64
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.206	83	9825	0.7899707 ppb #	52
117)	2-nitropropane	5.254	43	743204	670.2474963 ppb #	40
118)	METHYL METHACRYLATE	4.656	41	983	N.D.	
119)	1,4-DIOXANE	4.653	88	1059	16.8709219 ppb #	22
120)	n-octane	4.897	85	3378	0.5690798 ppb #	24
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	93372	240.4275112 ppb #	52
123)	ETHYL METHACRYLATE	5.254	69	4354	0.5673913 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2268	1.4418475 ppb #	26
125)	Cyclohexanone	7.045	55	4516	3.4477413 ppb #	23
126)	PENTACHLOROETHANE	7.360	117	21859	No Calib #	
127)	Hexachloroethane	8.000	117	1003	0.3116529 ppb #	34

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 02.D
Acq On : 28 Oct 2014 9:10 am
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 21:31:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 32.D
Acq On : 28 Oct 2014 11:51 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 32 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 00:59:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	391699	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	714536	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	122729	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	291848	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	391699	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	714536	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	122729	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	291848	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.659	111	198370	40.3543414 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.89%		
46) a,a,a-Trifluorotoluene	4.566	146	368577	41.4267799 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.57%		
50) TOLUENE-D8	5.013	98	920487	40.2152691 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.54%		
68) 4-BROMOFLUOROBENZENE	6.849	95	311763	39.1851408 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.96%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	5679631	No Calib	
3) PROPENE	1.450	41	45065	24.7099069 ppb	99
4) DICHLORODIFLUOROMETHANE	1.483	85	130567	21.7949238 ppb	99
5) CHLOROMETHANE	1.627	50	218375	22.8801151 ppb	99
6) VINYL CHLORIDE	1.688	62	218823	21.3760294 ppb	99
7) 1,3-BUTADIENE	1.701	39	155490	20.7397586 ppb	98
8) BROMOMETHANE	1.910	94	123477	26.1798654 ppb	98
9) CHLOROETHANE	1.994	66	44897	27.2382647 ppb	94
10) TRICHLOROFLUOROMETHANE	2.084	101	208815	24.0049090 ppb	98
11) DICHLOROFLUOROMETHANE	2.110	67	299764	22.8837146 ppb	99
12) ETHYL ETHER	2.264	59	142929	24.2897201 ppb	97
13) ACROLEIN	2.576	56	149886	146.2846278 ppb	100
14) 1,1-DICHLOROETHENE	2.389	61	253379	24.5039120 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.409	101	164485	24.4470232 ppb	99
16) ACETONE	2.737	43	230716	122.1688591 ppb	100
17) IODOMETHANE	2.479	142	1186550	139.3107541 ppb	99
18) CARBON DISULFIDE	2.421	76	607537	25.4948272 ppb	100
19) METHYLENE CHLORIDE	2.714	84	166793	21.1379937 ppb	99
20) ACRYLONITRILE	3.158	53	327626	140.0682372 ppb	100
21) n-Hexane	2.843	56	202495	23.1106359 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.807	96	164677	22.7681673 ppb	96
23) METHYL TERT-BUTYL ETHER	2.856	73	460649	22.5132074 ppb	98
24) 1,1-DICHLOROETHANE	3.139	63	324838	22.6539937 ppb	99
25) VINYL ACETATE	3.251	43	1634794	142.9104724 ppb	100
26) DI-ISOPROPYL ETHER	3.048	45	608340	22.7254240 ppb	99
27) 2,2-Dichloropropane	3.486	77	251181	24.1650152 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	171367	22.7535723 ppb	99
29) 2-BUTANONE (MEK)	3.720	72	101290	121.1958595 ppb	94
30) BROMOCHLOROMETHANE	3.534	130	86925	23.5626994 ppb	94
31) TETRAHYDROFURAN	3.666	42	56488	24.6594781 ppb	95
32) CHLOROFORM	3.563	83	269312	22.3442221 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.692	97	224063	22.7397764 ppb	98
35) CARBON TETRACHLORIDE	3.659	117	207983	23.8614037 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 32.D
Acq On : 28 Oct 2014 11:51 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 32 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 00:59:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	263772	23.2425438 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	879395	22.9375076 ppb		97
38) HEPTANE	3.843	43	374170	24.2928496 ppb		98
39) BENZENE	3.888	78	737740	22.6478547 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	193025	22.4978479 ppb		99
42) TRICHLOROETHENE	4.209	130	158571	22.8635097 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	134236	23.1629867 ppb		99
44) DIBROMOMETHANE	4.450	93	80734	22.9853027 ppb		96
45) BROMODICHLOROMETHANE	4.527	83	200633	23.7032191 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.839	63	311724	157.1256538 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.897	75	281121	25.2050201 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	350578	130.5013684 ppb		98
51) TOLUENE	5.045	91	747421	21.9497376 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	54870	25.0843659 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.392	97	129810	22.4699073 ppb		100
55) TETRACHLOROETHENE	5.296	164	117365	23.4811774 ppb		96
56) 1,3-Dichloropropane	5.572	76	264322	22.8721813 ppb		99
57) 2-HEXANONE	5.788	58	349194	140.0192611 ppb		97
58) CHLORODIBROMOMETHANE	5.518	129	122392	24.0572601 ppb		99
59) 1,2-DIBROMOETHANE	5.685	107	123187	24.4397711 ppb		99
60) CHLOROBENZENE	6.023	112	438552	22.1556456 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	125566	24.1027315 ppb		99
62) ETHYLBENZENE	6.026	106	248141	22.7605471 ppb		98
63) M&P-XYLENE	6.119	106	624453	46.5590482 ppb		100
64) O-XYLENE	6.418	106	287237	22.5279921 ppb		99
65) STYRENE	6.457	104	468175	23.0184022 ppb		99
66) Bromoform	6.486	173	75779	27.8143324 ppb		99
67) Isopropylbenzene	6.634	105	792691	23.2666928 ppb		99
69) Bromobenzene	6.933	77	355491	22.3550468 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	187281	24.9793650 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.087	110	49412	24.3782909 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	48329	25.7659087 ppb	#	90
73) n-Propylbenzene	6.933	91	985679	23.3070087 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	777926	23.3396480 ppb		99
75) 2-Chlorotoluene	7.061	126	174153	23.1026749 ppb		97
76) 4-Chlorotoluene	7.180	91	555603	23.2147606 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	652252	22.6073165 ppb		98
78) tert-Butylbenzene	7.309	119	540027	23.0693807 ppb		99
79) 1,2,4-Trimethylbenzene	7.363	105	641811	23.3933140 ppb		99
80) sec-Butylbenzene	7.444	105	902239	23.1585416 ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	310801	23.7346047 ppb		99
82) p-Isopropyltoluene	7.547	119	716276	23.9002479 ppb		99
83) DICYCLOPENTADIENE	7.547	66	900318	22.8431271 ppb		99
85) 1,4-DICHLOROBENZENE	7.691	146	321645	22.9106276 ppb		97
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	655239	22.4823268 ppb		99
87) 1,2-DICHLOROBENZENE	8.019	146	281147	22.9766369 ppb		98
88) n-Butylbenzene	7.871	91	711598	24.8118906 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	27173	27.5609528 ppb		98
90) 1,2,4-Trichlorobenzene	9.193	180	166788	25.1743425 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	95732	23.9920254 ppb		99
92) Naphthalene	9.453	128	392386	23.4295279 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	144404	24.6369439 ppb		97
94) 1-Methylnaphthalene	10.325	142	119723	No Calib		
95) 2-Methylnaphthalene	10.453	142	120706	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 32.D
Acq On : 28 Oct 2014 11:51 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 32 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 00:59:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

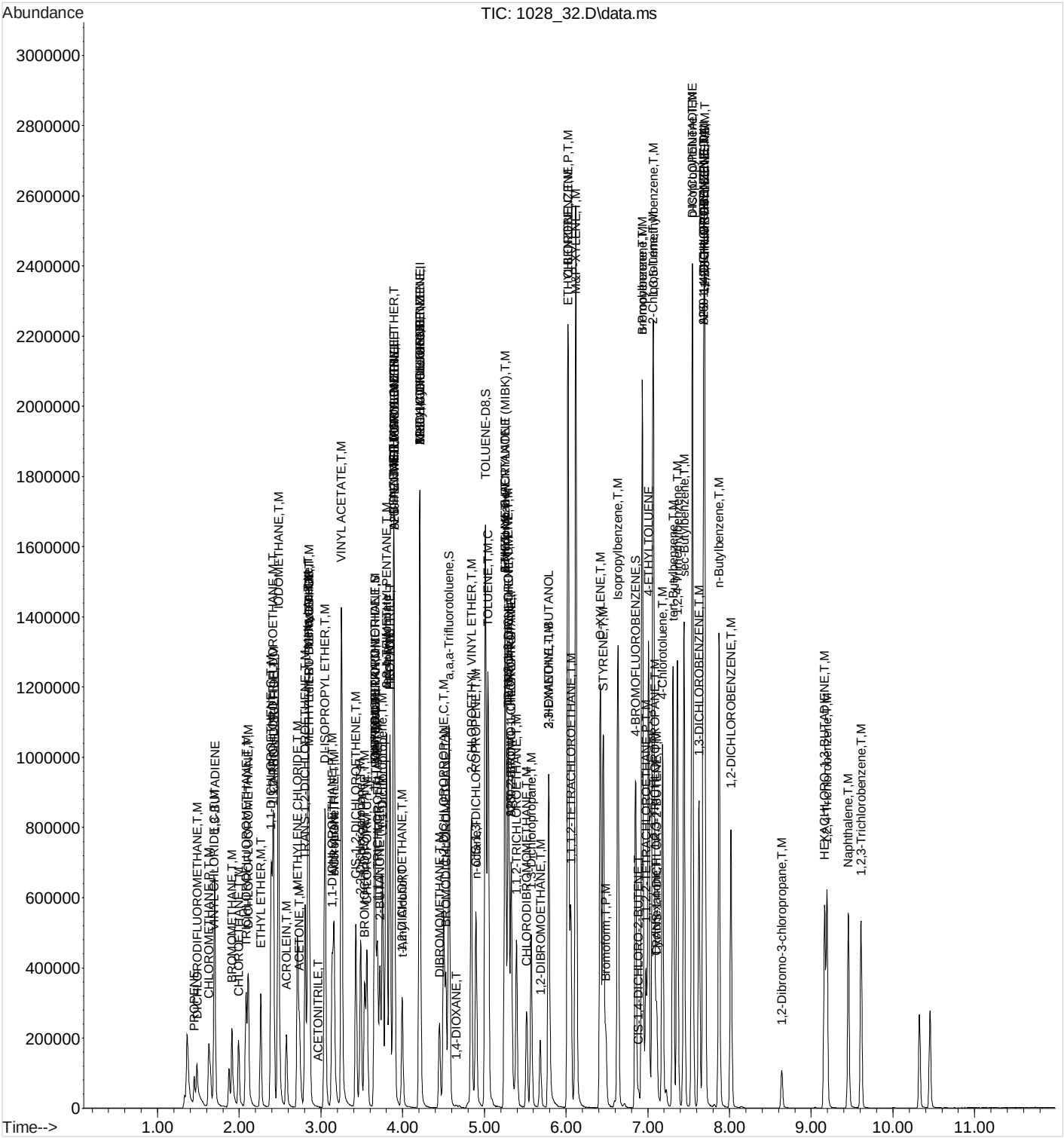
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.843	43	307492	71.7755352 ppb #	68
101)	ACETONITRILE	2.965	41	635	0.7562774 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.852	59	1318	1.5027813 ppb #	1
104)	chloroprene	3.158	53	327626	47.2400430 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.196	59	2286	N.D.	
106)	PROPIONITRILE	3.843	54	2693	2.9149553 ppb #	1
107)	Ethyl Acetate	3.663	43	10704	1.7859736 ppb #	79
108)	METHACRYLONITRILE	3.894	67	1289	0.4504053 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.801	59	885	0.3153485 ppb #	1
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.997	59	902	1.6763362 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.891	73	13015	0.6592018 ppb #	53
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.209	83	11425	0.7744666 ppb #	49
117)	2-nitropropane	5.254	43	865386	657.9684737 ppb #	40
118)	METHYL METHACRYLATE	4.656	41	831	N.D.	
119)	1,4-DIOXANE	4.656	88	795	10.6777080 ppb #	1
120)	n-octane	4.900	85	3588	0.5096054 ppb #	26
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	112040	243.1753819 ppb #	51
123)	ETHYL METHACRYLATE	5.254	69	5911	0.6466788 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2303	1.2291463 ppb #	24
125)	Cyclohexanone	7.103	55	849	0.5441540 ppb #	23
126)	PENTACHLOROETHANE	7.363	117	19981	No Calib #	
127)	Hexachloroethane	8.006	117	983	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 32.D
Acq On : 28 Oct 2014 11:51 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 32 Sample Multiplier: 1

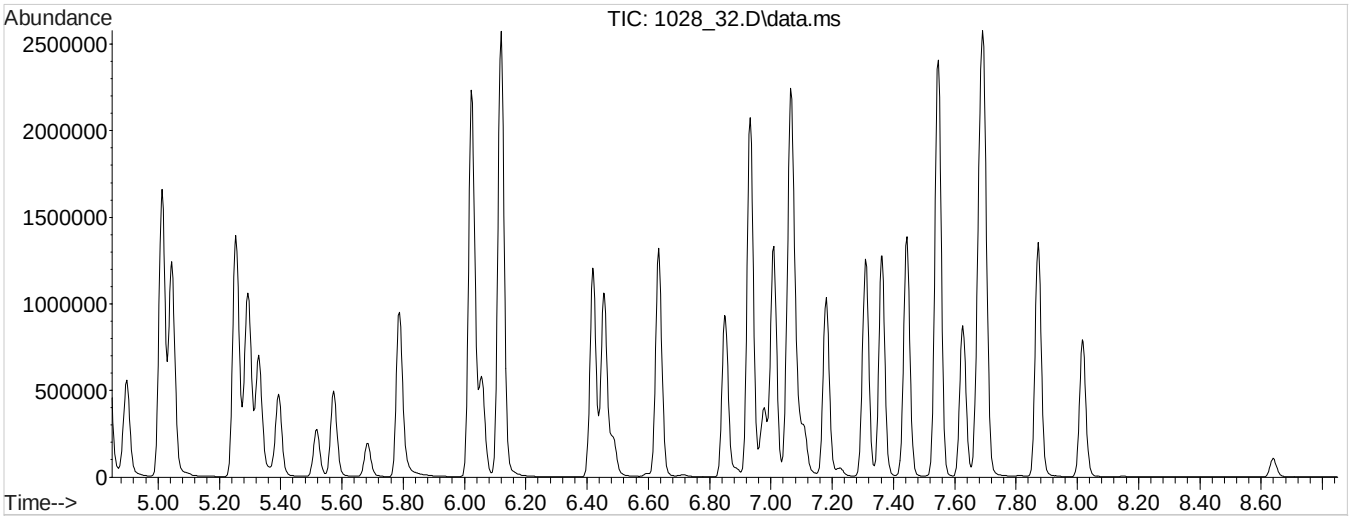
InstName : VOCMS21
Quant Time: Oct 29 00:59:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

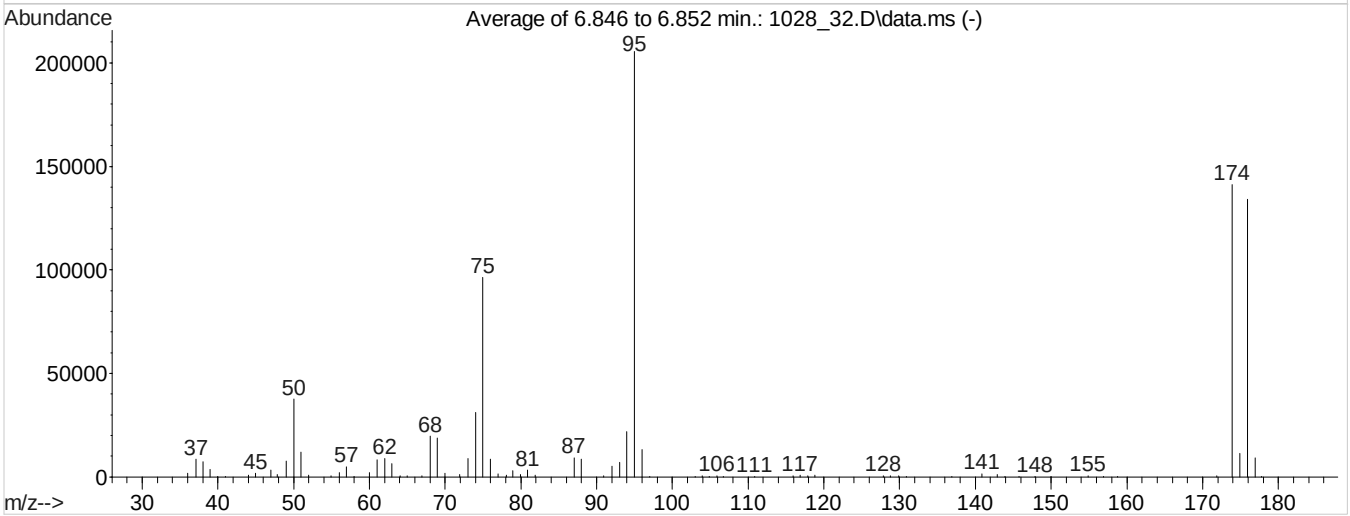


Data Path : C:\msdchem\1\data\102814\
Data File : 1028 32.D
Acq On : 28 Oct 2014 11:51 pm
Operator : 644
Sample : ICV
Misc : water SSURR14I25028
ALS Vial : 32 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I16N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Wed Sep 17 10:39:25 2014





AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2090

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	37648	PASS
75	95	30	60	46.9	96347	PASS
95	95	100	100	100.0	205589	PASS
96	95	5	9	6.4	13181	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	68.6	141080	PASS
175	174	5	9	8.0	11323	PASS
176	174	95	101	95.1	134128	PASS
177	176	5	9	6.7	9026	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 33.D
Acq On : 29 Oct 2014 12:07 am
Operator : 644
Sample : LCS 1x WG750239
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 33 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 00:59:39 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	328134	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	591997	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	102041	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	240365	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	328134	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	591997	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	102041	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	240365	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	151775	36.8566401 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 92.14%		
46) a,a,a-Trifluorotoluene	4.569	146	305589	41.4567518 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.64%		
50) TOLUENE-D8	5.013	98	749021	39.4977105 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.74%		
68) 4-BROMOFLUOROBENZENE	6.852	95	252944	38.2378717 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.59%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7614668	No Calib	
3) PROPENE	1.450	41	35843	23.4167174 ppb	98
4) DICHLORODIFLUOROMETHANE	1.483	85	116576	23.2290960 ppb	100
5) CHLOROMETHANE	1.627	50	201126	25.1682046 ppb	99
6) VINYL CHLORIDE	1.688	62	203822	23.7676563 ppb	99
7) 1,3-BUTADIENE	1.701	39	145052	23.0954371 ppb	99
8) BROMOMETHANE	1.910	94	117736	30.0342623 ppb	99
9) CHLOROETHANE	1.991	66	42430	30.7281472 ppb	90
10) TRICHLOROFLUOROMETHANE	2.084	101	186872	25.6438859 ppb	98
11) DICHLOROFLUOROMETHANE	2.110	67	276559	25.2020618 ppb	100
12) ETHYL ETHER	2.264	59	124209	25.1974418 ppb	97
13) ACROLEIN	2.576	56	125641	146.3761216 ppb	100
14) 1,1-DICHLOROETHENE	2.389	61	230121	26.5657627 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.409	101	153421	27.2198499 ppb	98
16) ACETONE	2.737	43	184113	116.3773568 ppb	99
17) IODOMETHANE	2.479	142	1073075	150.3937909 ppb	99
18) CARBON DISULFIDE	2.421	76	564558	28.2806337 ppb	100
19) METHYLENE CHLORIDE	2.714	84	147758	22.3531215 ppb	99
20) ACRYLONITRILE	3.158	53	280366	143.0829479 ppb	99
21) n-Hexane	2.843	56	181691	24.7532505 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.807	96	149912	24.7418834 ppb	97
23) METHYL TERT-BUTYL ETHER	2.856	73	408313	23.8210926 ppb	94
24) 1,1-DICHLOROETHANE	3.139	63	297353	24.7543486 ppb	100
25) VINYL ACETATE	3.251	43	1335475	139.3599598 ppb	100
26) DI-ISOPROPYL ETHER	3.048	45	547151	24.3991136 ppb	98
27) 2,2-Dichloropropane	3.486	77	227067	26.0768746 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	156907	24.8694365 ppb	99
29) 2-BUTANONE (MEK)	3.720	72	91222	130.2932844 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	80535	26.0595095 ppb	95
31) TETRAHYDROFURAN	3.666	42	50981	26.5666786 ppb	92
32) CHLOROFORM	3.563	83	246500	24.4133675 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.692	97	216102	26.1803869 ppb	100
35) CARBON TETRACHLORIDE	3.659	117	197771	27.0851964 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 33.D
Acq On : 29 Oct 2014 12:07 am
Operator : 644
Sample : LCS 1x WG750239
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 33 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 00:59:39 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.756	75	255474	26.8721802 ppb		100
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	878266	27.3457308 ppb		97
38)	HEPTANE	3.843	43	383627	29.7317104 ppb		98
39)	BENZENE	3.891	78	731321	26.7998901 ppb		100
40)	1,2-DICHLOROETHANE	3.994	62	189990	26.4337871 ppb		100
42)	TRICHLOROETHENE	4.209	130	156353	27.2100888 ppb		99
43)	1,2-DICHLOROPROPANE	4.502	62	132628	27.6226527 ppb		99
44)	DIBROMOMETHANE	4.450	93	78927	27.1221405 ppb		96
45)	BROMODICHLOROMETHANE	4.531	83	196999	28.0914136 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	4.839	63	86293	52.4997256 ppb		98
48)	CIS-1,3-DICHLOROPROPENE	4.897	75	269859	29.2035249 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.254	58	333218	149.7143636 ppb		96
51)	TOLUENE	5.045	91	747174	26.4844158 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	54070	29.8352132 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.392	97	129398	26.9397266 ppb		98
55)	TETRACHLOROETHENE	5.296	164	121948	29.3446164 ppb		95
56)	1,3-Dichloropropane	5.572	76	251552	26.1802950 ppb		98
57)	2-HEXANONE	5.788	58	321422	155.0133484 ppb		98
58)	CHLORODIBROMOMETHANE	5.518	129	122162	28.8803037 ppb		98
59)	1,2-DIBROMOETHANE	5.685	107	122406	29.2083787 ppb		98
60)	CHLOROBENZENE	6.023	112	431715	26.2320929 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.058	133	126014	29.0927978 ppb		96
62)	ETHYLBENZENE	6.026	106	256983	28.3505216 ppb		95
63)	M&P-XYLENE	6.119	106	631227	56.6059904 ppb		98
64)	O-XYLENE	6.421	106	286712	27.0458392 ppb		99
65)	STYRENE	6.457	104	464291	27.4555223 ppb		97
66)	Bromoform	6.486	173	72498	32.0050335 ppb		97
67)	Isopropylbenzene	6.634	105	799861	28.2369471 ppb		99
69)	Bromobenzene	6.933	77	343504	25.9807248 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	181634	29.1378371 ppb	#	99
71)	1,2,3-TRICHLOROPROPANE	7.087	110	48306	28.6645012 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.109	53	48402	31.0365508 ppb	#	94
73)	n-Propylbenzene	6.933	91	988828	28.1218754 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	790819	28.5368215 ppb		100
75)	2-Chlorotoluene	7.061	126	174278	27.8065023 ppb		98
76)	4-Chlorotoluene	7.180	91	558272	28.0554967 ppb		97
77)	1,3,5-Trimethylbenzene	7.068	105	659822	27.5063444 ppb		97
78)	tert-Butylbenzene	7.309	119	548419	28.1776937 ppb		98
79)	1,2,4-Trimethylbenzene	7.363	105	642747	28.1771551 ppb		98
80)	sec-Butylbenzene	7.444	105	906650	27.9899271 ppb		99
81)	1,3-DICHLOROBENZENE	7.627	146	313398	28.7851373 ppb		99
82)	p-Isopropyltoluene	7.547	119	722096	28.9794030 ppb		99
83)	DICYCLOPENTADIENE	7.547	66	894228	27.2885448 ppb		100
85)	1,4-DICHLOROBENZENE	7.691	146	312932	27.0642284 ppb		91
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	656536	27.3517775 ppb		99
87)	1,2-DICHLOROBENZENE	8.019	146	283218	28.1034315 ppb		99
88)	n-Butylbenzene	7.871	91	714190	30.2360042 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.640	157	25891	31.8853329 ppb		99
90)	1,2,4-Trichlorobenzene	9.193	180	166714	30.5527916 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	91693	27.9017508 ppb		97
92)	Naphthalene	9.453	128	372238	26.5719276 ppb		97
93)	1,2,3-Trichlorobenzene	9.611	180	140270	29.0574769 ppb		98
94)	1-Methylnaphthalene	10.325	142	122681	No Calib		
95)	2-Methylnaphthalene	10.453	142	125557	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 33.D
Acq On : 29 Oct 2014 12:07 am
Operator : 644
Sample : LCS 1x WG750239
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 33 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 00:59:39 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

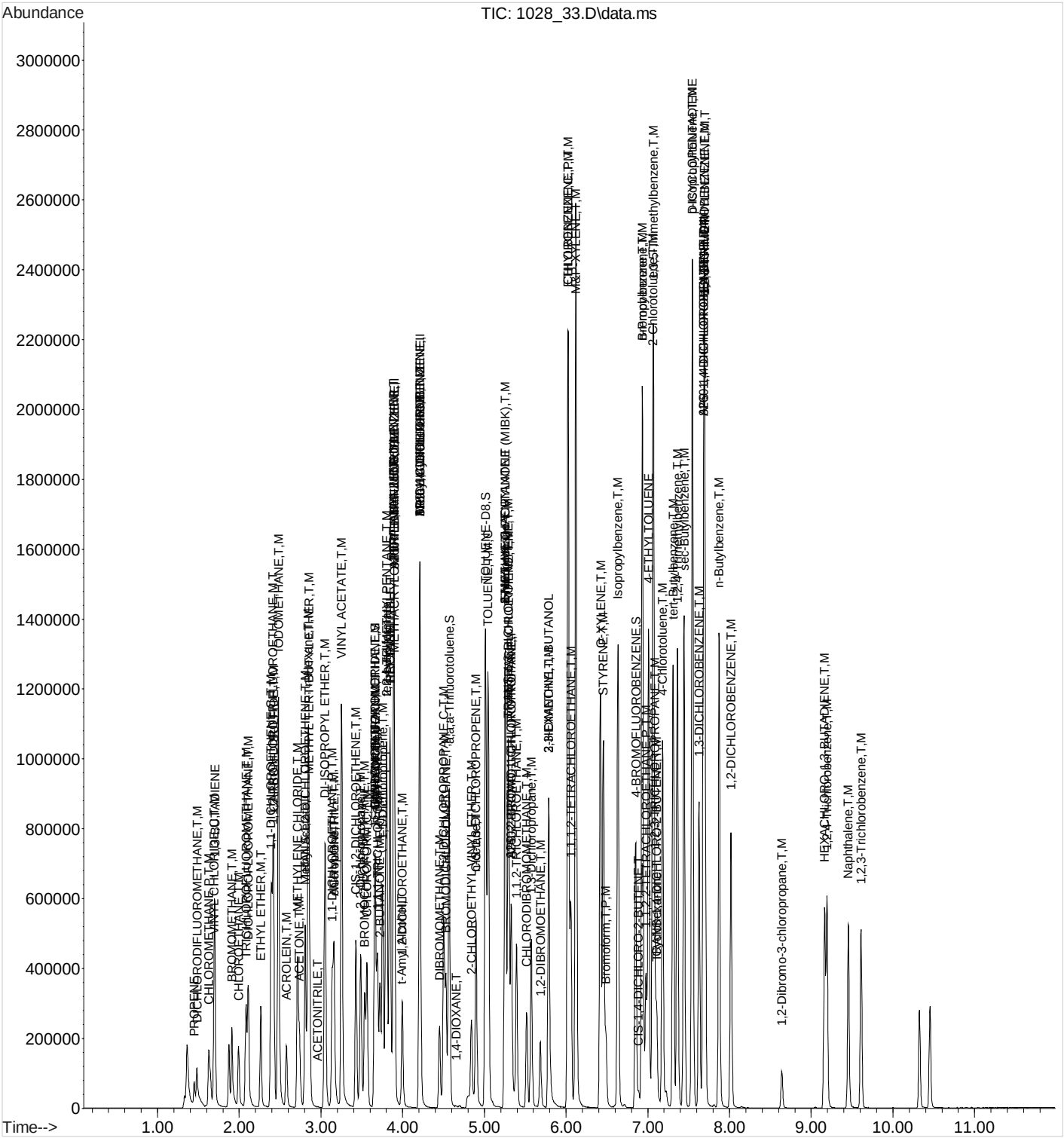
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.804	43	5942	1.6556804 ppb #	90
101)	ACETONITRILE	2.962	41	1531	2.1766260 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.158	53	280366	48.2567979 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.200	59	849	N.D.	
106)	PROPIONITRILE	3.846	54	2978	3.8478796 ppb #	1
107)	Ethyl Acetate	3.663	43	9997	1.9911311 ppb #	66
108)	METHACRYLONITRILE	3.901	67	961	0.4008438 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.801	59	793	0.3373043 ppb #	1
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.987	59	523	1.1602658 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	12628	0.7635017 ppb #	70
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.209	83	10411	0.8518115 ppb #	52
117)	2-nitropropane	5.254	43	810620	743.9044271 ppb #	40
118)	METHYL METHACRYLATE	4.656	41	824	N.D.	
119)	1,4-DIOXANE	4.656	88	1178	19.0968093 ppb #	36
120)	n-octane	4.897	85	3868	0.6630902 ppb #	29
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	105193	275.0028666 ppb #	49
123)	ETHYL METHACRYLATE	5.254	69	5548	0.7300231 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2257	1.4488175 ppb #	27
125)	Cyclohexanone	7.106	55	960	0.7400445 ppb #	1
126)	PENTACHLOROETHANE	7.363	117	21478	No Calib #	
127)	Hexachloroethane	8.006	117	847	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 33.D
Acq On : 29 Oct 2014 12:07 am
Operator : 644
Sample : LCS 1x WG750239
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 33 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 00:59:39 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 34.D
Acq On : 29 Oct 2014 12:29 am
Operator : 644
Sample : LCSD 1x WG750239
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 34 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 01:00:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	325102	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	573678	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	103190	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	247302	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	325102	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	573678	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	103190	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	247302	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	146881	36.0008465 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 90.00%		
46) a,a,a-Trifluorotoluene	4.570	146	305431	42.7584525 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.90%		
50) TOLUENE-D8	5.013	98	732418	39.8554987 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.64%		
68) 4-BROMOFLUOROBENZENE	6.849	95	252988	37.8186781 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 94.55%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7666253	No Calib	
3) PROPENE	1.447	41	35221	23.2178665 ppb	98
4) DICHLORODIFLUOROMETHANE	1.483	85	110404	22.2044264 ppb	98
5) CHLOROMETHANE	1.628	50	197314	24.9201621 ppb	99
6) VINYL CHLORIDE	1.689	62	195675	23.0304399 ppb	100
7) 1,3-BUTADIENE	1.701	39	137419	22.0841577 ppb	97
8) BROMOMETHANE	1.910	94	113620	29.2102802 ppb	98
9) CHLOROETHANE	1.991	66	39043	28.5389582 ppb	96
10) TRICHLOROFLUOROMETHANE	2.084	101	183759	25.4518768 ppb	99
11) DICHLOROFLUOROMETHANE	2.110	67	269454	24.7836064 ppb	100
12) ETHYL ETHER	2.264	59	124285	25.4480022 ppb	97
13) ACROLEIN	2.576	56	113095	132.9884266 ppb	99
14) 1,1-DICHLOROETHENE	2.390	61	220766	25.7234856 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	145378	26.0334184 ppb	99
16) ACETONE	2.737	43	170805	108.9723222 ppb	100
17) IODOMETHANE	2.480	142	1033476	146.1947633 ppb	99
18) CARBON DISULFIDE	2.418	76	542847	27.4466664 ppb	100
19) METHYLENE CHLORIDE	2.714	84	145962	22.2873571 ppb	99
20) ACRYLONITRILE	3.158	53	256453	132.0997236 ppb	98
21) n-Hexane	2.843	56	178022	24.4795872 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.808	96	142131	23.6764595 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	394846	23.2502595 ppb	95
24) 1,1-DICHLOROETHANE	3.139	63	284459	23.9017912 ppb	99
25) VINYL ACETATE	3.251	43	1188041	125.1311022 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	517753	23.3034954 ppb	100
27) 2,2-Dichloropropane	3.486	77	213709	24.7717062 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	148100	23.6924666 ppb	99
29) 2-BUTANONE (MEK)	3.724	72	79915	115.2079204 ppb	98
30) BROMOCHLOROMETHANE	3.534	130	73936	24.1473299 ppb	97
31) TETRAHYDROFURAN	3.666	42	43779	23.0264157 ppb	97
32) CHLOROFORM	3.563	83	234558	23.4472874 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	198601	24.2845632 ppb	99
35) CARBON TETRACHLORIDE	3.660	117	188608	26.0712036 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 34.D
Acq On : 29 Oct 2014 12:29 am
Operator : 644
Sample : LCSD 1x WG750239
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 34 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 01:00:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	237427	25.2068103 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	828346	26.0319580 ppb		96
38)	HEPTANE	3.843	43	352063	27.5399219 ppb		98
39)	BENZENE	3.888	78	685617	25.3593512 ppb		100
40)	1,2-DICHLOROETHANE	3.994	62	174176	24.4595549 ppb		98
42)	TRICHLOROETHENE	4.209	130	148794	26.7214777 ppb		99
43)	1,2-DICHLOROPROPANE	4.502	62	123790	26.6052312 ppb		98
44)	DIBROMOMETHANE	4.451	93	73869	26.1946075 ppb		97
45)	BROMODICHLOROMETHANE	4.528	83	184985	27.2205813 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.840	63	74665	46.8759245 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	4.897	75	249787	27.8945597 ppb		98
49)	4-METHYL-2-PENTANONE (...	5.254	58	306596	142.1519463 ppb		97
51)	TOLUENE	5.045	91	722880	26.4415047 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	51809	29.5004945 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.393	97	125676	25.8734930 ppb		99
55)	TETRACHLOROETHENE	5.296	164	115078	27.3831342 ppb		97
56)	1,3-Dichloropropane	5.573	76	245240	25.2391755 ppb		100
57)	2-HEXANONE	5.788	58	297197	141.7343163 ppb		97
58)	CHLORODIBROMOMETHANE	5.518	129	114565	26.7827196 ppb		99
59)	1,2-DIBROMOETHANE	5.685	107	116498	27.4890865 ppb		99
60)	CHLOROBENZENE	6.023	112	406579	24.4296835 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.058	133	124248	28.3656795 ppb	#	100
62)	ETHYLBENZENE	6.026	106	245197	26.7490834 ppb		96
63)	M&P-XYLENE	6.119	106	603462	53.5135605 ppb		100
64)	O-XYLENE	6.422	106	278731	26.0002161 ppb		98
65)	STYRENE	6.457	104	452499	26.4602633 ppb		99
66)	Bromoform	6.486	173	68523	29.9133962 ppb		98
67)	Isopropylbenzene	6.634	105	780420	27.2438639 ppb		99
69)	Bromobenzene	6.933	77	336146	25.1411133 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	174080	27.6150692 ppb	#	98
71)	1,2,3-TRICHLOROPROPANE	7.084	110	46887	27.5126771 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.106	53	43787	27.7646644 ppb	#	90
73)	n-Propylbenzene	6.933	91	942011	26.4921126 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	757242	27.0209300 ppb		99
75)	2-Chlorotoluene	7.061	126	175423	27.6775359 ppb		91
76)	4-Chlorotoluene	7.180	91	535175	26.5953082 ppb		98
77)	1,3,5-Trimethylbenzene	7.068	105	638293	26.3125694 ppb		97
78)	tert-Butylbenzene	7.309	119	532851	27.0729655 ppb		99
79)	1,2,4-Trimethylbenzene	7.360	105	623166	27.0145618 ppb		100
80)	sec-Butylbenzene	7.444	105	875736	26.7345204 ppb		99
81)	1,3-DICHLOROBENZENE	7.627	146	296478	26.9278482 ppb		100
82)	p-Isopropyltoluene	7.547	119	691293	27.4342914 ppb		98
83)	DICYCLOPENTADIENE	7.544	66	878057	26.4967077 ppb		100
85)	1,4-DICHLOROBENZENE	7.692	146	300149	25.2305185 ppb		95
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	626659	25.3747570 ppb		99
87)	1,2-DICHLOROBENZENE	8.016	146	267820	25.8300416 ppb		99
88)	n-Butylbenzene	7.872	91	665310	27.3765226 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.640	157	23761	28.4413657 ppb		100
90)	1,2,4-Trichlorobenzene	9.193	180	149098	26.5579314 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	88478	26.1682193 ppb		99
92)	Naphthalene	9.454	128	348536	24.4279929 ppb		99
93)	1,2,3-Trichlorobenzene	9.611	180	127764	25.7243971 ppb		98
94)	1-Methylnaphthalene	10.325	142	102867	No Calib		
95)	2-Methylnaphthalene	10.454	142	108930	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 34.D
Acq On : 29 Oct 2014 12:29 am
Operator : 644
Sample : LCSD 1x WG750239
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 34 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 01:00:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

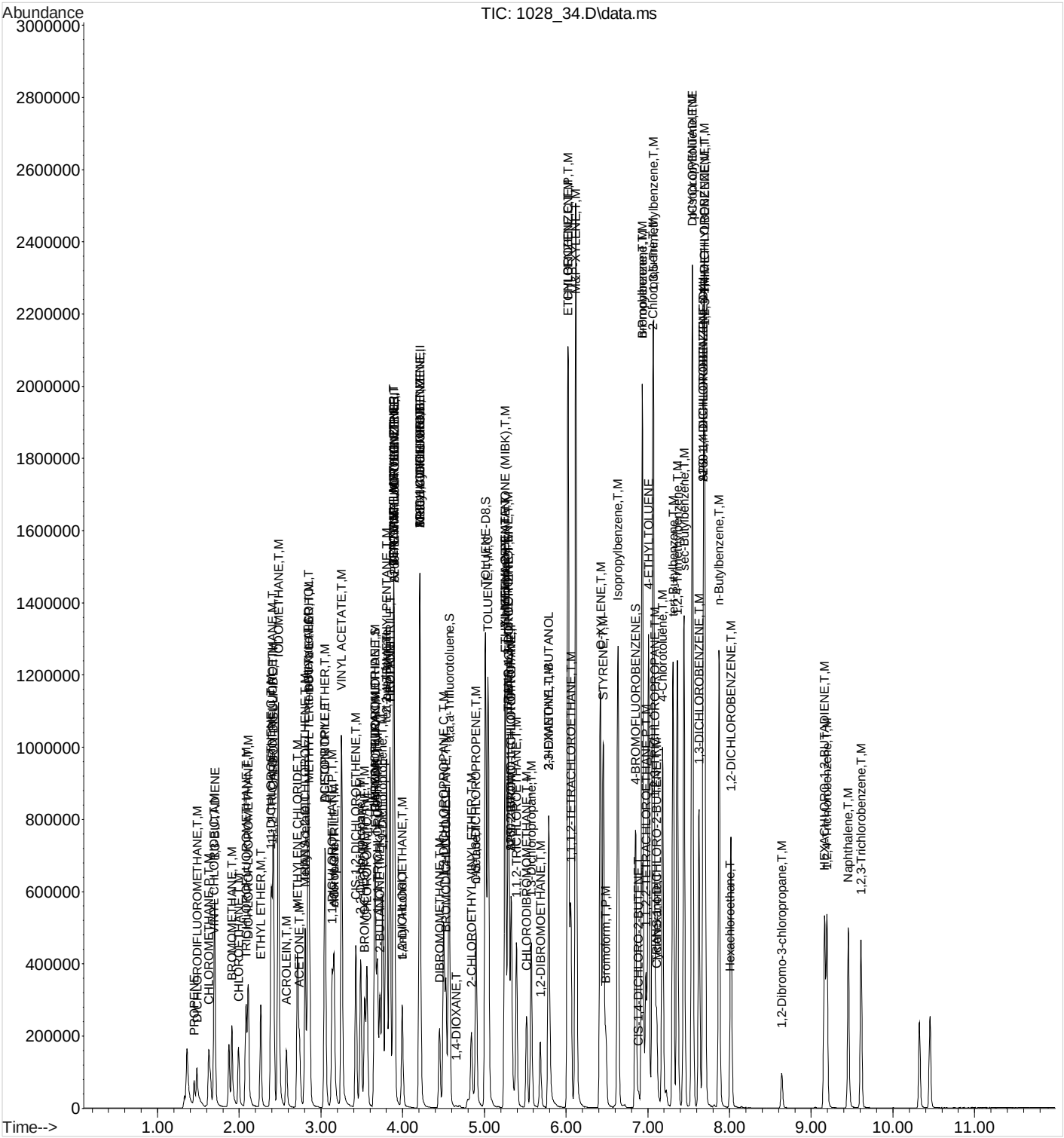
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.804	43	5279	1.4846603 ppb #	97
101)	ACETONITRILE	3.049	41	78673	112.8927148 ppb #	40
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.849	59	1096	1.5056490 ppb #	1
104)	chloroprene	3.158	53	256453	44.5525463 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.197	59	851	N.D.	
106)	PROPIONITRILE	3.843	54	2404	3.1351826 ppb #	1
107)	Ethyl Acetate	3.618	43	528	N.D.	
108)	METHACRYLONITRILE	3.894	67	766	0.3224870 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.798	59	703	0.3018114 ppb #	1
111)	ISOBUTANOL	3.933	41	515	No Calib #	
112)	t-Amyl Alcohol	3.994	59	961	2.1518441 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	12359	0.7542067 ppb #	78
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.209	83	9356	0.7899373 ppb #	51
117)	2-nitropropane	5.254	43	749284	709.5738434 ppb #	40
118)	METHYL METHACRYLATE	4.653	41	506	N.D.	
119)	1,4-DIOXANE	4.656	88	507	8.4815415 ppb #	1
120)	n-octane	4.897	85	3057	0.5407953 ppb #	25
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	96672	261.0182573 ppb #	49
123)	ETHYL METHACRYLATE	5.258	69	4733	0.6158483 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	1896	1.2035317 ppb #	27
125)	Cyclohexanone	7.110	55	1242	0.9467717 ppb #	23
126)	PENTACHLOROETHANE	7.364	117	20863	No Calib #	
127)	Hexachloroethane	8.003	117	981	0.3043562 ppb #	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 34.D
Acq On : 29 Oct 2014 12:29 am
Operator : 644
Sample : LCSD 1x WG750239
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 34 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 01:00:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 36.D
Acq On : 29 Oct 2014 1:39 am
Operator : 644
Sample : BLANK 1X WG750239
Misc : Soil SSURR14I25028
ALS Vial : 36 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 06 09:56:55 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

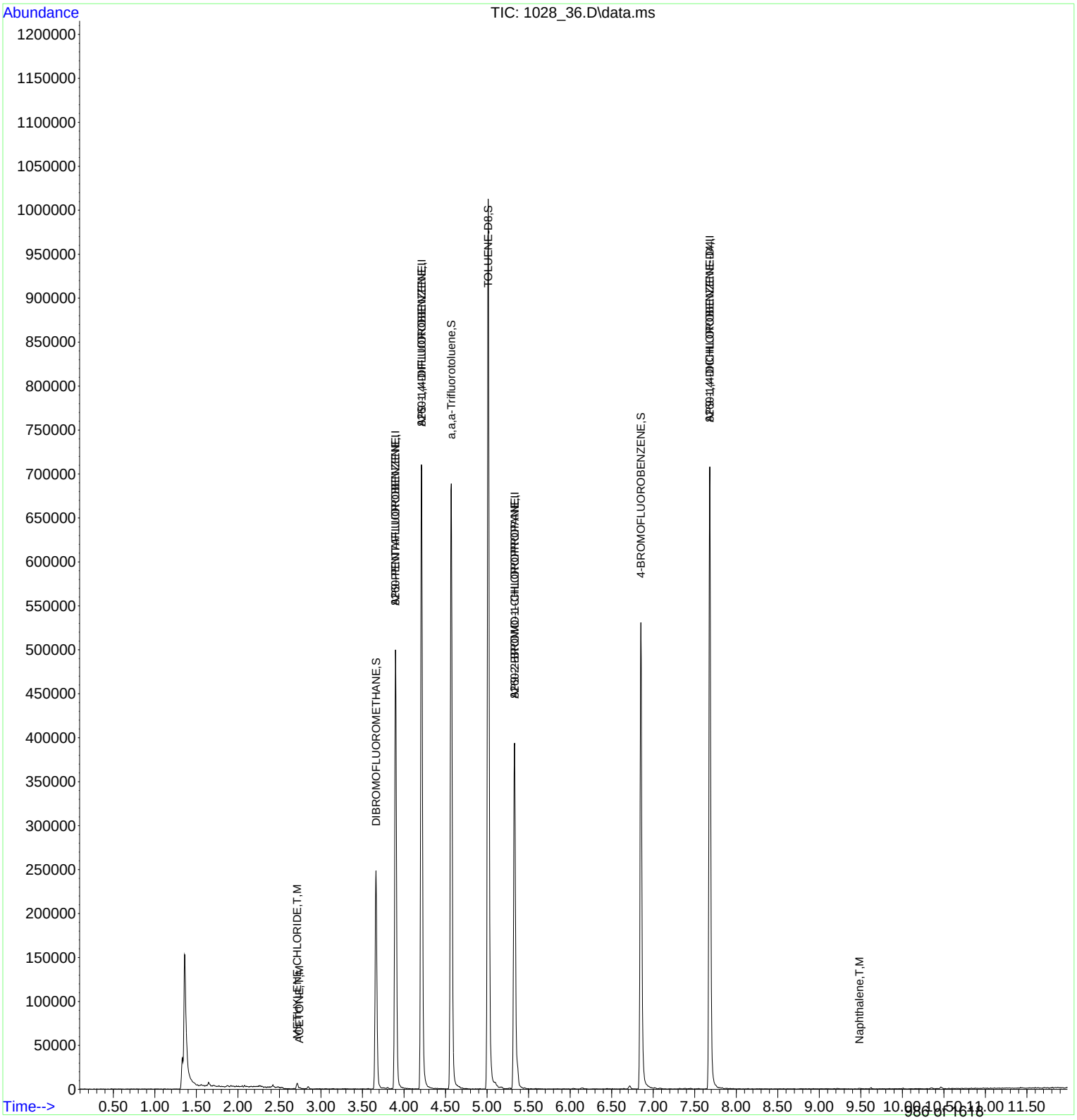
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	251041	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.213	114	460122	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	74681	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	167081	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	251041	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.213	114	460122	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	74681	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	167081	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	125244	39.7538328 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.38%		
46) a,a,a-Trifluorotoluene	4.569	146	235487	41.1027613 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.76%		
50) TOLUENE-D8	5.013	98	579332	39.3053758 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.26%		
68) 4-BROMOFLUOROBENZENE	6.852	95	186306	38.4822762 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.21%		
Target Compounds					Qvalue
16) ACETONE	2.740	43	1286	1.0625065 ppb #	40
19) METHYLENE CHLORIDE	2.714	84	2297	0.4542080 ppb	92
92) Naphthalene	9.482	128	1120	2.8374378 ppb #	72

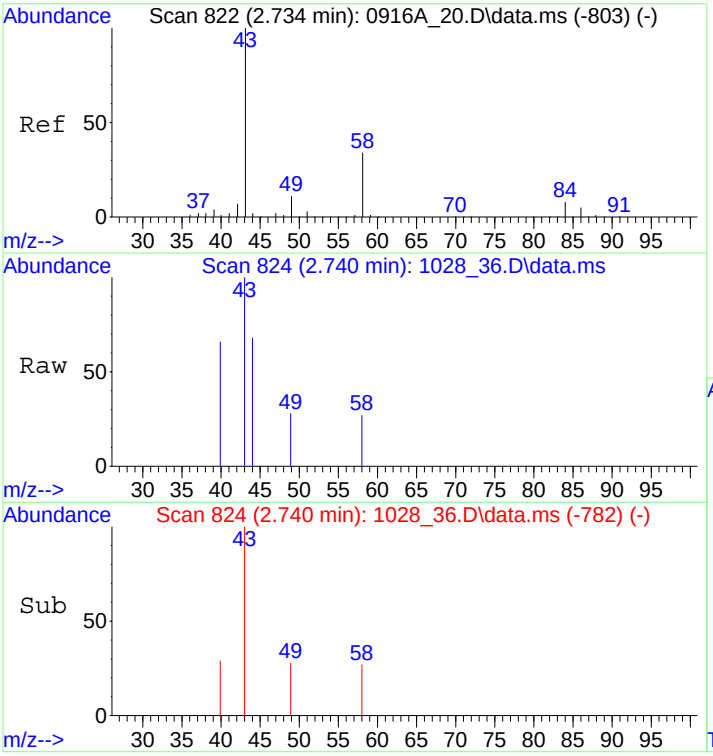
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 36.D
Acq On : 29 Oct 2014 1:39 am
Operator : 644
Sample : BLANK 1X WG750239
Misc : Soil SSURR14I25028
ALS Vial : 36 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 06 09:56:55 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

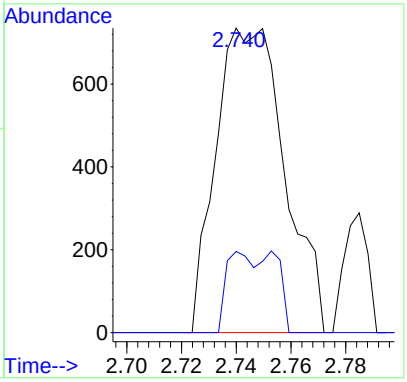


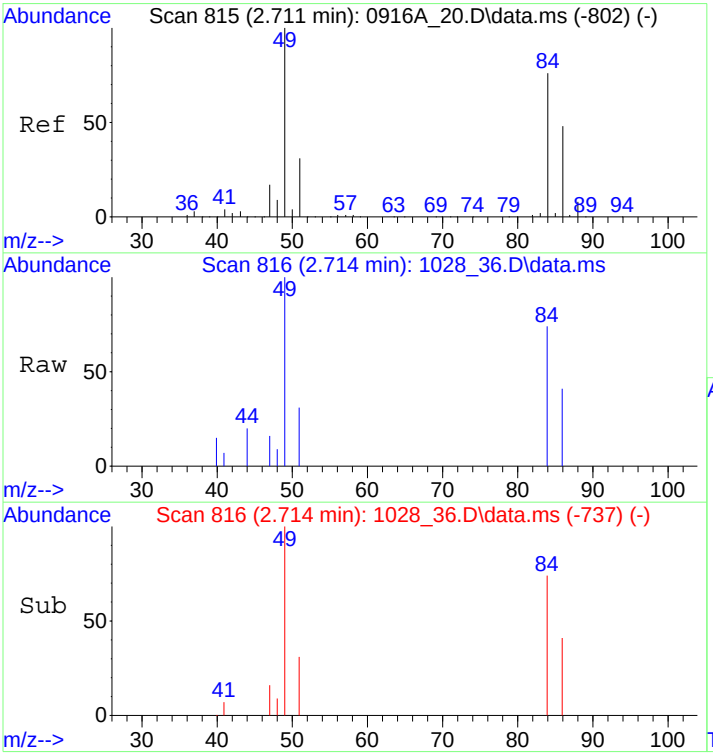


#16
ACETONE
Concen: 1.0625065 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1028 36.D
Acq: 29 Oct 2014 1:39 am

Tgt Ion: 43 Resp: 1286

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.0	42.0#

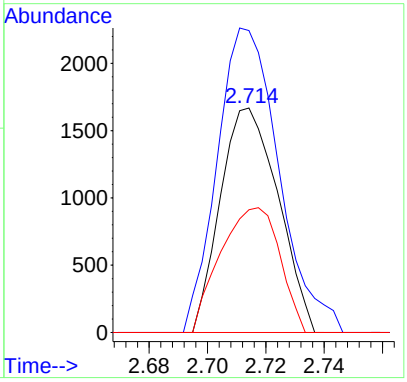


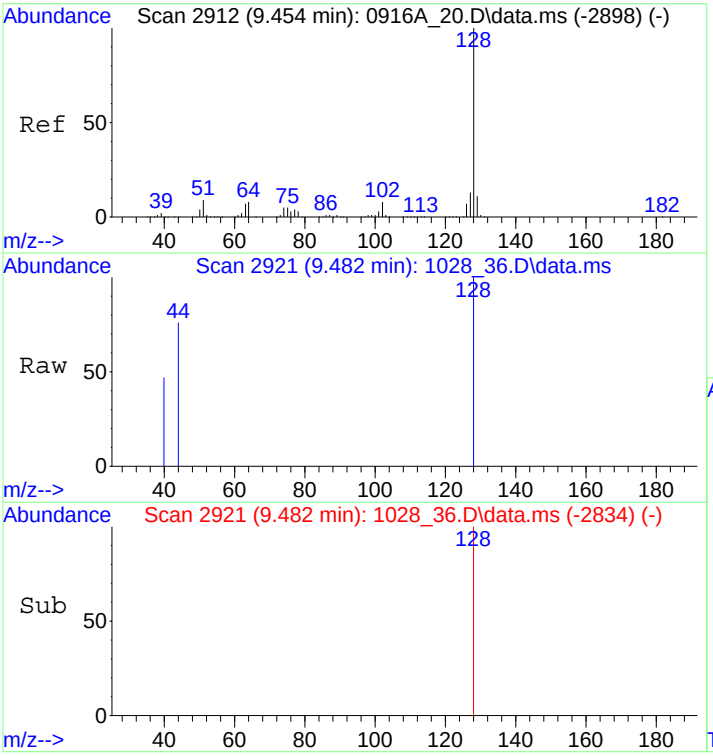


#19
METHYLENE CHLORIDE
Concen: 0.4542080 ppb
RT: 2.714 min Scan# 816
Delta R.T. 0.003 min
Lab File: 1028_36.D
Acq: 29 Oct 2014 1:39 am

Tgt Ion: 84 Resp: 2297

Ion	Ratio	Lower	Upper
84	100		
49	145.1	108.7	163.1
86	57.1	50.8	76.2

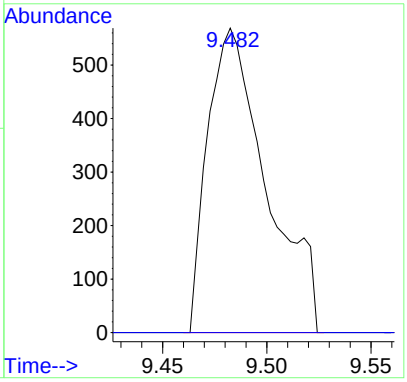




#92
Naphthalene
Concen: 2.8374378 ppb
RT: 9.482 min Scan# 2921
Delta R.T. 0.029 min
Lab File: 1028 36.D
Acq: 29 Oct 2014 1:39 am

Tgt Ion:128 Resp: 1120

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 37.D
Acq On : 29 Oct 2014 2:01 am
Operator : 644
Sample : MS 1x WG750239 L729021-02
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 37 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:08:24 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	325378	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	587817	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	105138	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	267219	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	325378	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	587817	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	105138	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	267219	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	156245	38.2634985 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 95.66%		
46) a,a,a-Trifluorotoluene	4.569	146	298246	40.7483048 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.87%		
50) TOLUENE-D8	5.013	98	740898	39.3471893 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.37%		
68) 4-BROMOFLUOROBENZENE	6.849	95	261161	38.3171013 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.79%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	6000043	No Calib	
3) PROPENE	1.447	41	29472	19.2696536 ppb	99
4) DICHLORODIFLUOROMETHANE	1.483	85	115780	23.2658944 ppb	98
5) CHLOROMETHANE	1.627	50	185154	23.3562799 ppb	97
6) VINYL CHLORIDE	1.688	62	182695	21.4844880 ppb	99
7) 1,3-BUTADIENE	1.701	39	122867	19.7288044 ppb	98
8) BROMOMETHANE	1.910	94	108185	27.7063832 ppb	99
9) CHLOROETHANE	1.991	66	36186	26.4281626 ppb	98
10) TRICHLOROFLUOROMETHANE	2.084	101	172814	23.9156160 ppb	100
11) DICHLOROFLUOROMETHANE	2.110	67	255973	23.5236919 ppb	99
12) ETHYL ETHER	2.264	59	116672	23.8689368 ppb	97
13) ACROLEIN	2.576	56	104127	122.3390926 ppb	98
14) 1,1-DICHLOROETHENE	2.389	61	203862	23.7336954 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	134663	24.0941855 ppb	98
16) ACETONE	2.737	43	162454	103.5565304 ppb	98
17) IODOMETHANE	2.479	142	922104	130.3295161 ppb	99
18) CARBON DISULFIDE	2.418	76	443118	22.3853047 ppb	100
19) METHYLENE CHLORIDE	2.714	84	140834	21.4861071 ppb	99
20) ACRYLONITRILE	3.161	53	242324	124.7159531 ppb	100
21) n-Hexane	2.843	56	144402	19.8396989 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.807	96	129457	21.5469073 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	378298	22.2569455 ppb	92
24) 1,1-DICHLOROETHANE	3.139	63	269793	22.6502449 ppb	99
25) VINYL ACETATE	3.251	43	991393	104.3304655 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	510829	22.9723510 ppb	98
27) 2,2-Dichloropropane	3.486	77	195756	22.6714682 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	140460	22.4511886 ppb	100
29) 2-BUTANONE (MEK)	3.724	72	79515	114.5340328 ppb	94
30) BROMOCHLOROMETHANE	3.534	130	72930	23.7985685 ppb	91
31) TETRAHYDROFURAN	3.666	42	42235	22.1954757 ppb	91
32) CHLOROFORM	3.563	83	226135	22.5861182 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.692	97	187268	22.8793611 ppb	99
35) CARBON TETRACHLORIDE	3.659	117	171391	23.6712090 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 37.D
Acq On : 29 Oct 2014 2:01 am
Operator : 644
Sample : MS 1x WG750239 L729021-02
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 37 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:08:24 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	210723	22.3527615 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	669665	21.0273291 ppb		96
38)	HEPTANE	3.846	43	267204	20.8841465 ppb		98
39)	BENZENE	3.888	78	623269	23.0336914 ppb		99
40)	1,2-DICHLOROETHANE	3.994	62	166195	23.3189852 ppb		99
42)	TRICHLOROETHENE	4.209	130	130731	22.9128804 ppb		99
43)	1,2-DICHLOROPROPANE	4.502	62	113231	23.7505062 ppb		98
44)	DIBROMOMETHANE	4.450	93	68635	23.7531585 ppb		96
45)	BROMODICHLOROMETHANE	4.528	83	173674	24.9414526 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.839	63	68706	42.0972276 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	4.897	75	232909	25.3841136 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.254	58	279086	126.2846108 ppb		98
51)	TOLUENE	5.045	91	631415	22.5403629 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	45982	25.5527706 ppb		96
54)	1,1,2-TRICHLOROETHANE	5.392	97	117606	23.7634830 ppb		98
55)	TETRACHLOROETHENE	5.296	164	96174	22.4608625 ppb		97
56)	1,3-Dichloropropane	5.573	76	226883	22.9173139 ppb		99
57)	2-HEXANONE	5.788	58	261410	122.3575268 ppb		98
58)	CHLORODIBROMOMETHANE	5.518	129	109668	25.1628912 ppb		98
59)	1,2-DIBROMOETHANE	5.685	107	105515	24.4362153 ppb		98
60)	CHLOROBENZENE	6.023	112	368016	21.7028864 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.058	133	112040	25.1046856 ppb	#	98
62)	ETHYLBENZENE	6.026	106	213364	22.8450861 ppb		97
63)	M&P-XYLENE	6.119	106	531893	46.2930821 ppb		100
64)	O-XYLENE	6.421	106	249029	22.7991949 ppb		99
65)	STYRENE	6.457	104	407196	23.3699586 ppb		99
66)	Bromoform	6.486	173	65451	28.0429399 ppb		99
67)	Isopropylbenzene	6.634	105	683494	23.4181681 ppb		99
69)	Bromobenzene	6.933	77	309937	22.7513873 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	170399	26.5303024 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.084	110	44595	25.6829244 ppb		100
72)	TRANS-1,4-DICHLORO-2-B...	7.109	53	43460	27.0467359 ppb	#	95
73)	n-Propylbenzene	6.933	91	841714	23.2328811 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	684623	23.9770078 ppb		100
75)	2-Chlorotoluene	7.061	126	156603	24.2503978 ppb		98
76)	4-Chlorotoluene	7.180	91	497556	24.2677258 ppb		98
77)	1,3,5-Trimethylbenzene	7.068	105	588313	23.8028809 ppb		98
78)	tert-Butylbenzene	7.309	119	493322	24.6001882 ppb		99
79)	1,2,4-Trimethylbenzene	7.363	105	577431	24.5681341 ppb		100
80)	sec-Butylbenzene	7.444	105	809755	24.2622310 ppb		99
81)	1,3-DICHLOROBENZENE	7.627	146	280259	24.9831185 ppb		99
82)	p-Isopropyltoluene	7.547	119	621576	24.2104982 ppb		99
83)	DICYCLOPENTADIENE	7.547	66	829744	24.5748699 ppb		100
85)	1,4-DICHLOROBENZENE	7.691	146	283901	22.0859707 ppb		95
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	601380	22.5361583 ppb		99
87)	1,2-DICHLOROBENZENE	8.016	146	256609	22.9041552 ppb		98
88)	n-Butylbenzene	7.871	91	579155	22.0551155 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.640	157	22211	24.6044770 ppb		96
90)	1,2,4-Trichlorobenzene	9.193	180	122199	20.1442162 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	74707	20.4484533 ppb		98
92)	Naphthalene	9.453	128	295292	19.7440361 ppb		99
93)	1,2,3-Trichlorobenzene	9.611	180	109801	20.4598900 ppb		98
94)	1-Methylnaphthalene	10.325	142	55308	No Calib		
95)	2-Methylnaphthalene	10.457	142	58972	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 37.D
Acq On : 29 Oct 2014 2:01 am
Operator : 644
Sample : MS 1x WG750239 L729021-02
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 37 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:08:24 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 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	2.801	43	31770	8.9273818 ppb	#	96
101)	ACETONITRILE	3.049	41	74134	106.2891895 ppb	#	40
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	3.161	53	242324	42.0622627 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	3.196	59	704	N.D.		
106)	PROPIONITRILE	3.846	54	2317	3.0191581 ppb	#	1
107)	Ethyl Acetate	3.611	43	557	N.D.		
108)	METHACRYLONITRILE	3.894	67	994	0.4181203 ppb	#	1
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	3.759	59	627	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	4.000	59	982	2.1970015 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.891	73	10302	0.6281452 ppb	#	49
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.209	83	9271	0.7639326 ppb	#	50
117)	2-nitropropane	5.254	43	689430	637.1876798 ppb	#	40
118)	METHYL METHACRYLATE	4.659	41	501	N.D.		
119)	1,4-DIOXANE	4.656	88	1024	16.7183280 ppb	#	24
120)	n-octane	4.901	85	2795	0.4825534 ppb	#	26
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	86226	227.7686896 ppb	#	52
123)	ETHYL METHACRYLATE	5.257	69	4952	0.6324057 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	1901	1.1843477 ppb	#	28
125)	Cyclohexanone	7.129	55	1999	1.4955963 ppb	#	54
126)	PENTACHLOROETHANE	7.363	117	19237	No Calib	#	
127)	Hexachloroethane	8.007	117	1095	0.3334304 ppb	#	56

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data File : 1028 37.D
Acq On : 29 Oct 2014 2:01 am
Operator : 644
Sample : MS 1x WG750239 L729021-02
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 37 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:08:24 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
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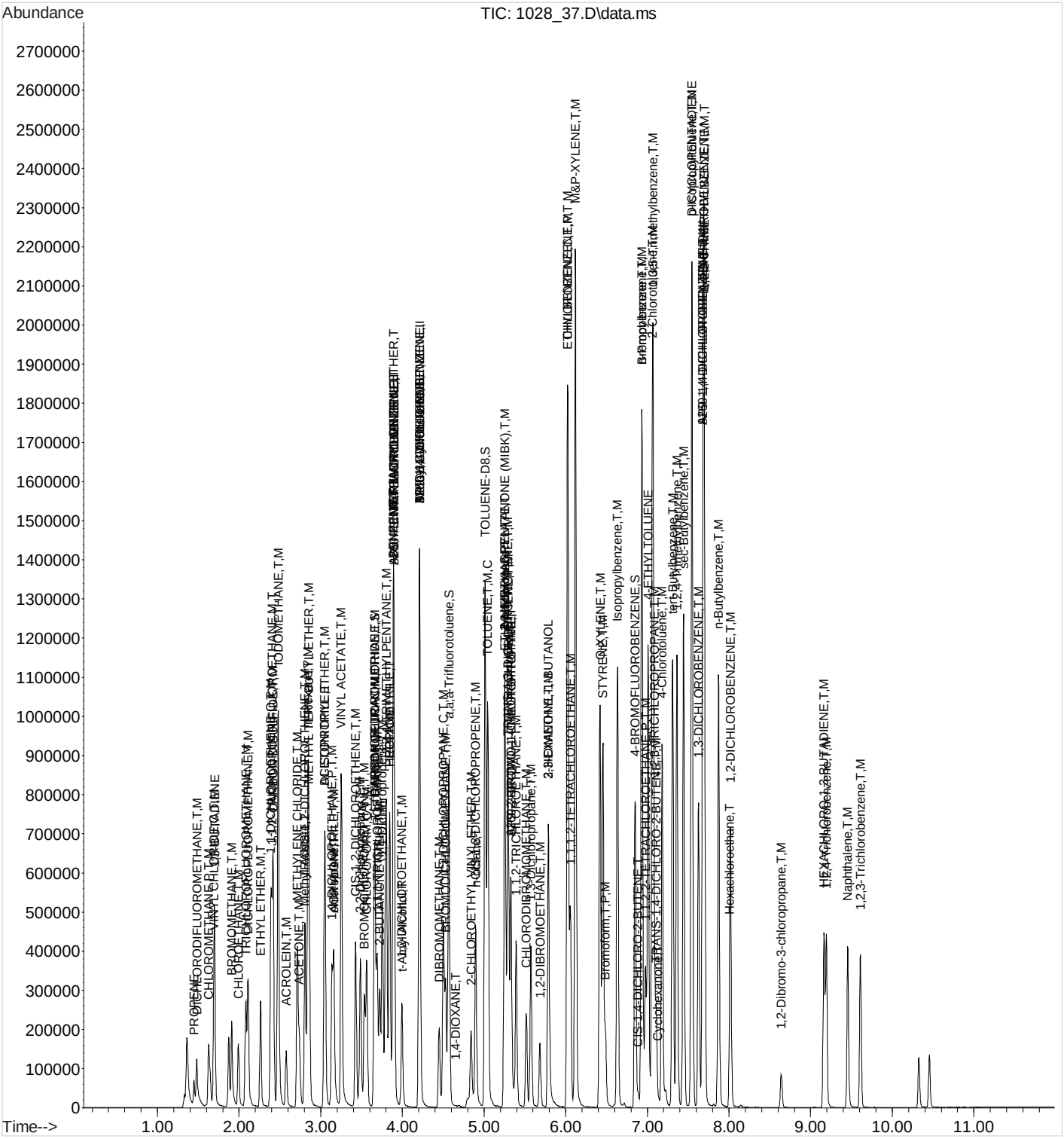

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 38.D
Acq On : 29 Oct 2014 2:23 am
Operator : 644
Sample : MSD 1x WG750239 L729021-02
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 38 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:09:15 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	313662	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	565621	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	99502	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	250243	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	313662	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	565621	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	99502	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	250243	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	151440	38.4720587 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.18%		
46) a,a,a-Trifluorotoluene	4.570	146	284036	40.3296936 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.82%		
50) TOLUENE-D8	5.013	98	694457	38.3280981 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 95.82%		
68) 4-BROMOFLUOROBENZENE	6.849	95	240117	37.2250367 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.06%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	4666127	No Calib	
3) PROPENE	1.448	41	31155	21.2145599 ppb	98
4) DICHLORODIFLUOROMETHANE	1.480	85	118829	24.7705088 ppb	97
5) CHLOROMETHANE	1.628	50	183236	23.9812343 ppb	100
6) VINYL CHLORIDE	1.689	62	184214	22.4722863 ppb	99
7) 1,3-BUTADIENE	1.702	39	124731	20.7762037 ppb	100
8) BROMOMETHANE	1.911	94	106304	28.2745323 ppb	98
9) CHLOROETHANE	1.991	66	37069	28.0842958 ppb	97
10) TRICHLOROFLUOROMETHANE	2.081	101	171978	24.6889046 ppb	99
11) DICHLOROFLUOROMETHANE	2.110	67	257364	24.5349626 ppb	99
12) ETHYL ETHER	2.264	59	119800	25.4243307 ppb	99
13) ACROLEIN	2.576	56	102541	124.9757424 ppb	98
14) 1,1-DICHLOROETHENE	2.390	61	201730	24.3627243 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	134235	24.9147199 ppb	99
16) ACETONE	2.737	43	164487	108.7689509 ppb	98
17) IODOMETHANE	2.476	142	916520	134.3789061 ppb	99
18) CARBON DISULFIDE	2.419	76	442979	23.2141633 ppb	99
19) METHYLENE CHLORIDE	2.714	84	140162	22.1823108 ppb	100
20) ACRYLONITRILE	3.158	53	245763	131.2104300 ppb	99
21) n-Hexane	2.843	56	142105	20.2533798 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.808	96	128874	22.2510747 ppb	97
23) METHYL TERT-BUTYL ETHER	2.856	73	380260	23.2080387 ppb	91
24) 1,1-DICHLOROETHANE	3.139	63	260737	22.7075964 ppb	99
25) VINYL ACETATE	3.251	43	990620	108.1430632 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	498140	23.2384734 ppb	99
27) 2,2-Dichloropropane	3.486	77	196326	23.5867802 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	139892	23.1956118 ppb	97
29) 2-BUTANONE (MEK)	3.721	72	79462	118.7329502 ppb	97
30) BROMOCHLOROMETHANE	3.534	130	70807	23.9688442 ppb	95
31) TETRAHYDROFURAN	3.666	42	41617	22.6876236 ppb	96
32) CHLOROFORM	3.563	83	217361	22.5206911 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.692	97	179448	22.7428675 ppb	99
35) CARBON TETRACHLORIDE	3.660	117	166909	23.9132421 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 38.D
Acq On : 29 Oct 2014 2:23 am
Operator : 644
Sample : MSD 1x WG750239 L729021-02
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 38 Sample Multiplier: 1

InstName : VOCMS21
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QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	206476	22.7203543 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	669732	21.8149308 ppb		96
38) HEPTANE	3.843	43	268482	21.7678345 ppb		97
39) BENZENE	3.888	78	606095	23.2356591 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	161099	23.4482705 ppb		100
42) TRICHLOROETHENE	4.209	130	128145	23.3409962 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	110769	24.1458433 ppb		99
44) DIBROMOMETHANE	4.451	93	69087	24.8478422 ppb		99
45) BROMODICHLOROMETHANE	4.528	83	166696	24.8787600 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	69739	44.4069722 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.898	75	225763	25.5708471 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.254	58	270516	127.2102051 ppb		99
51) TOLUENE	5.045	91	616009	22.8533402 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	45511	26.2834962 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.393	97	112151	23.9448250 ppb		99
55) TETRACHLOROETHENE	5.296	164	93109	22.9767349 ppb		96
56) 1,3-Dichloropropane	5.573	76	218261	23.2951654 ppb		98
57) 2-HEXANONE	5.788	58	256480	126.8498328 ppb		98
58) CHLORODIBROMOMETHANE	5.518	129	106209	25.7495614 ppb		95
59) 1,2-DIBROMOETHANE	5.682	107	103994	25.4481329 ppb		100
60) CHLOROBENZENE	6.023	112	348152	21.6943975 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	106890	25.3073496 ppb		97
62) ETHYLBENZENE	6.026	106	202205	22.8765983 ppb		98
63) M&P-XYLENE	6.119	106	495625	45.5798537 ppb		100
64) O-XYLENE	6.418	106	232365	22.4785452 ppb		99
65) STYRENE	6.457	104	391073	23.7159307 ppb		98
66) Bromoform	6.486	173	61844	27.9983687 ppb		100
67) Isopropylbenzene	6.634	105	631207	22.8516688 ppb		99
69) Bromobenzene	6.933	77	288446	22.3731369 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	157067	25.8397322 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.087	110	42042	25.5840665 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.110	53	41074	27.0097173 ppb	#	93
73) n-Propylbenzene	6.933	91	771440	22.4992776 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	614311	22.7331539 ppb		100
75) 2-Chlorotoluene	7.061	126	142521	23.3198393 ppb		95
76) 4-Chlorotoluene	7.180	91	443039	22.8326842 ppb		97
77) 1,3,5-Trimethylbenzene	7.068	105	526054	22.4894745 ppb		97
78) tert-Butylbenzene	7.309	119	453047	23.8714669 ppb		98
79) 1,2,4-Trimethylbenzene	7.364	105	519054	23.3352534 ppb		100
80) sec-Butylbenzene	7.444	105	737391	23.3454812 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	261336	24.6158151 ppb		98
82) p-Isopropyltoluene	7.547	119	588593	24.2243696 ppb		99
83) DICYCLOPENTADIENE	7.547	66	778285	24.3564320 ppb		99
85) 1,4-DICHLOROBENZENE	7.692	146	272302	22.6206873 ppb		96
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	589987	23.6090626 ppb		99
87) 1,2-DICHLOROBENZENE	8.016	146	248743	23.7082042 ppb		98
88) n-Butylbenzene	7.872	91	578438	23.5221350 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	24236	28.6689882 ppb		94
90) 1,2,4-Trichlorobenzene	9.193	180	124026	21.8323686 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	76610	22.3918526 ppb		99
92) Naphthalene	9.454	128	321436	22.5060889 ppb		98
93) 1,2,3-Trichlorobenzene	9.608	180	112358	22.3566329 ppb		99
94) 1-Methylnaphthalene	10.325	142	86757	No Calib		
95) 2-Methylnaphthalene	10.454	142	94837	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 38.D
Acq On : 29 Oct 2014 2:23 am
Operator : 644
Sample : MSD 1x WG750239 L729021-02
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 38 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:09:15 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

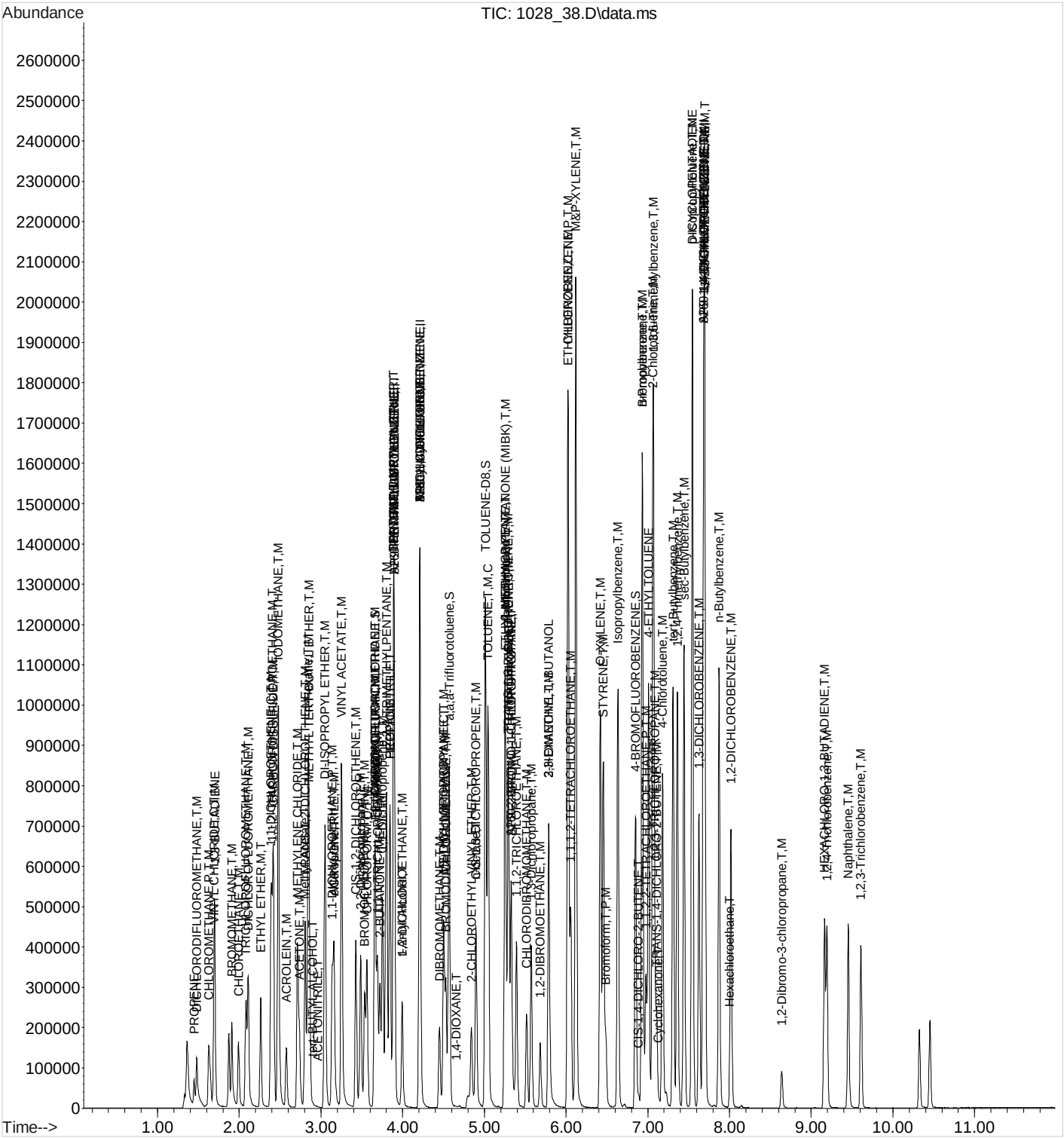
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.801	43	32283	9.4103778 ppb	#	96
101)	ACETONITRILE	2.959	41	832	1.2374318 ppb	#	35
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	2.894	59	1193	1.6986792 ppb	#	59
104)	chloroprene	3.158	53	245763	44.2526192 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	3.203	59	620	N.D.		
106)	PROPIONITRILE	3.843	54	1740	2.3519894 ppb	#	1
107)	Ethyl Acetate	3.666	43	7499	1.5625101 ppb	#	72
108)	METHACRYLONITRILE	3.894	67	982	0.4285018 ppb	#	1
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	3.750	59	621	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	3.994	59	665	1.5433584 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.888	73	10199	0.6450930 ppb	#	53
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.209	83	9231	0.7904853 ppb	#	47
117)	2-nitropropane	5.254	43	680563	653.6754032 ppb	#	40
118)	METHYL METHACRYLATE	4.502	41	76069	15.4472560 ppb	#	16
119)	1,4-DIOXANE	4.653	88	776	13.1665267 ppb	#	35
120)	n-octane	4.898	85	2998	0.5379127 ppb	#	22
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	83708	229.7562474 ppb	#	51
123)	ETHYL METHACRYLATE	5.258	69	4364	0.5888813 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.885	53	1653	1.0881728 ppb	#	29
125)	Cyclohexanone	7.129	55	1812	1.4324771 ppb	#	23
126)	PENTACHLOROETHANE	7.364	117	17737	No Calib	#	
127)	Hexachloroethane	8.000	117	1033	0.3323680 ppb	#	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 38.D
Acq On : 29 Oct 2014 2:23 am
Operator : 644
Sample : MSD 1x WG750239 L729021-02
Misc : soil SSURR14I25028/spk14J27647
ALS Vial : 38 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:09:15 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 56.D
Acq On : 29 Oct 2014 11:13 am
Operator : 644
Sample : CCV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 55 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:25:14 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	340637	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	613098	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	105799	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	253907	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	340637	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	613098	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	105799	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	253907	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	166221	38.8830931 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.21%		
46) a,a,a-Trifluorotoluene	4.566	146	318071	41.6649855 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.16%		
50) TOLUENE-D8	5.013	98	770627	39.2384421 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.10%		
68) 4-BROMOFLUOROBENZENE	6.849	95	266180	38.8094863 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.02%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7702014	No Calib	
3) PROPENE	1.447	41	40715	25.7049282 ppb	97
4) DICHLORODIFLUOROMETHANE	1.480	85	127151	24.4063229 ppb	93
5) CHLOROMETHANE	1.631	50	227023	27.3777010 ppb	98
6) VINYL CHLORIDE	1.689	62	224580	25.2270107 ppb	98
7) 1,3-BUTADIENE	1.701	39	158754	24.3493041 ppb	98
8) BROMOMETHANE	1.910	94	136778	33.8144449 ppb	99
9) CHLOROETHANE	1.991	66	45083	31.4510801 ppb	95
10) TRICHLOROFLUOROMETHANE	2.081	101	209627	27.7106195 ppb	100
11) DICHLOROFLUOROMETHANE	2.110	67	309422	27.1618208 ppb	99
12) ETHYL ETHER	2.261	59	139208	27.2036384 ppb	97
13) ACROLEIN	2.576	56	130882	146.8852503 ppb	99
14) 1,1-DICHLOROETHENE	2.390	61	249645	27.7618448 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	167455	28.6192633 ppb	100
16) ACETONE	2.737	43	195167	118.8364951 ppb	99
17) IODOMETHANE	2.476	142	1108268	149.6249563 ppb	100
18) CARBON DISULFIDE	2.418	76	563047	27.1696869 ppb	100
19) METHYLENE CHLORIDE	2.714	84	158096	23.0392040 ppb	97
20) ACRYLONITRILE	3.158	53	294453	144.7564522 ppb	100
21) n-Hexane	2.840	56	184346	24.1931241 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.804	96	158761	25.2405955 ppb	95
23) METHYL TERT-BUTYL ETHER	2.856	73	438357	24.6351851 ppb	100
24) 1,1-DICHLOROETHANE	3.136	63	315536	25.3039026 ppb	100
25) VINYL ACETATE	3.251	43	1339037	134.6028454 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	596540	25.6251157 ppb	99
27) 2,2-Dichloropropane	3.486	77	237354	26.2577486 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.428	96	166652	25.4444794 ppb	98
29) 2-BUTANONE (MEK)	3.721	72	91664	126.1190412 ppb	96
30) BROMOCHLOROMETHANE	3.534	130	82364	25.6731062 ppb	98
31) TETRAHYDROFURAN	3.666	42	51172	25.6874336 ppb	94
32) CHLOROFORM	3.563	83	264670	25.2507857 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.689	97	222872	26.0095116 ppb	99
35) CARBON TETRACHLORIDE	3.660	117	200007	26.3860262 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 56.D
Acq On : 29 Oct 2014 11:13 am
Operator : 644
Sample : CCV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 55 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:25:14 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	251963	25.5300920 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	855491	25.6589170 ppb		96
38) HEPTANE	3.843	43	353694	26.4057091 ppb		100
39) BENZENE	3.888	78	708905	25.0249041 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	183242	24.5591359 ppb		100
42) TRICHLOROETHENE	4.209	130	152985	25.7076393 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	129235	25.9896192 ppb		99
44) DIBROMOMETHANE	4.451	93	76725	25.4580344 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	190324	26.2055172 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	81569	47.9177272 ppb		97
48) CIS-1,3-DICHLOROPROPENE	4.898	75	257254	26.8812903 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	319032	138.4072590 ppb		97
51) TOLUENE	5.045	91	725228	24.8217739 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	50148	26.7187416 ppb		92
54) 1,1,2-TRICHLOROETHANE	5.393	97	125562	25.2125626 ppb		98
55) TETRACHLOROETHENE	5.296	164	114047	26.4685874 ppb		96
56) 1,3-Dichloropropane	5.573	76	247567	24.8503585 ppb		100
57) 2-HEXANONE	5.788	58	303629	141.2309533 ppb		99
58) CHLORODIBROMOMETHANE	5.518	129	115059	26.2348968 ppb		99
59) 1,2-DIBROMOETHANE	5.682	107	117208	26.9746080 ppb		99
60) CHLOROBENZENE	6.023	112	414516	24.2923900 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	123591	27.5198892 ppb		99
62) ETHYLBENZENE	6.026	106	244726	26.0393365 ppb		97
63) M&P-XYLENE	6.119	106	609450	52.7118248 ppb		100
64) O-XYLENE	6.422	106	278389	25.3279363 ppb		96
65) STYRENE	6.454	104	450121	25.6721276 ppb		100
66) Bromoform	6.486	173	70008	29.8080163 ppb		96
67) Isopropylbenzene	6.634	105	767846	26.1439068 ppb		99
69) Bromobenzene	6.933	77	336008	24.5110674 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	170131	26.3230835 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.084	110	45773	26.1966545 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	45822	28.3385306 ppb	#	95
73) n-Propylbenzene	6.933	91	955946	26.2210469 ppb		98
74) 4-ETHYLTOLUENE	7.010	105	752988	26.2065410 ppb		98
75) 2-Chlorotoluene	7.061	126	168499	25.9295074 ppb		98
76) 4-Chlorotoluene	7.180	91	538728	26.1116796 ppb		99
77) 1,3,5-Trimethylbenzene	7.068	105	644228	25.9023295 ppb		98
78) tert-Butylbenzene	7.309	119	540399	26.7793870 ppb		98
79) 1,2,4-Trimethylbenzene	7.364	105	631106	26.6840986 ppb		100
80) sec-Butylbenzene	7.444	105	882620	26.2802207 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	307016	27.1973279 ppb		100
82) p-Isopropyltoluene	7.547	119	695755	26.9304726 ppb		98
83) DICYCLOPENTADIENE	7.547	66	898592	26.4476935 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	307545	25.1797202 ppb		95
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	641260	25.2905175 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	274436	25.7795977 ppb		98
88) n-Butylbenzene	7.872	91	688004	27.5738971 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.637	157	23615	27.5312948 ppb		99
90) 1,2,4-Trichlorobenzene	9.193	180	159448	27.6626931 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	94235	27.1458886 ppb		99
92) Naphthalene	9.454	128	358786	24.4850527 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	137360	26.9370444 ppb		100
94) 1-Methylnaphthalene	10.325	142	114484	No Calib		
95) 2-Methylnaphthalene	10.454	142	103147	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 56.D
Acq On : 29 Oct 2014 11:13 am
Operator : 644
Sample : CCV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 55 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 29 11:25:14 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

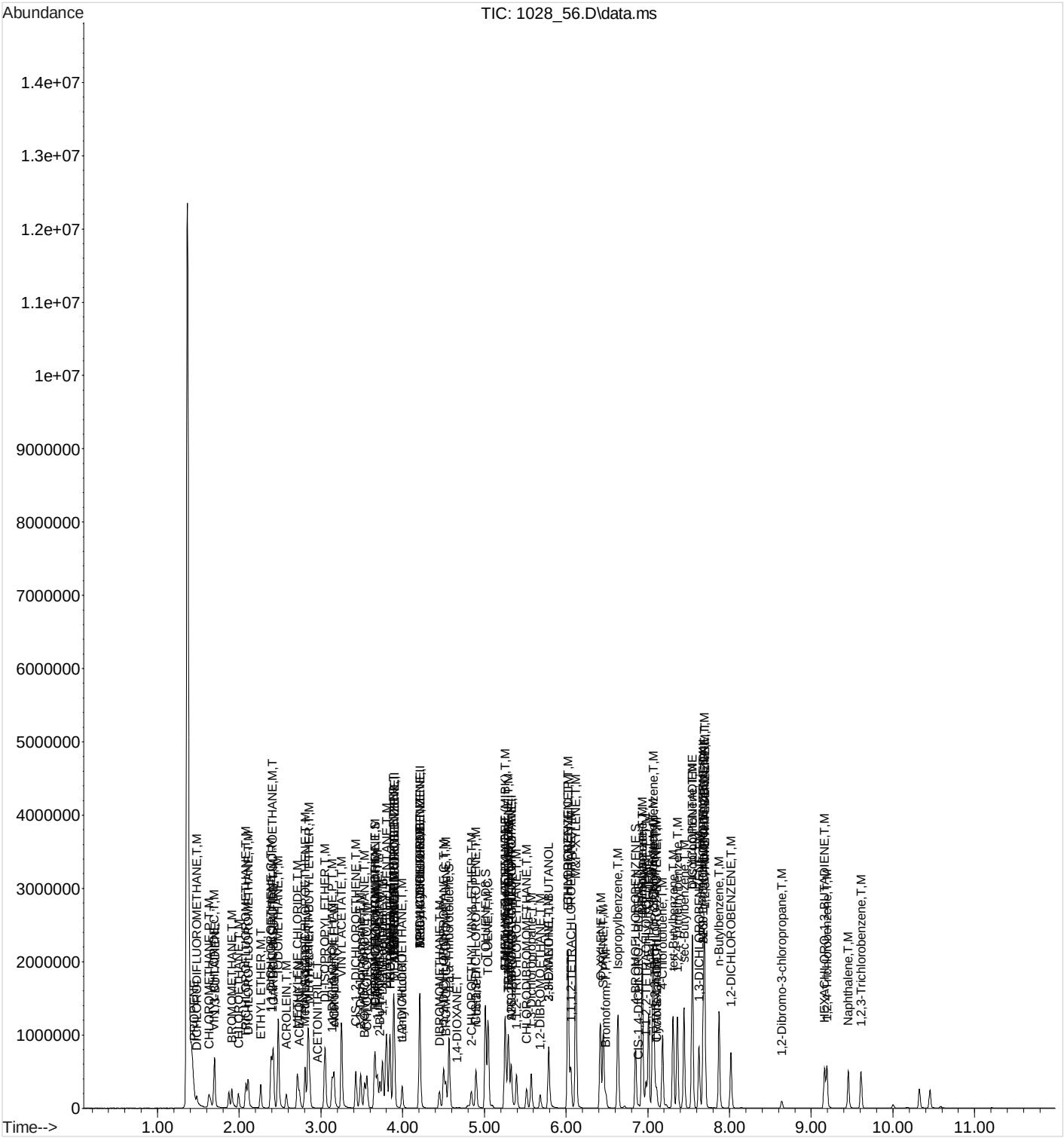
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	14774	3.9655311 ppb #	93
101)	ACETONITRILE	2.959	41	1097	1.5023622 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.158	53	294453	48.8212115 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.193	59	705	N.D.	
106)	PROPIONITRILE	3.843	54	2678	3.3332414 ppb #	1
107)	Ethyl Acetate	3.615	43	678	N.D.	
108)	METHACRYLONITRILE	3.901	67	1178	0.4733218 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.798	59	668	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.991	59	961	2.0537076 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11560	0.6732753 ppb #	56
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.209	83	10541	0.8327651 ppb #	49
117)	2-nitropropane	5.254	43	780598	691.6985565 ppb #	40
118)	METHYL METHACRYLATE	4.650	41	688	N.D.	
119)	1,4-DIOXANE	4.663	88	1235	19.3317907 ppb #	1
120)	n-octane	4.901	85	3196	0.5290327 ppb #	27
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	99669	251.9586770 ppb #	52
123)	ETHYL METHACRYLATE	5.254	69	5608	0.7117071 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2147	1.3292519 ppb #	26
125)	Cyclohexanone	7.106	55	805	0.5985158 ppb #	23
126)	PENTACHLOROETHANE	7.360	117	21749	No Calib #	
127)	Hexachloroethane	8.003	117	813	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 56.D
Acq On : 29 Oct 2014 11:13 am
Operator : 644
Sample : CCV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 55 Sample Multiplier: 1

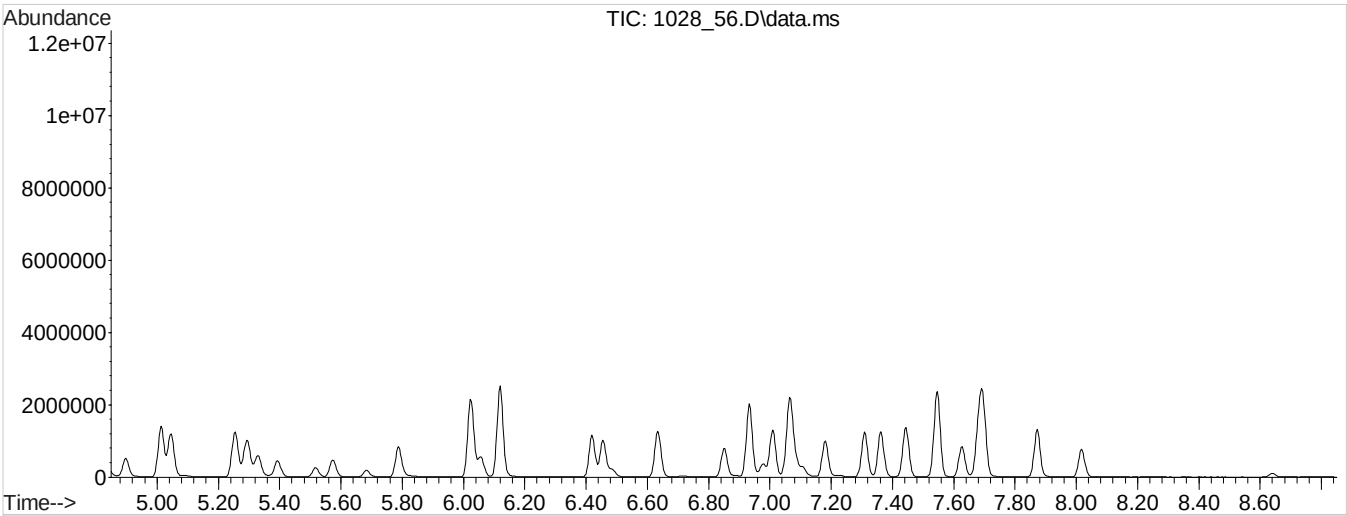
InstName : VOCMS21
Quant Time: Oct 29 11:25:14 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

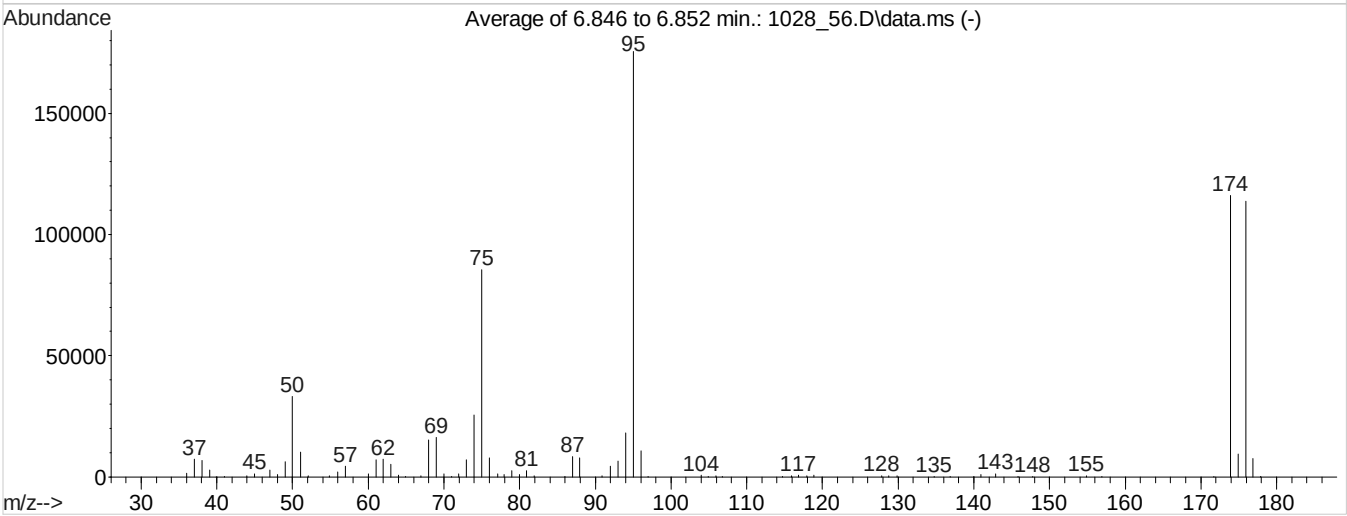


Data Path : C:\msdchem\1\data\102814\
Data File : 1028 56.D
Acq On : 29 Oct 2014 11:13 am
Operator : 644
Sample : CCV VMS 25 ppb 14J27646
Misc : soil SSURR14I25028
ALS Vial : 55 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I16N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Wed Sep 17 10:39:25 2014





AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	33285	PASS
75	95	30	60	48.6	85421	PASS
95	95	100	100	100.0	175595	PASS
96	95	5	9	6.1	10690	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	66.2	116205	PASS
175	174	5	9	8.1	9421	PASS
176	174	95	101	97.9	113765	PASS
177	176	5	9	6.6	7528	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 58.D
Acq On : 29 Oct 2014 12:04 pm
Operator : 644
Sample : L729026-01 1.08x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 55 Sample Multiplier: 1.08

InstName : VOCMS21
Quant Time: Nov 06 10:20:17 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

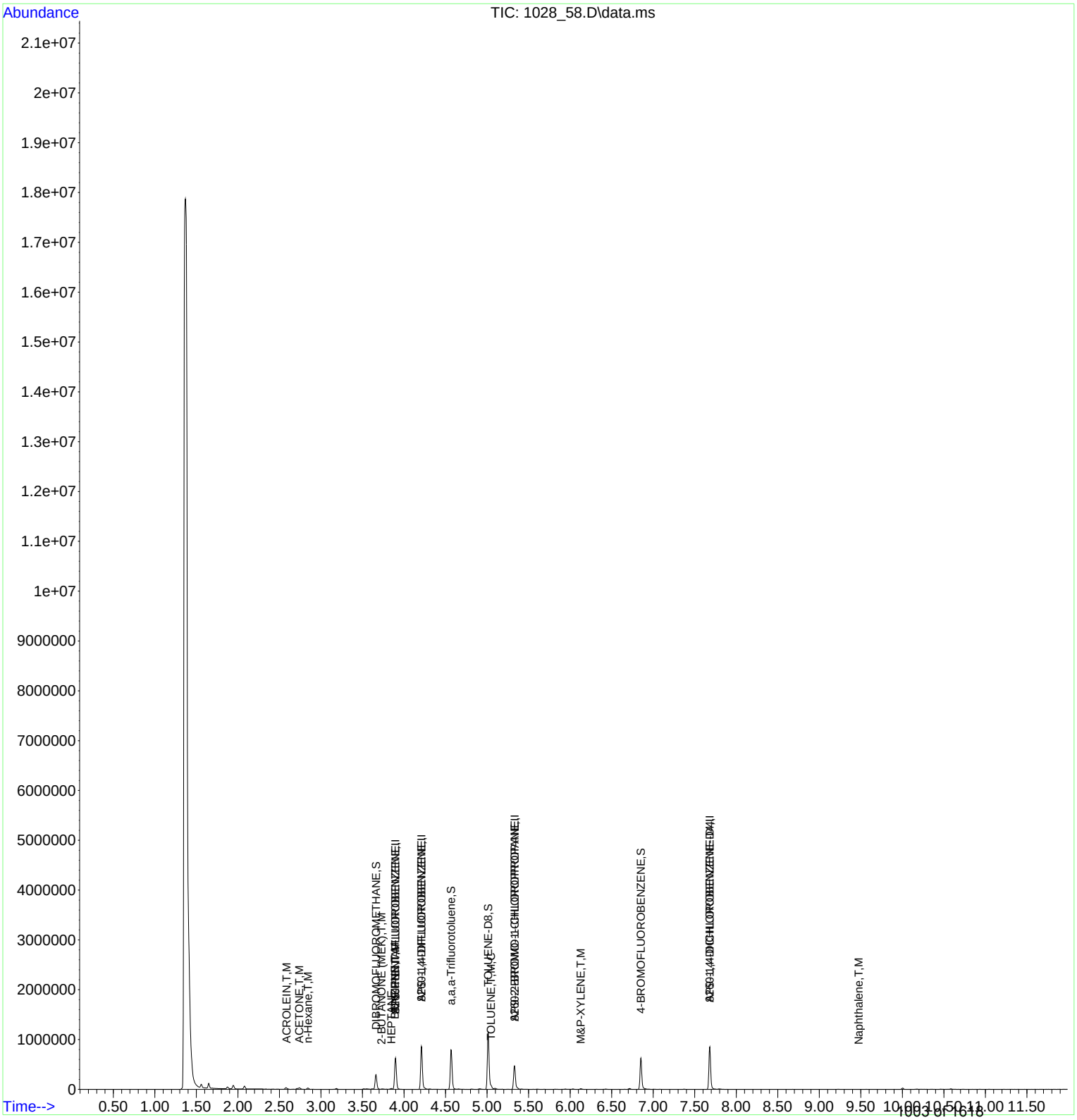
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	293269	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	536352	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	88041	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	199538	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	293269	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	536352	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	88041	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	199538	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	148062	40.2294585 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.57%		
46) a,a,a-Trifluorotoluene	4.566	146	268706	40.2350476 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.59%		
50) TOLUENE-D8	5.013	98	662687	38.5705633 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 96.43%		
68) 4-BROMOFLUOROBENZENE	6.852	95	215291	37.7211517 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 94.30%		
Target Compounds					Qvalue
13) ACROLEIN	2.586	56	1264	1.7794867 ppb #	1
16) ACETONE	2.740	43	36195	27.6465819 ppb	100
21) n-Hexane	2.843	56	5970	0.9828381 ppb	81
29) 2-BUTANONE (MEK)	3.730	72	797	1.3755918 ppb #	1
38) HEPTANE	3.846	43	5418	0.5074095 ppb #	82
39) BENZENE	3.891	78	39925	1.7679856 ppb #	84
51) TOLUENE	5.048	91	35735	1.5099264 ppb	98
62) ETHYLBENZENE	6.032	106	2249	0.3105701 ppb	88
63) M&P-XYLENE	6.129	106	4413	0.4953638 ppb	100
92) Naphthalene	9.473	128	658	3.0078158 ppb #	72

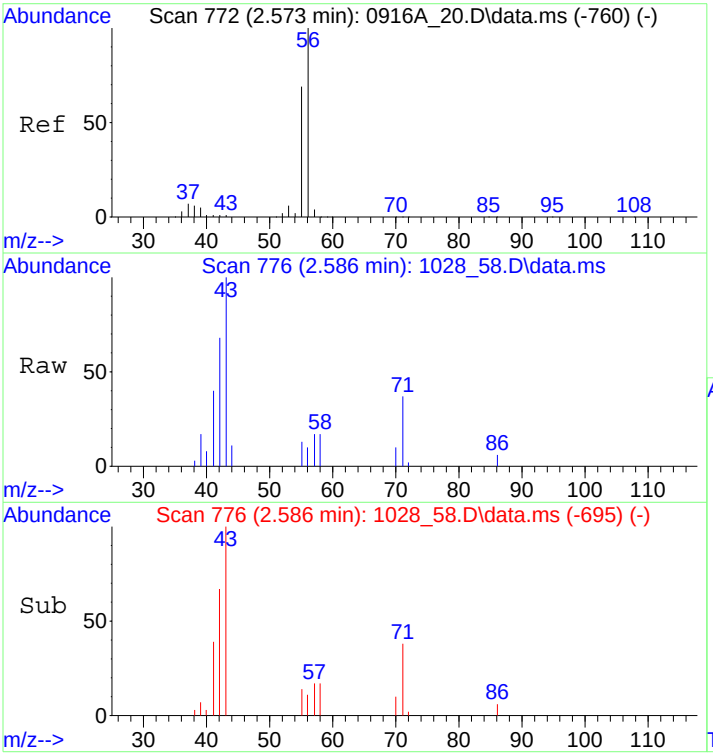
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 58.D
Acq On : 29 Oct 2014 12:04 pm
Operator : 644
Sample : L729026-01 1.08x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 55 Sample Multiplier: 1.08

InstName : VOCMS21
Quant Time: Nov 06 10:20:17 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

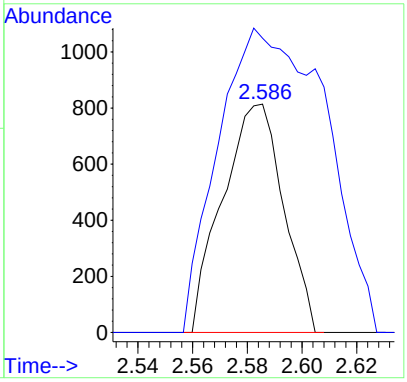


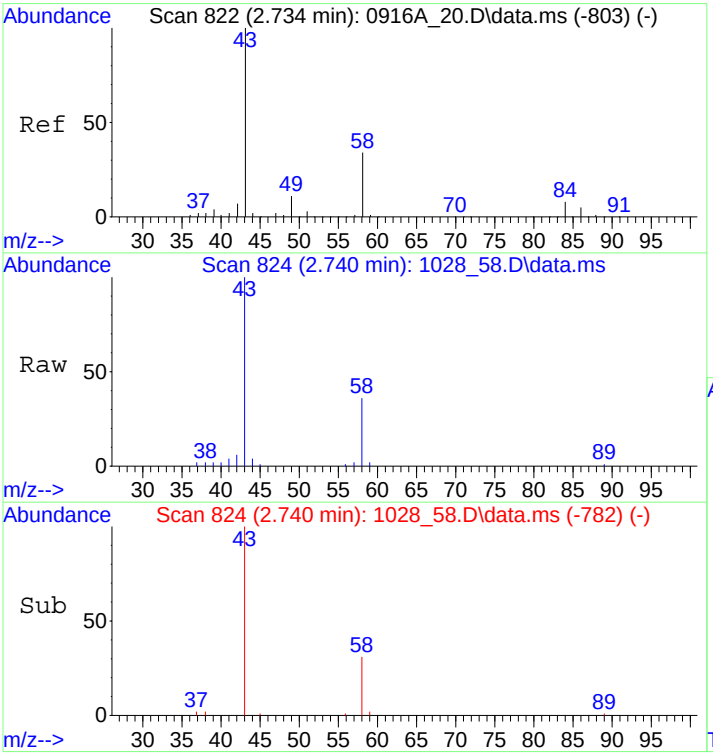


#13
ACROLEIN
Concen: 1.7794867 ppb
RT: 2.586 min Scan# 776
Delta R.T. 0.010 min
Lab File: 1028 58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion: 56 Resp: 1264

Ion	Ratio	Lower	Upper
56	100		
55	234.7	55.0	82.6#

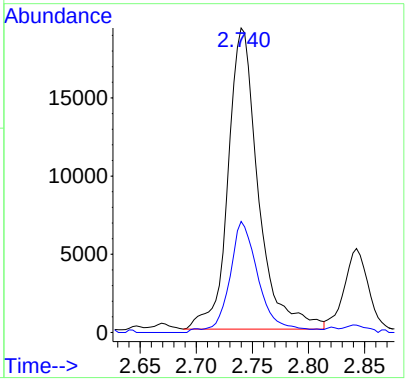


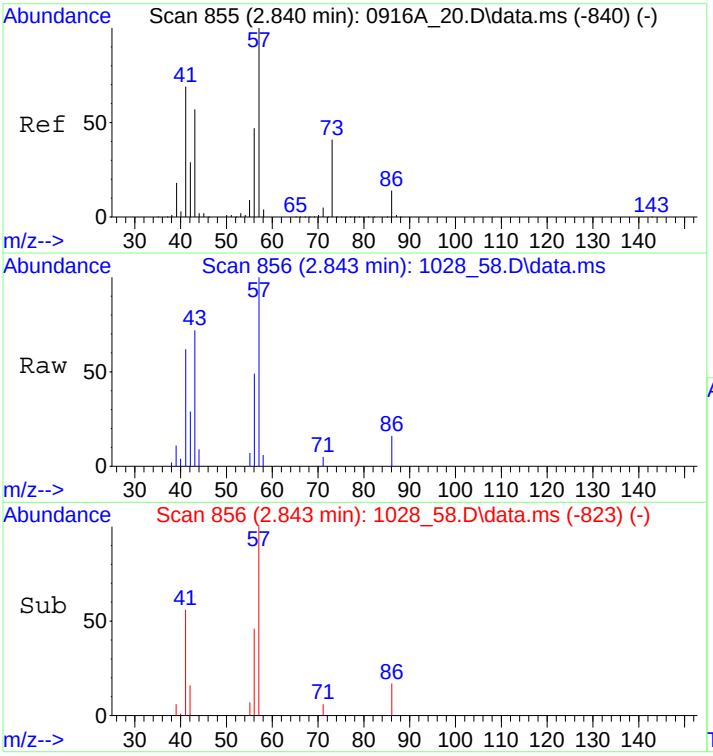


#16
ACETONE
Concen: 27.6465819 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1028_58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion: 43 Resp: 36195

Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.0	42.0

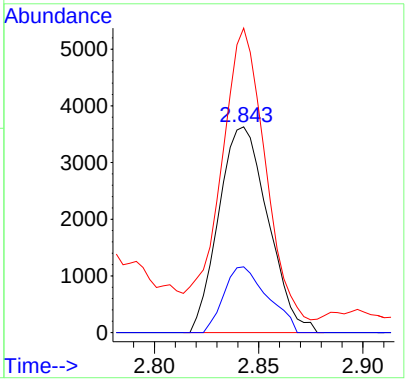


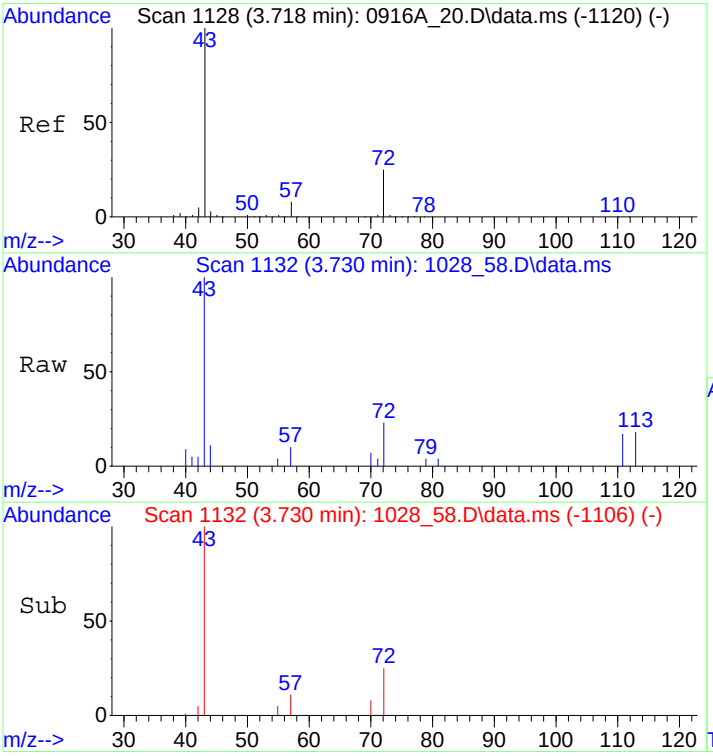


#21
n-Hexane
Concen: 0.9828381 ppb
RT: 2.843 min Scan# 856
Delta R.T. -0.000 min
Lab File: 1028 58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion: 56 Resp: 5970

Ion	Ratio	Lower	Upper
56	100		
86	28.4	23.4	35.0
43	126.0	123.8	185.8

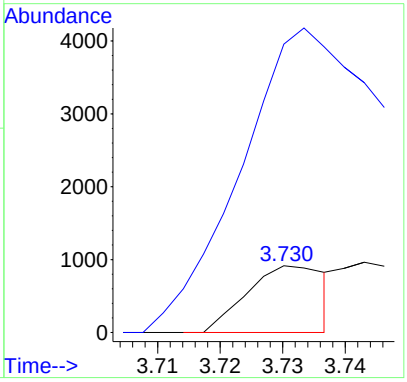


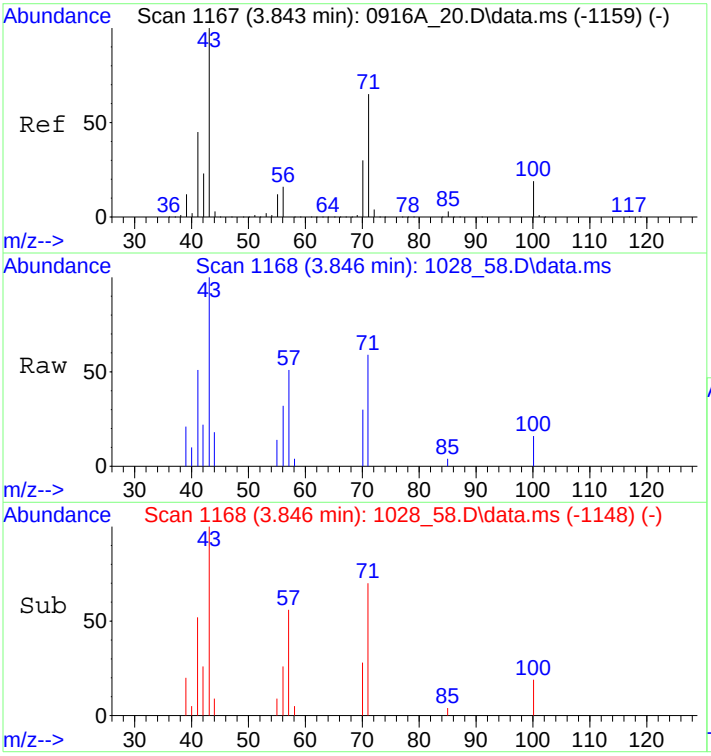


#29
2-BUTANONE (MEK)
Concen: 1.3755918 ppb
RT: 3.730 min Scan# 1132
Delta R.T. 0.010 min
Lab File: 1028_58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion: 72 Resp: 797

Ion	Ratio	Lower	Upper
72	100		
43	1074.2	294.5	441.7#

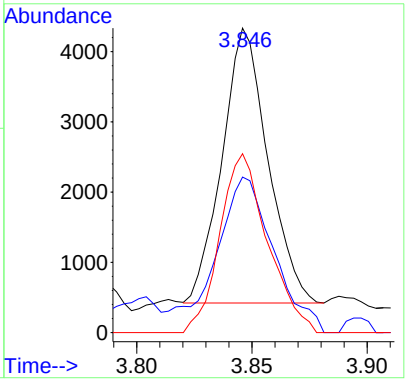


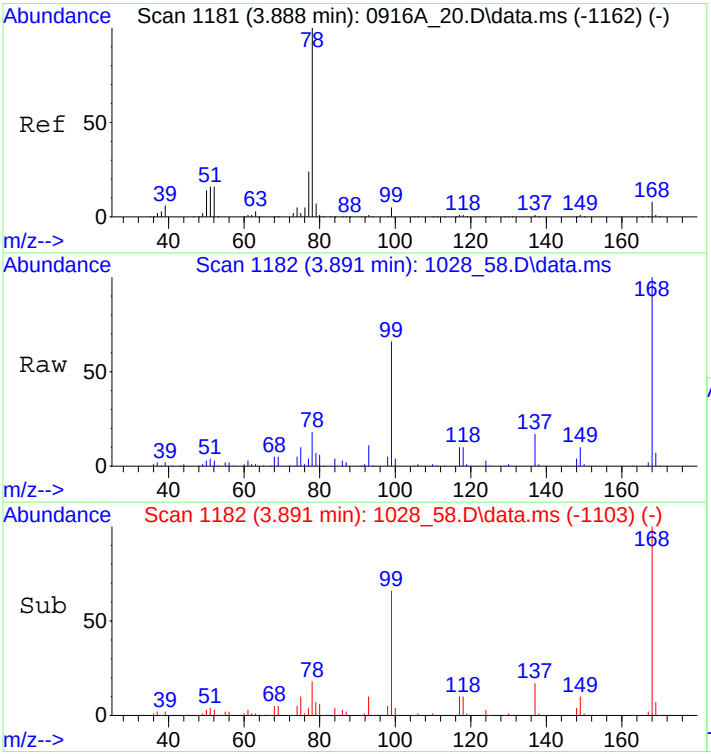


#38
HEPTANE
Concen: 0.5074095 ppb
RT: 3.846 min Scan# 1168
Delta R.T. 0.003 min
Lab File: 1028 58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion: 43 Resp: 5418

Ion	Ratio	Lower	Upper
43	100		
57	71.2	43.0	64.4#
71	67.4	46.5	69.7

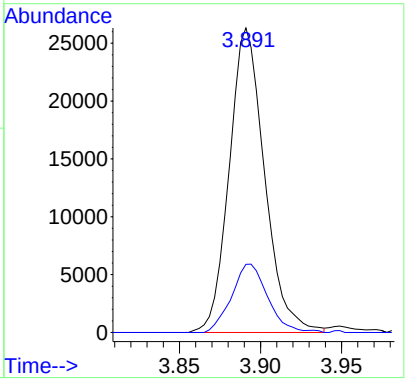


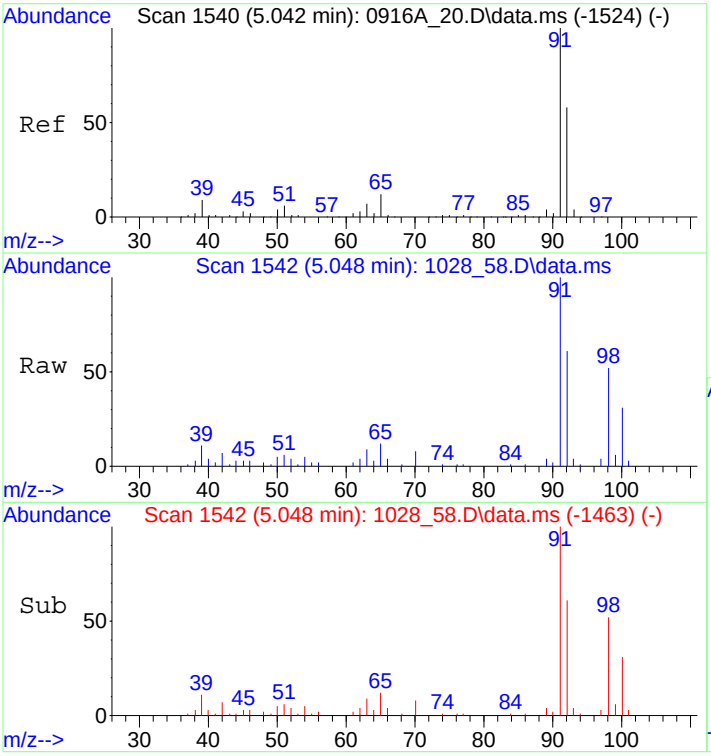


#39
BENZENE
Concen: 1.7679856 ppb
RT: 3.891 min Scan# 1182
Delta R.T. 0.003 min
Lab File: 1028_58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion: 78 Resp: 39925

Ion	Ratio	Lower	Upper
78	100		
51	22.9	13.0	19.4#

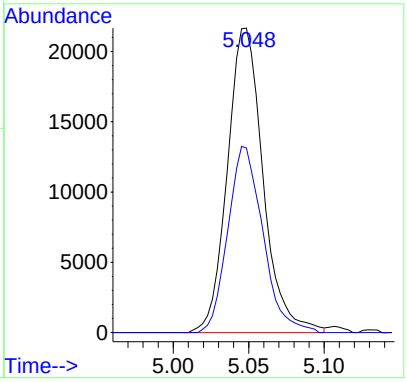


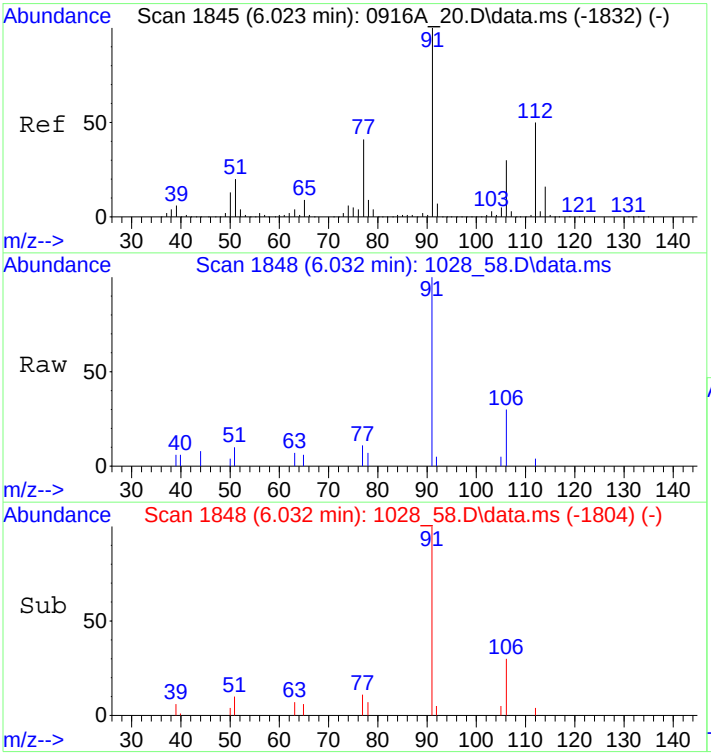


#51
TOLUENE
Concen: 1.5099264 ppb
RT: 5.048 min Scan# 1542
Delta R.T. 0.003 min
Lab File: 1028 58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion: 91 Resp: 35735

Ion	Ratio	Lower	Upper
91	100		
92	59.9	46.6	69.8

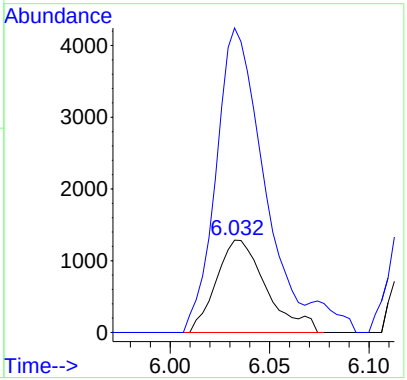


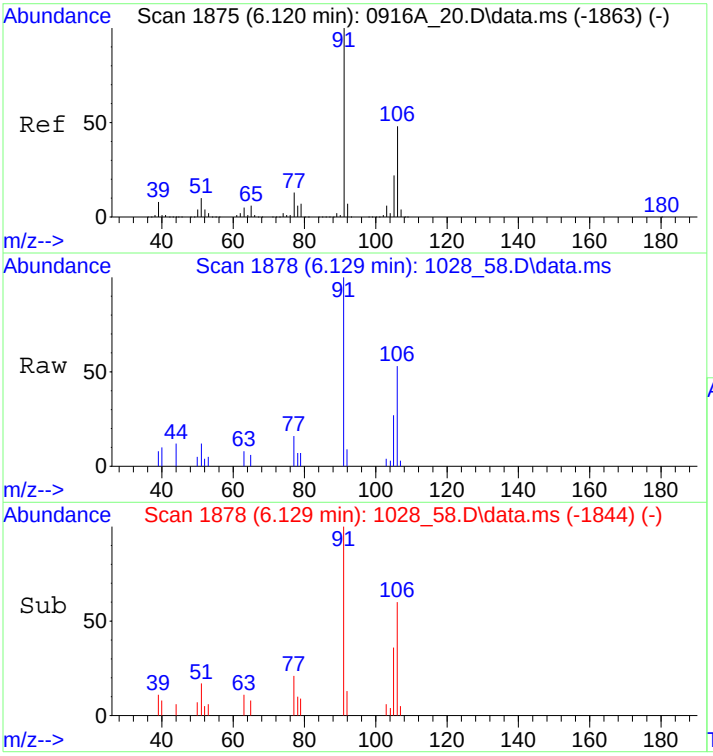


#62
ETHYLBENZENE
Concen: 0.3105701 ppb
RT: 6.032 min Scan# 1848
Delta R.T. 0.009 min
Lab File: 1028_58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion:106 Resp: 2249

Ion	Ratio	Lower	Upper
106	100		
91	310.7	268.2	402.2

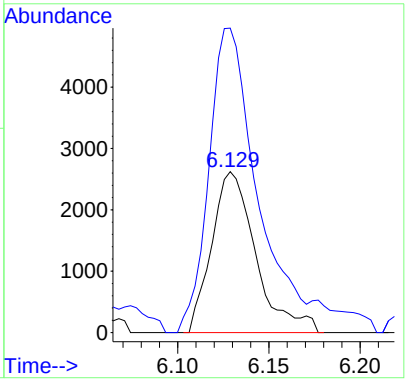


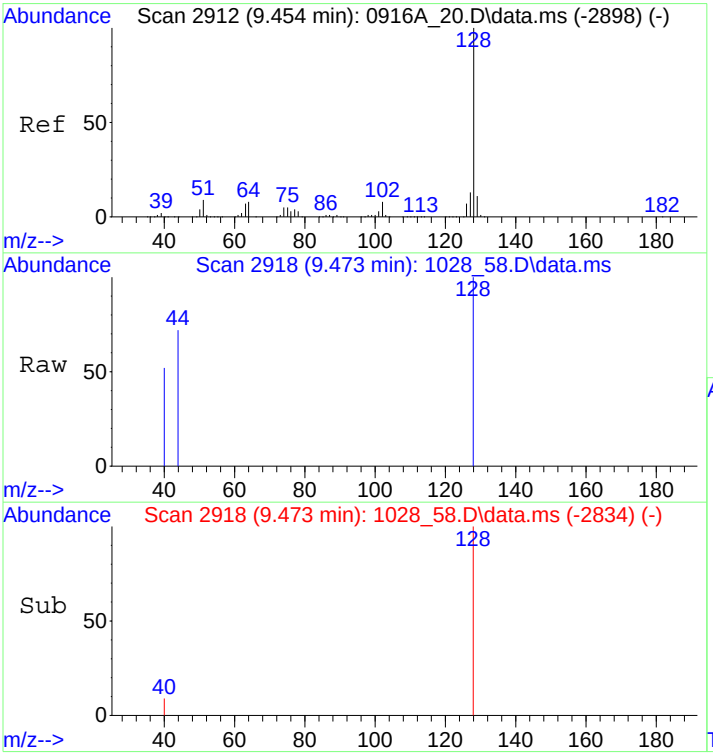


#63
M&P-XYLENE
Concen: 0.4953638 ppb
RT: 6.129 min Scan# 1878
Delta R.T. 0.009 min
Lab File: 1028 58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion:106 Resp: 4413

Ion	Ratio	Lower	Upper
106	100		
91	205.4	164.7	247.1

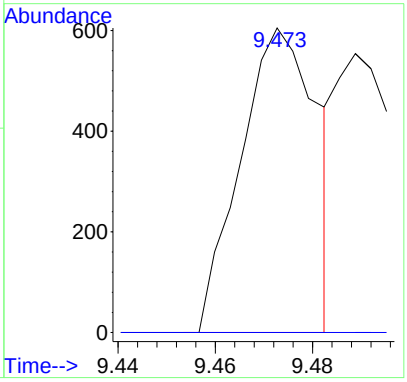




#92
Naphthalene
Concen: 3.0078158 ppb
RT: 9.473 min Scan# 2918
Delta R.T. 0.020 min
Lab File: 1028_58.D
Acq: 29 Oct 2014 12:04 pm

Tgt Ion:128 Resp: 658

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 59.D
Acq On : 29 Oct 2014 12:26 pm
Operator : 644
Sample : L729026-02 1x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 56 Sample Multiplier: 0.92

InstName : VOCMS21
Quant Time: Nov 06 10:22:33 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

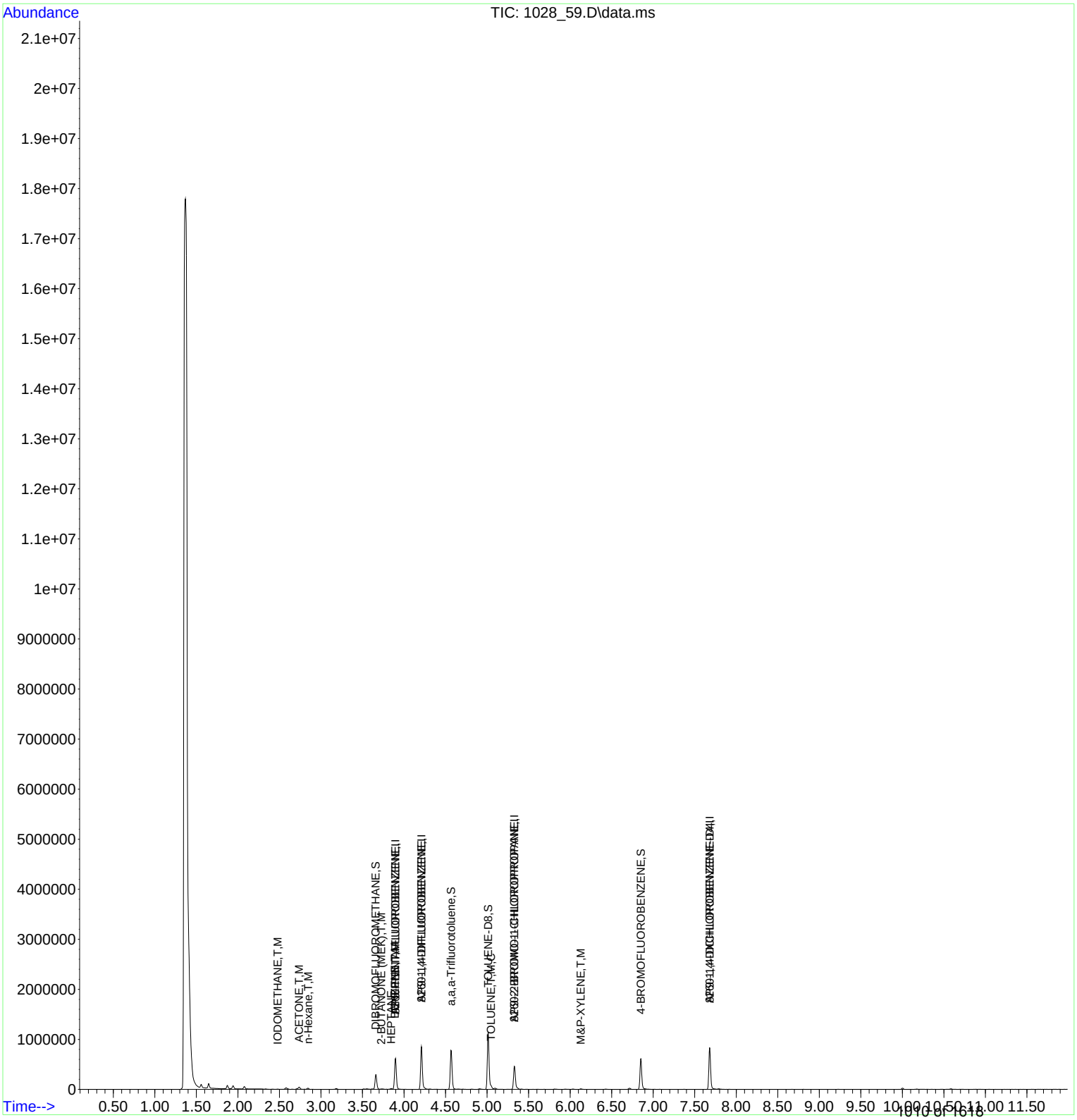
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	288662	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	525782	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	88585	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	194627	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	288662	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	525782	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	88585	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	194627	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	147469	40.7078206 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.77%		
46) a,a,a-Trifluorotoluene	4.566	146	263073	40.1834873 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.46%		
50) TOLUENE-D8	5.013	98	645442	38.3220685 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 95.81%		
68) 4-BROMOFLUOROBENZENE	6.852	95	211147	36.7678946 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 91.92%		
Target Compounds					Qvalue
16) ACETONE	2.737	43	44211	29.2256256 ppb	98
21) n-Hexane	2.846	56	4687	0.6677951 ppb	97
29) 2-BUTANONE (MEK)	3.727	72	2655	3.9658512 ppb #	66
38) HEPTANE	3.846	43	5617	0.4552653 ppb	92
39) BENZENE	3.891	78	36683	1.4058509 ppb #	86
51) TOLUENE	5.049	91	34486	1.2662314 ppb	98
63) M&P-XYLENE	6.129	106	3603	0.3424076 ppb	83

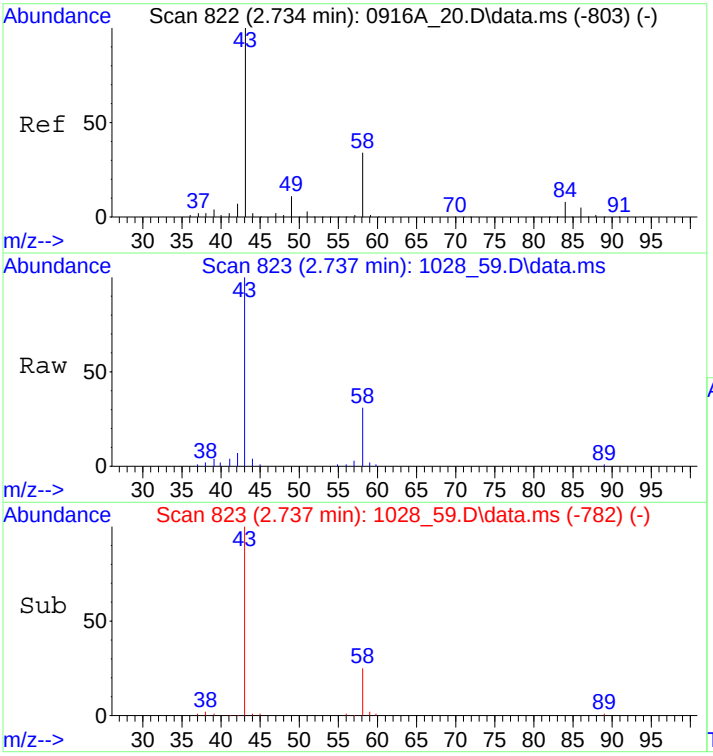
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 59.D
Acq On : 29 Oct 2014 12:26 pm
Operator : 644
Sample : L729026-02 1x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 56 Sample Multiplier: 0.92

InstName : VOCMS21
Quant Time: Nov 06 10:22:33 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

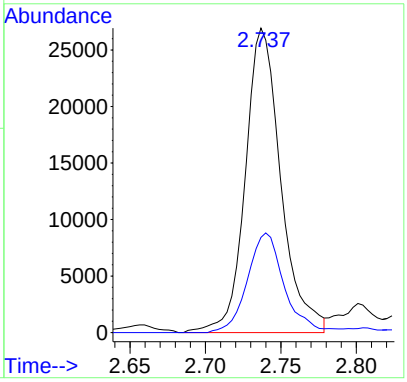


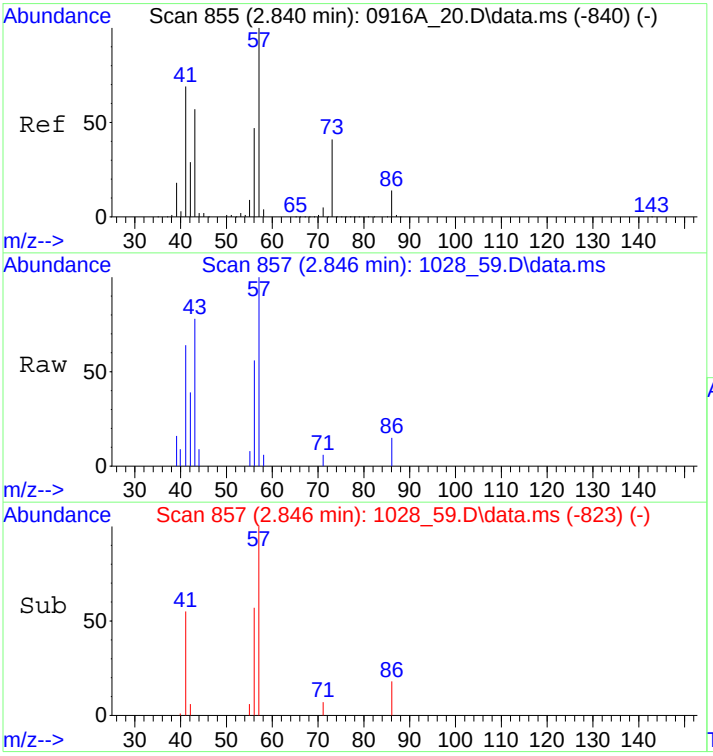


#16
ACETONE
Concen: 29.2256256 ppb
RT: 2.737 min Scan# 823
Delta R.T. 0.001 min
Lab File: 1028 59.D
Acq: 29 Oct 2014 12:26 pm

Tgt Ion: 43 Resp: 44211

Ion	Ratio	Lower	Upper
43	100		
58	33.8	28.0	42.0

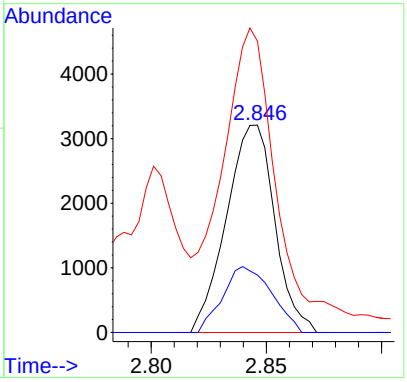


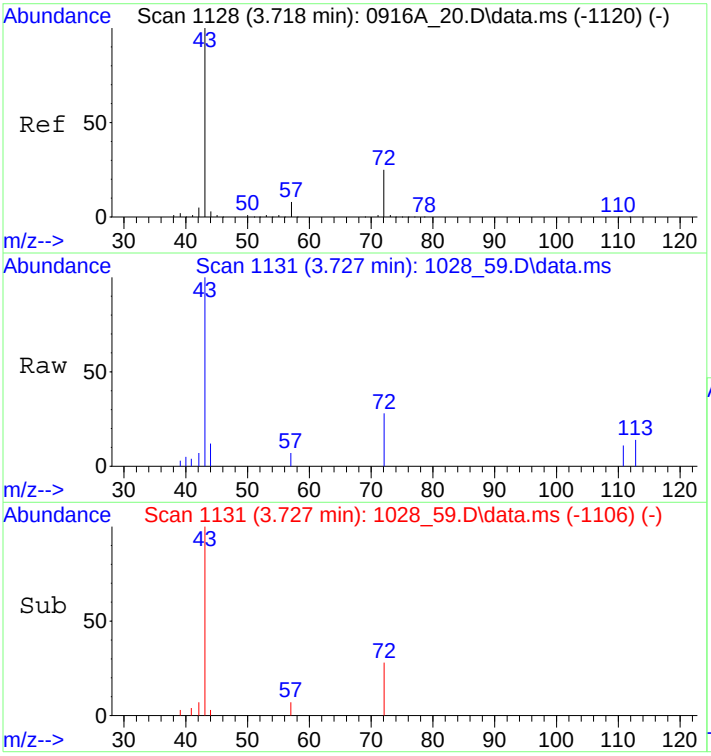


#21
n-Hexane
Concen: 0.6677951 ppb
RT: 2.846 min Scan# 857
Delta R.T. 0.003 min
Lab File: 1028_59.D
Acq: 29 Oct 2014 12:26 pm

Tgt Ion: 56 Resp: 4687

Ion	Ratio	Lower	Upper
56	100		
86	32.0	23.4	35.0
43	151.8	123.8	185.8

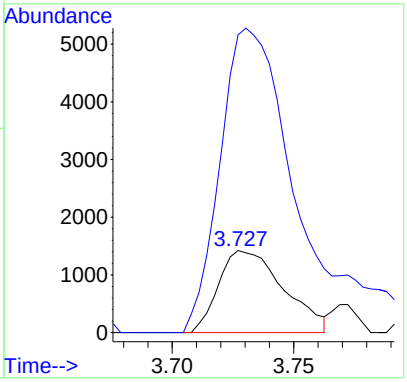


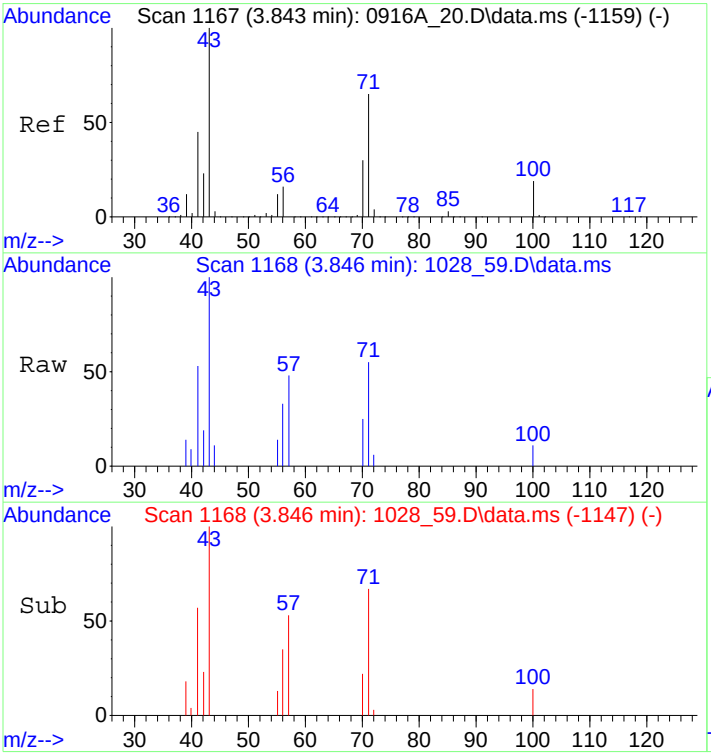


#29
2-BUTANONE (MEK)
Concen: 3.9658512 ppb
RT: 3.727 min Scan# 1131
Delta R.T. 0.007 min
Lab File: 1028 59.D
Acq: 29 Oct 2014 12:26 pm

Tgt Ion: 72 Resp: 2655

Ion	Ratio	Lower	Upper
72	100		
43	444.6	294.5	441.7#

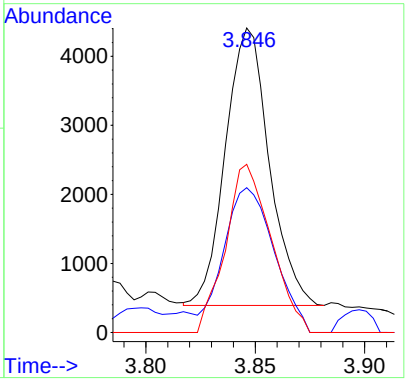


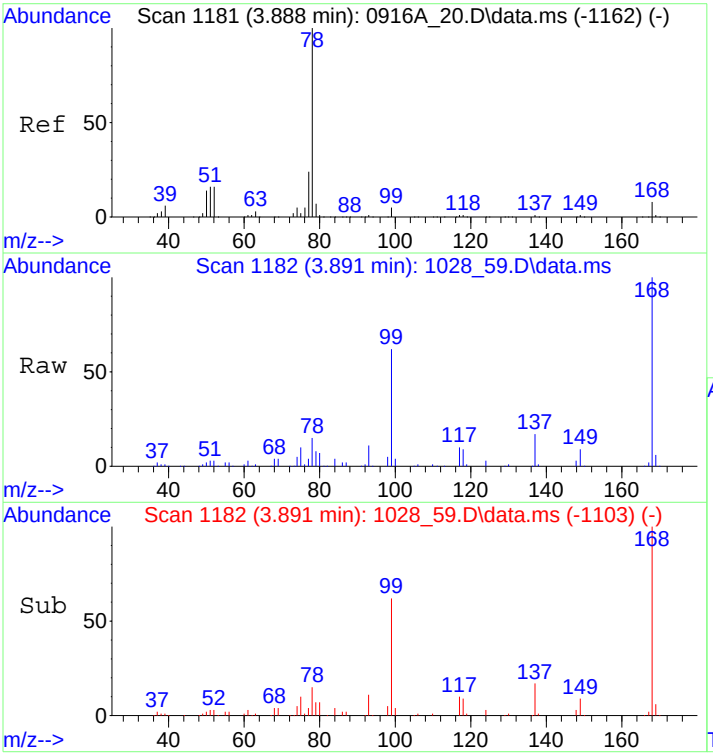


#38
HEPTANE
Concen: 0.4552653 ppb
RT: 3.846 min Scan# 1168
Delta R.T. 0.003 min
Lab File: 1028_59.D
Acq: 29 Oct 2014 12:26 pm

Tgt Ion: 43 Resp: 5617

Ion	Ratio	Lower	Upper
43	100		
57	60.1	43.0	64.4
71	62.7	46.5	69.7

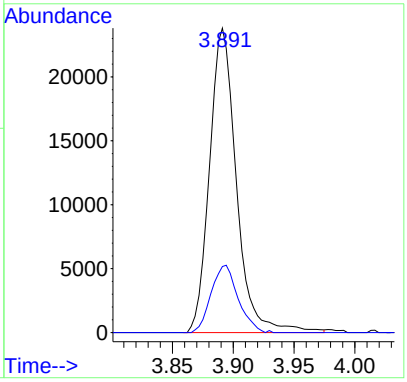


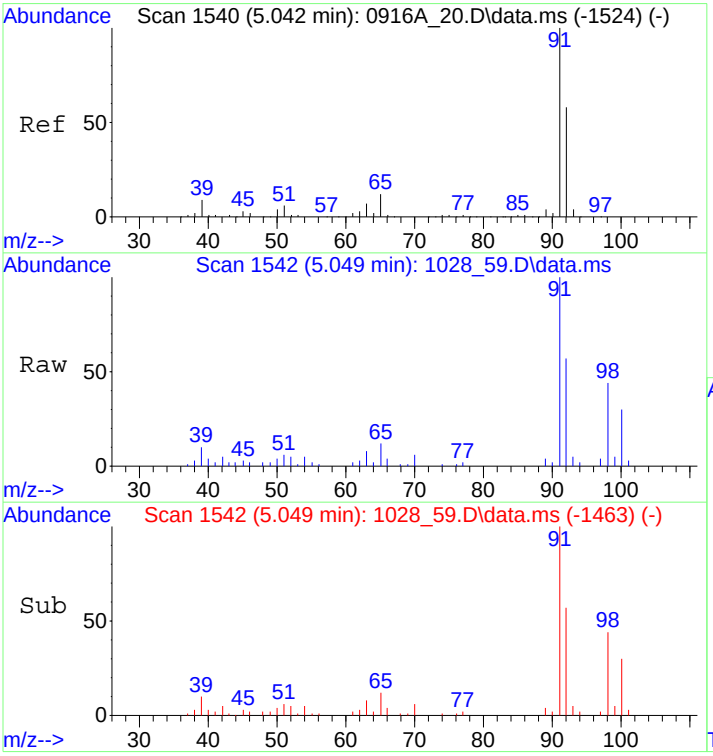


#39
BENZENE
Concen: 1.4058509 ppb
RT: 3.891 min Scan# 1182
Delta R.T. 0.003 min
Lab File: 1028 59.D
Acq: 29 Oct 2014 12:26 pm

Tgt Ion: 78 Resp: 36683

Ion	Ratio	Lower	Upper
78	100		
51	22.2	13.0	19.4#

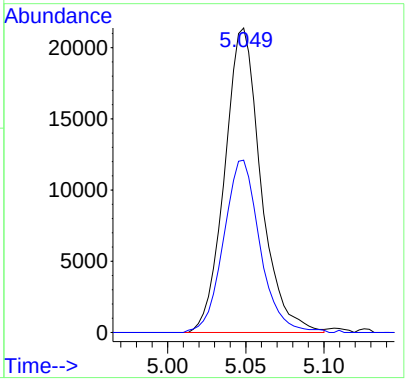


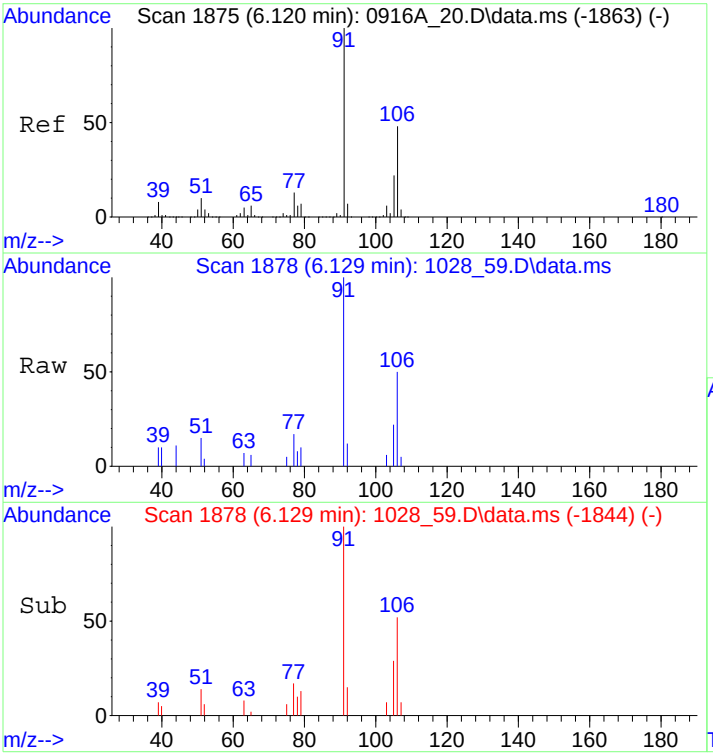


#51
TOLUENE
Concen: 1.2662314 ppb
RT: 5.049 min Scan# 1542
Delta R.T. 0.003 min
Lab File: 1028_59.D
Acq: 29 Oct 2014 12:26 pm

Tgt Ion: 91 Resp: 34486

Ion	Ratio	Lower	Upper
91	100		
92	56.8	46.6	69.8

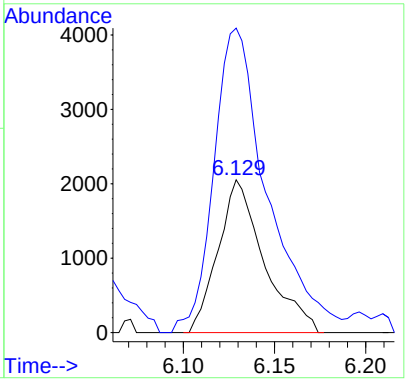




#63
M&P-XYLENE
Concen: 0.3424076 ppb
RT: 6.129 min Scan# 1878
Delta R.T. 0.009 min
Lab File: 1028 59.D
Acq: 29 Oct 2014 12:26 pm

Tgt Ion:106 Resp: 3603

Ion	Ratio	Lower	Upper
106	100		
91	231.5	164.7	247.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 60.D
Acq On : 29 Oct 2014 12:48 pm
Operator : 644
Sample : L729026-03 1x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 57 Sample Multiplier: 0.82

InstName : VOCMS21
Quant Time: Nov 06 10:23:55 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

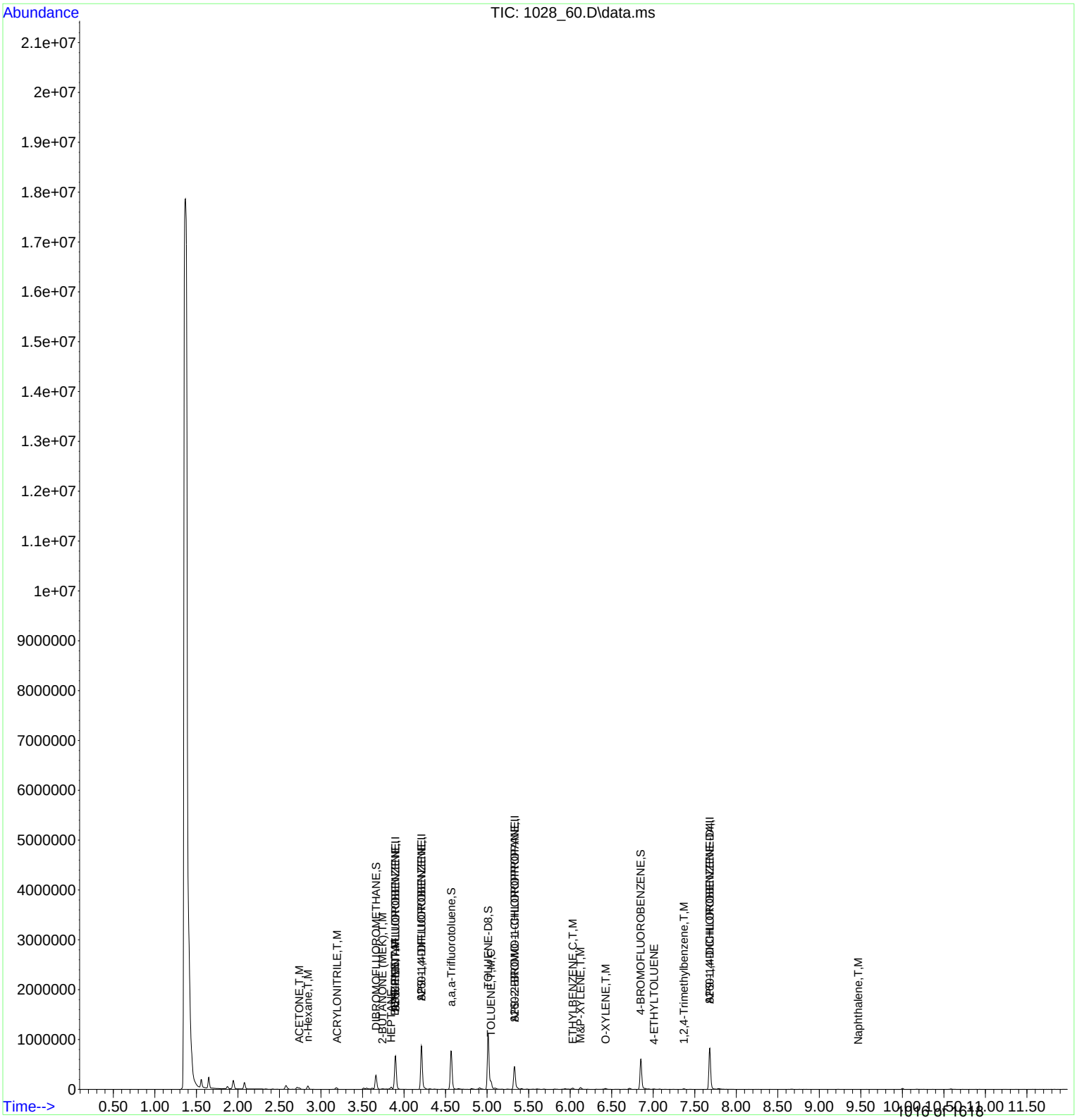
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	290575	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	518123	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	83501	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	193410	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	290575	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	518123	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	83501	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	193410	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	144202	39.5439247 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.86%		
46) a,a,a-Trifluorotoluene	4.569	146	264708	41.0309201 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.58%		
50) TOLUENE-D8	5.013	98	638784	38.4874017 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 96.22%		
68) 4-BROMOFLUOROBENZENE	6.849	95	209655	38.7308995 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.83%		
Target Compounds					Qvalue
16) ACETONE	2.740	43	31004	18.1471572 ppb	98
21) n-Hexane	2.843	56	13190	1.6639890 ppb	83
29) 2-BUTANONE (MEK)	3.740	72	1725	2.2814890 ppb #	23
38) HEPTANE	3.846	43	14174	1.0172085 ppb	98
39) BENZENE	3.891	78	92035	3.1230923 ppb	94
51) TOLUENE	5.048	91	88212	2.9295223 ppb	100
62) ETHYLBENZENE	6.032	106	5853	0.6470414 ppb	93
63) M&P-XYLENE	6.125	106	11696	1.0510202 ppb	88
64) O-XYLENE	6.428	106	4356	0.4117554 ppb	96
92) Naphthalene	9.469	128	1613	2.3473544 ppb #	72

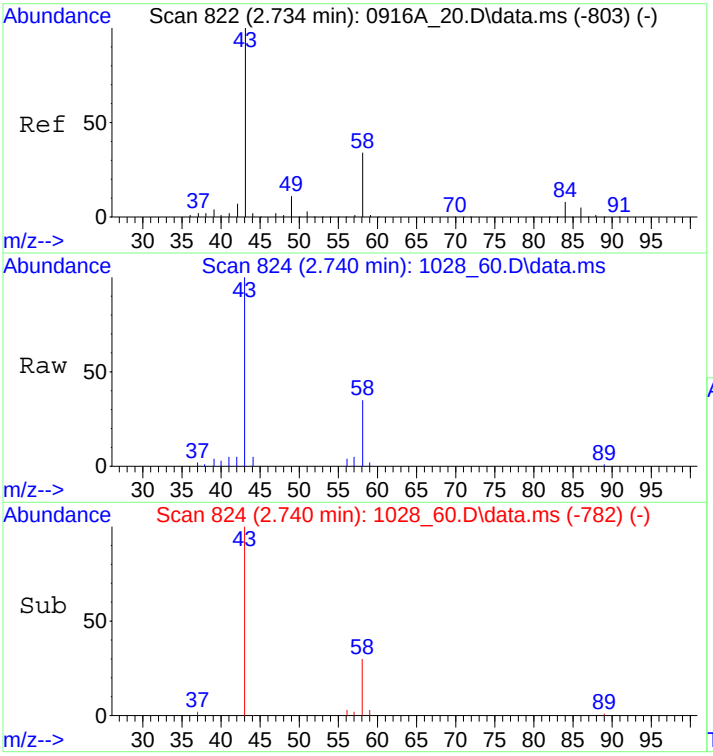
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 60.D
Acq On : 29 Oct 2014 12:48 pm
Operator : 644
Sample : L729026-03 1x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 57 Sample Multiplier: 0.82

InstName : VOCMS21
Quant Time: Nov 06 10:23:55 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

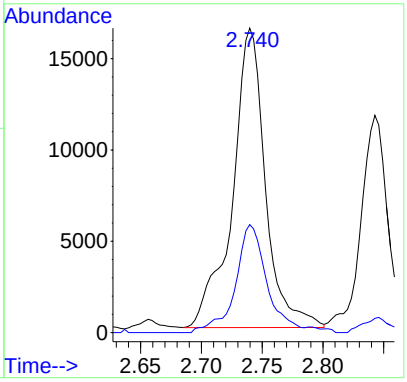


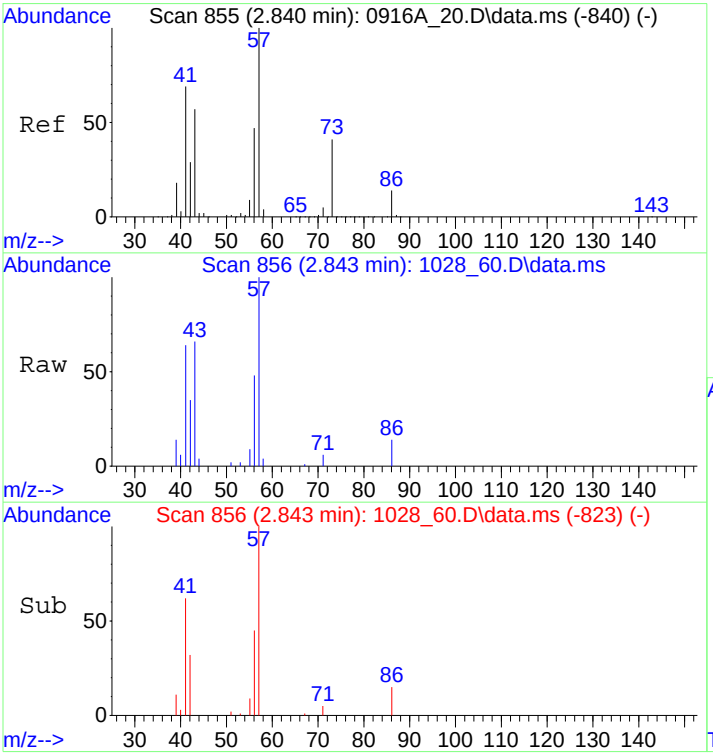


#16
ACETONE
Concen: 18.1471572 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1028 60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion: 43 Resp: 31004

Ion	Ratio	Lower	Upper
43	100		
58	34.1	28.0	42.0

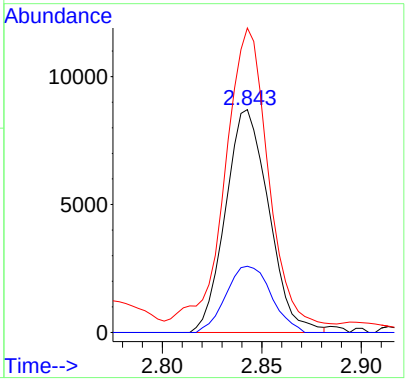


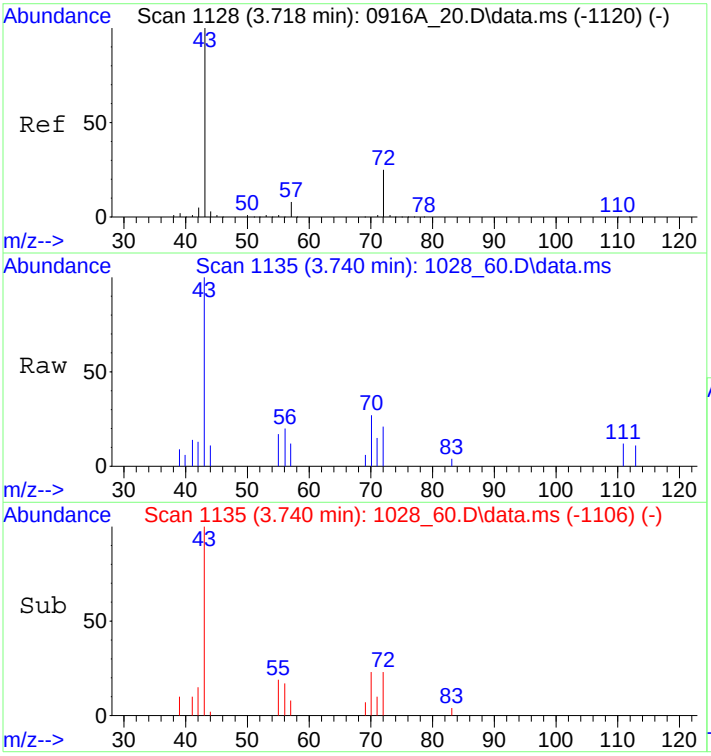


#21
n-Hexane
Concen: 1.6639890 ppb
RT: 2.843 min Scan# 856
Delta R.T. -0.000 min
Lab File: 1028_60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion: 56 Resp: 13190

Ion	Ratio	Lower	Upper
56	100		
86	31.1	23.4	35.0
43	129.6	123.8	185.8

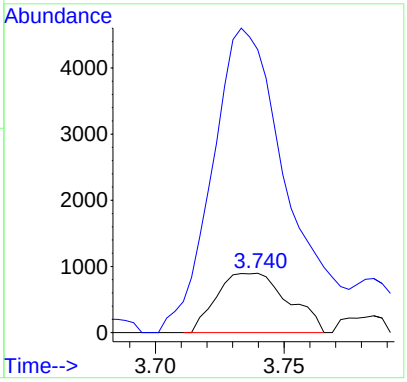


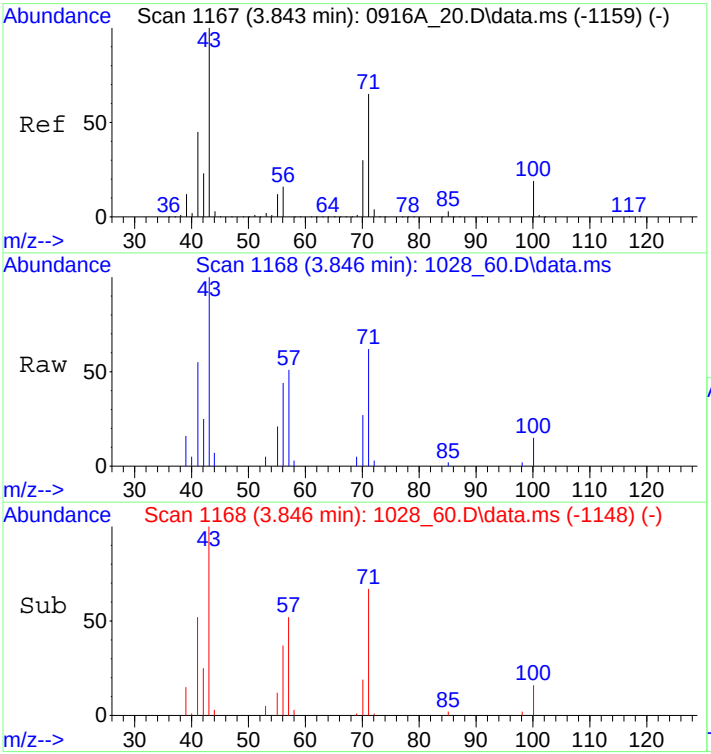


#29
2-BUTANONE (MEK)
Concen: 2.2814890 ppb
RT: 3.740 min Scan# 1135
Delta R.T. 0.020 min
Lab File: 1028 60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion: 72 Resp: 1725

Ion	Ratio	Lower	Upper
72	100		
43	540.9	294.5	441.7#

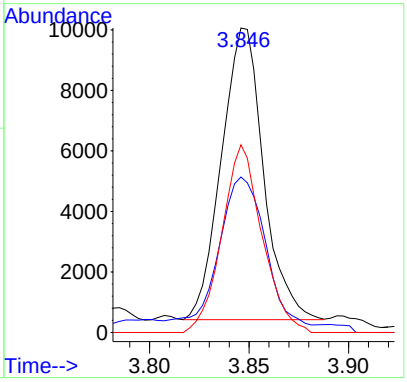


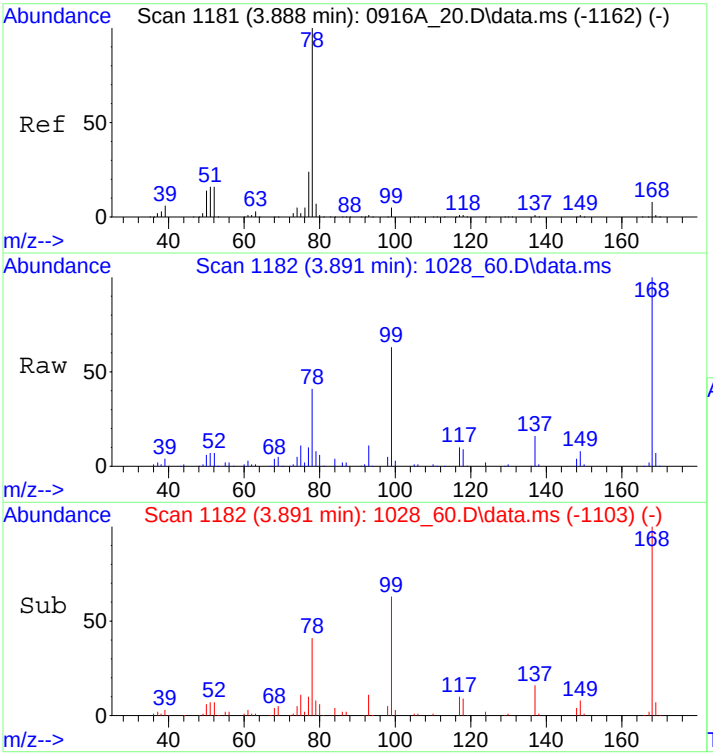


#38
HEPTANE
Concen: 1.0172085 ppb
RT: 3.846 min Scan# 1168
Delta R.T. 0.003 min
Lab File: 1028_60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion: 43 Resp: 14174

Ion	Ratio	Lower	Upper
43	100		
57	53.6	43.0	64.4
71	61.2	46.5	69.7

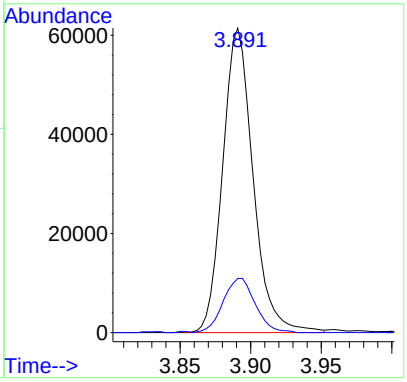


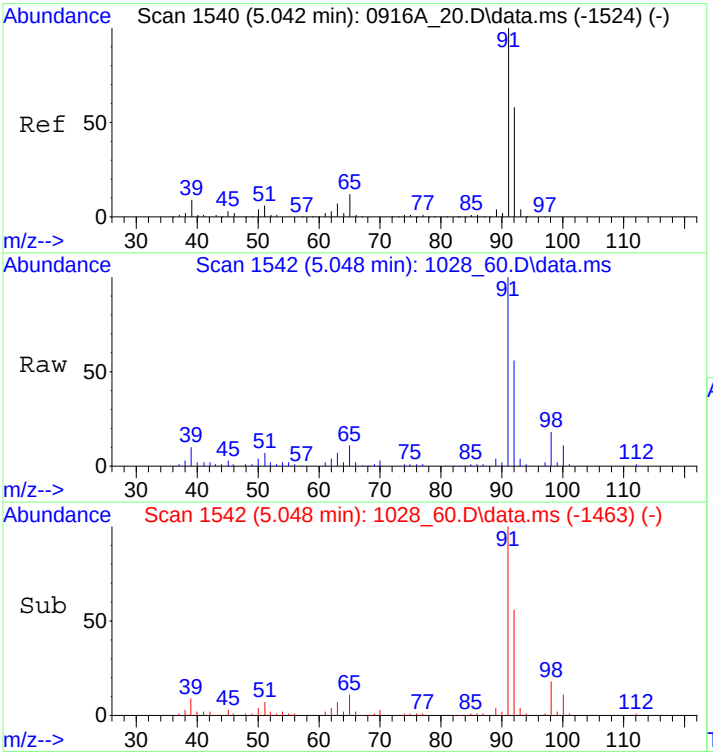


#39
BENZENE
Concen: 3.1230923 ppb
RT: 3.891 min Scan# 1182
Delta R.T. 0.003 min
Lab File: 1028 60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion: 78 Resp: 92035

Ion	Ratio	Lower	Upper
78	100		
51	18.8	13.0	19.4

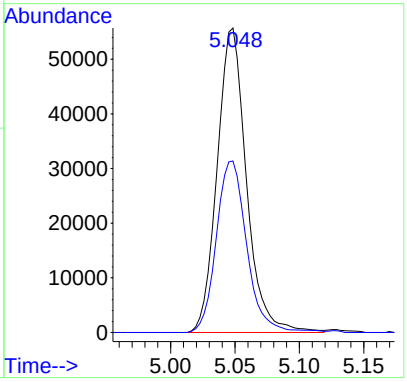


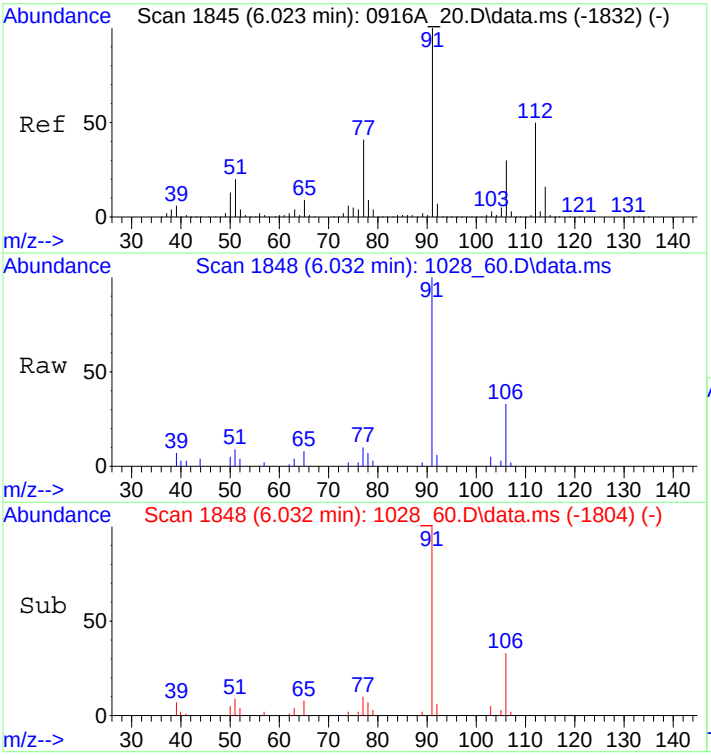


#51
TOLUENE
Concen: 2.9295223 ppb
RT: 5.048 min Scan# 1542
Delta R.T. 0.003 min
Lab File: 1028_60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion: 91 Resp: 88212

Ion	Ratio	Lower	Upper
91	100		
92	58.5	46.6	69.8

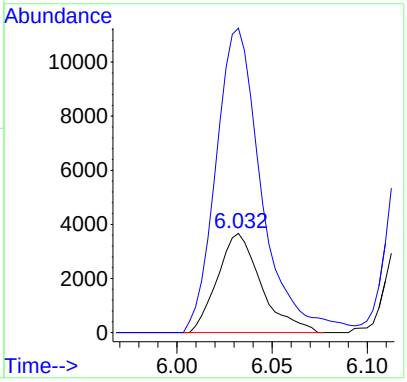


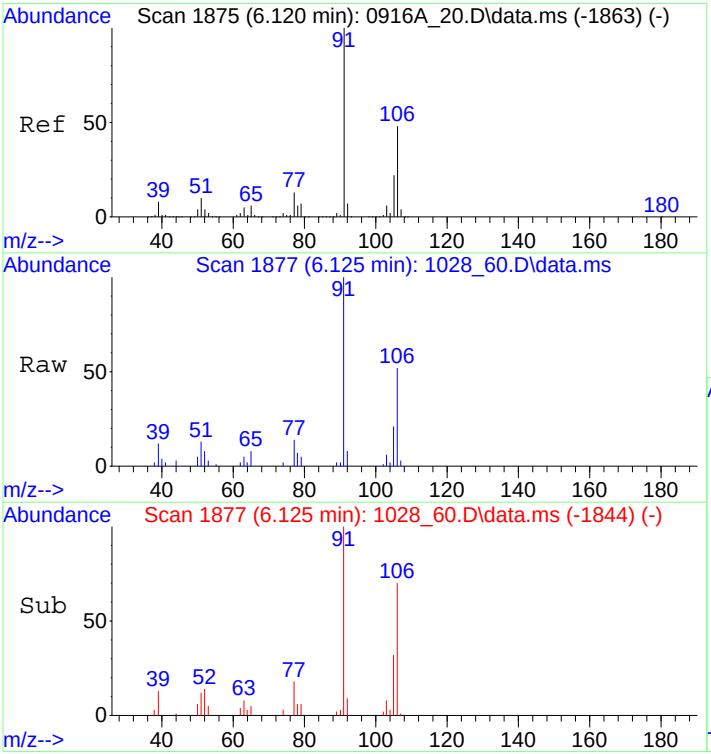


#62
ETHYLBENZENE
Concen: 0.6470414 ppb
RT: 6.032 min Scan# 1848
Delta R.T. 0.009 min
Lab File: 1028 60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion:106 Resp: 5853

Ion	Ratio	Lower	Upper
106	100		
91	320.9	268.2	402.2

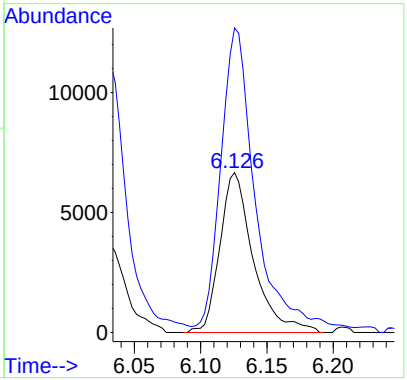


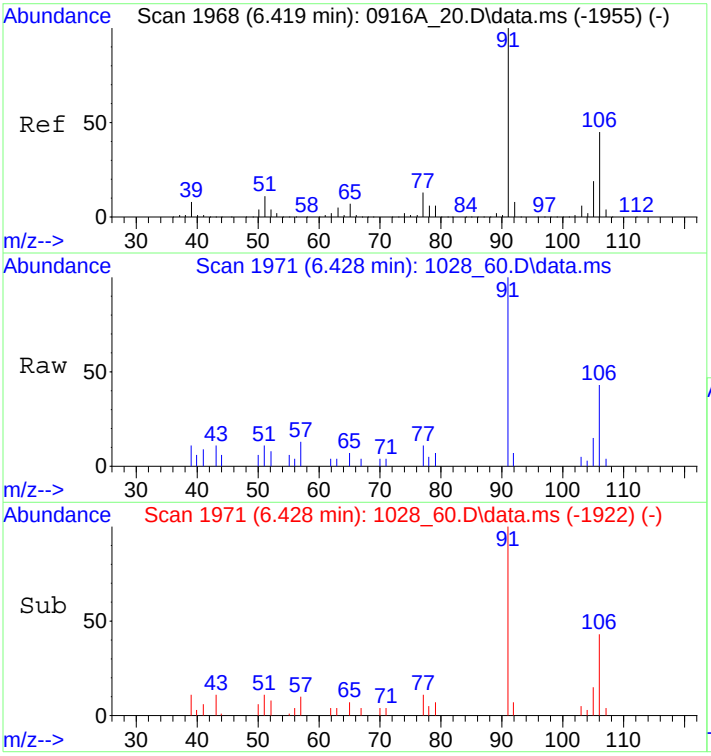


#63
M&P-XYLENE
Concen: 1.0510202 ppb
RT: 6.125 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 1028_60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion:106 Resp: 11696

Ion	Ratio	Lower	Upper
106	100		
91	187.4	164.7	247.1

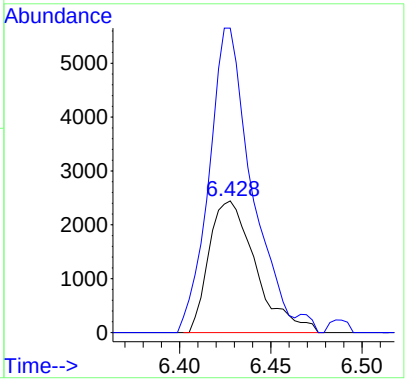


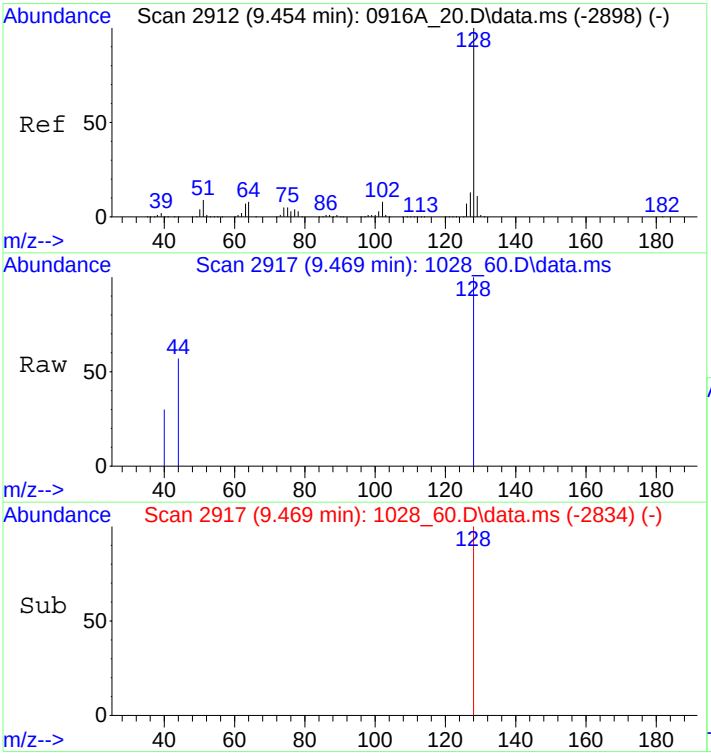


#64
O-XYLENE
Concen: 0.4117554 ppb
RT: 6.428 min Scan# 1971
Delta R.T. 0.009 min
Lab File: 1028 60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion:106 Resp: 4356

Ion	Ratio	Lower	Upper
106	100		
91	210.6	174.2	261.2

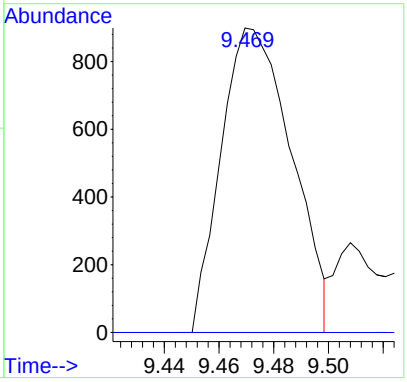




#92
Naphthalene
Concen: 2.3473544 ppb
RT: 9.469 min Scan# 2917
Delta R.T. 0.016 min
Lab File: 1028_60.D
Acq: 29 Oct 2014 12:48 pm

Tgt Ion:128 Resp: 1613

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 61.D
Acq On : 29 Oct 2014 1:10 pm
Operator : 644
Sample : L729026-05 1x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 58 Sample Multiplier: 0.86

InstName : VOCMS21
Quant Time: Nov 06 10:25:13 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

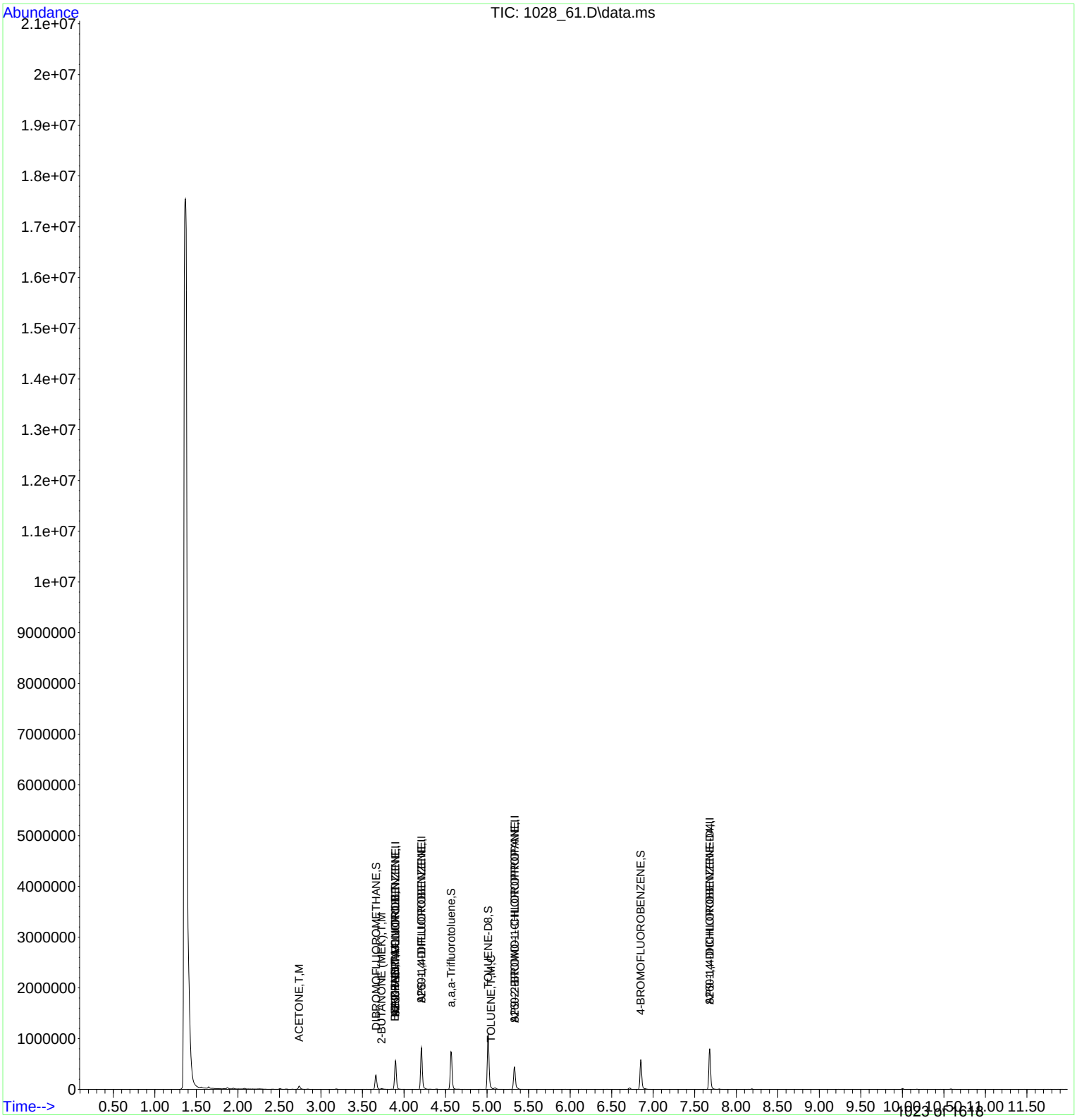
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	284376	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	515899	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	85148	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	189347	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	284376	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	515899	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	85148	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	189347	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	143041	40.0806107 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.20%		
46) a,a,a-Trifluorotoluene	4.566	146	257134	40.0287363 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.07%		
50) TOLUENE-D8	5.013	98	624593	37.7946094 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 94.49%		
68) 4-BROMOFLUOROBENZENE	6.849	95	207301	37.5552780 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.89%		
Target Compounds					Qvalue
5) CHLOROMETHANE	1.650	50	584	Below Cal #	49
16) ACETONE	2.737	43	70204	44.0354699 ppb	99
29) 2-BUTANONE (MEK)	3.730	72	5034	7.1349740 ppb	75
51) TOLUENE	5.049	91	11568	0.4046506 ppb	99

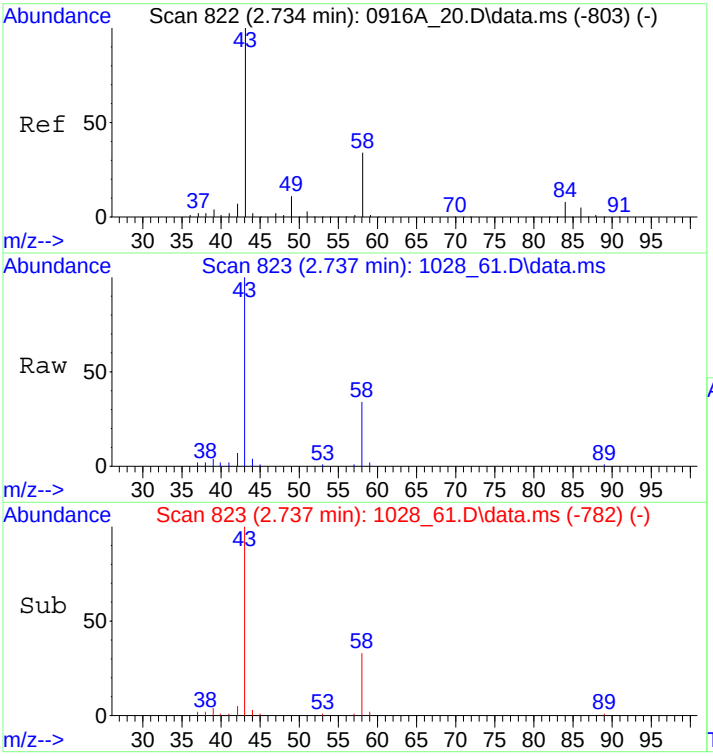
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 61.D
Acq On : 29 Oct 2014 1:10 pm
Operator : 644
Sample : L729026-05 1x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 58 Sample Multiplier: 0.86

InstName : VOCMS21
Quant Time: Nov 06 10:25:13 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

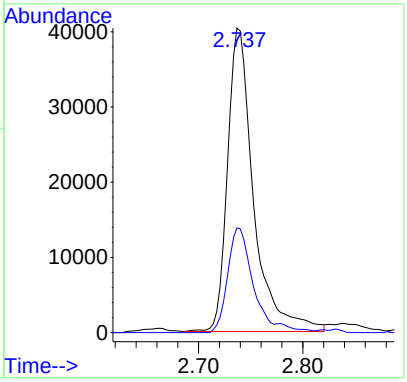


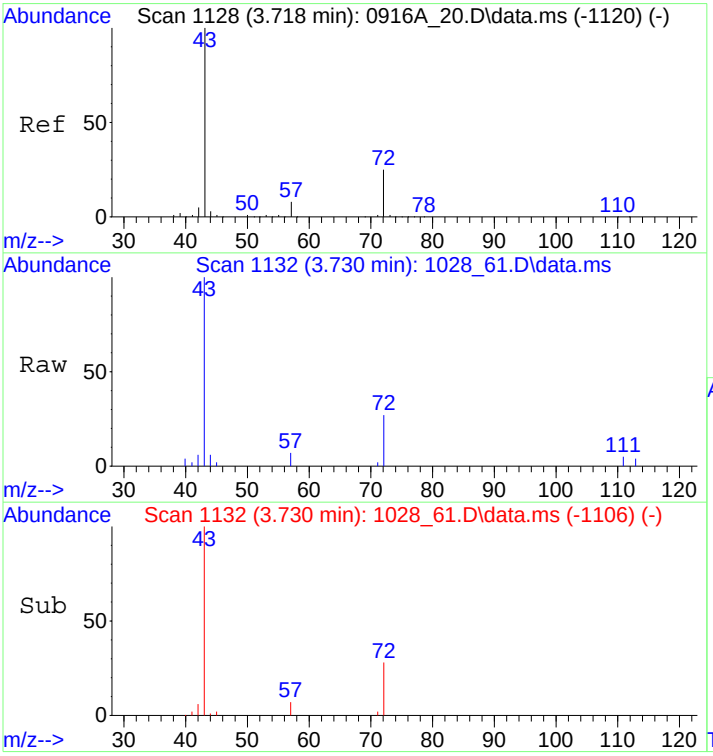


#16
ACETONE
Concen: 44.0354699 ppb
RT: 2.737 min Scan# 823
Delta R.T. 0.001 min
Lab File: 1028 61.D
Acq: 29 Oct 2014 1:10 pm

Tgt Ion: 43 Resp: 70204

Ion	Ratio	Lower	Upper
43	100		
58	34.3	28.0	42.0

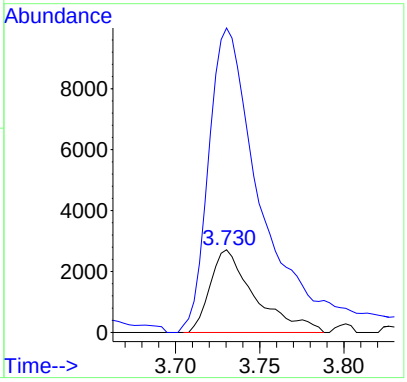


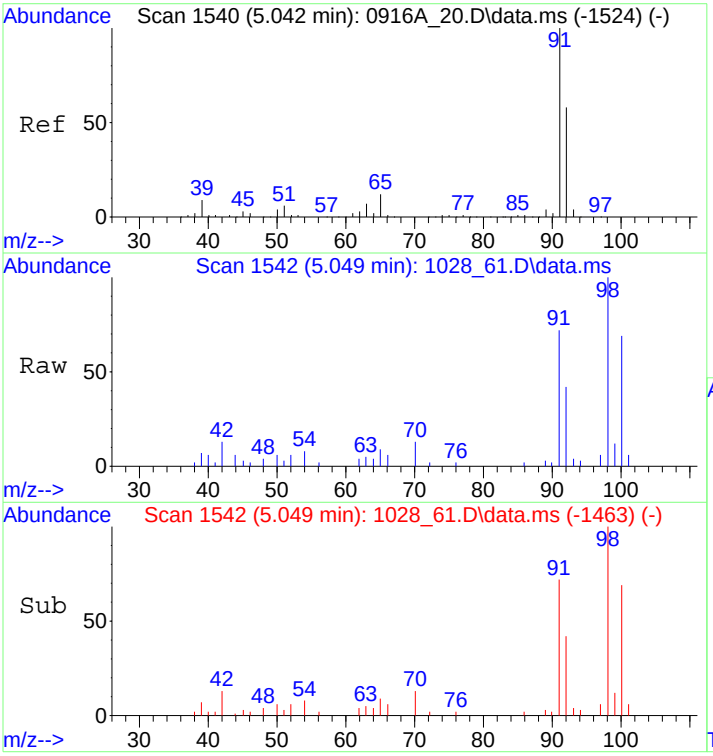


#29
2-BUTANONE (MEK)
Concen: 7.1349740 ppb
RT: 3.730 min Scan# 1132
Delta R.T. 0.010 min
Lab File: 1028_61.D
Acq: 29 Oct 2014 1:10 pm

Tgt Ion: 72 Resp: 5034

Ion	Ratio	Lower	Upper
72	100		
43	425.3	294.5	441.7

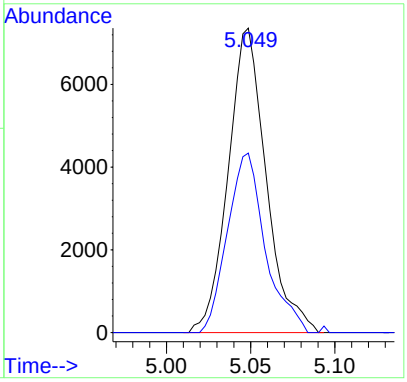




#51
TOLUENE
Concen: 0.4046506 ppb
RT: 5.049 min Scan# 1542
Delta R.T. 0.003 min
Lab File: 1028 61.D
Acq: 29 Oct 2014 1:10 pm

Tgt Ion: 91 Resp: 11568

Ion	Ratio	Lower	Upper
91	100		
92	58.7	46.6	69.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 62.D
Acq On : 29 Oct 2014 1:40 pm
Operator : 644
Sample : L729026-06 1x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 59 Sample Multiplier: 0.86

InstName : VOCMS21
Quant Time: Nov 06 10:26:35 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

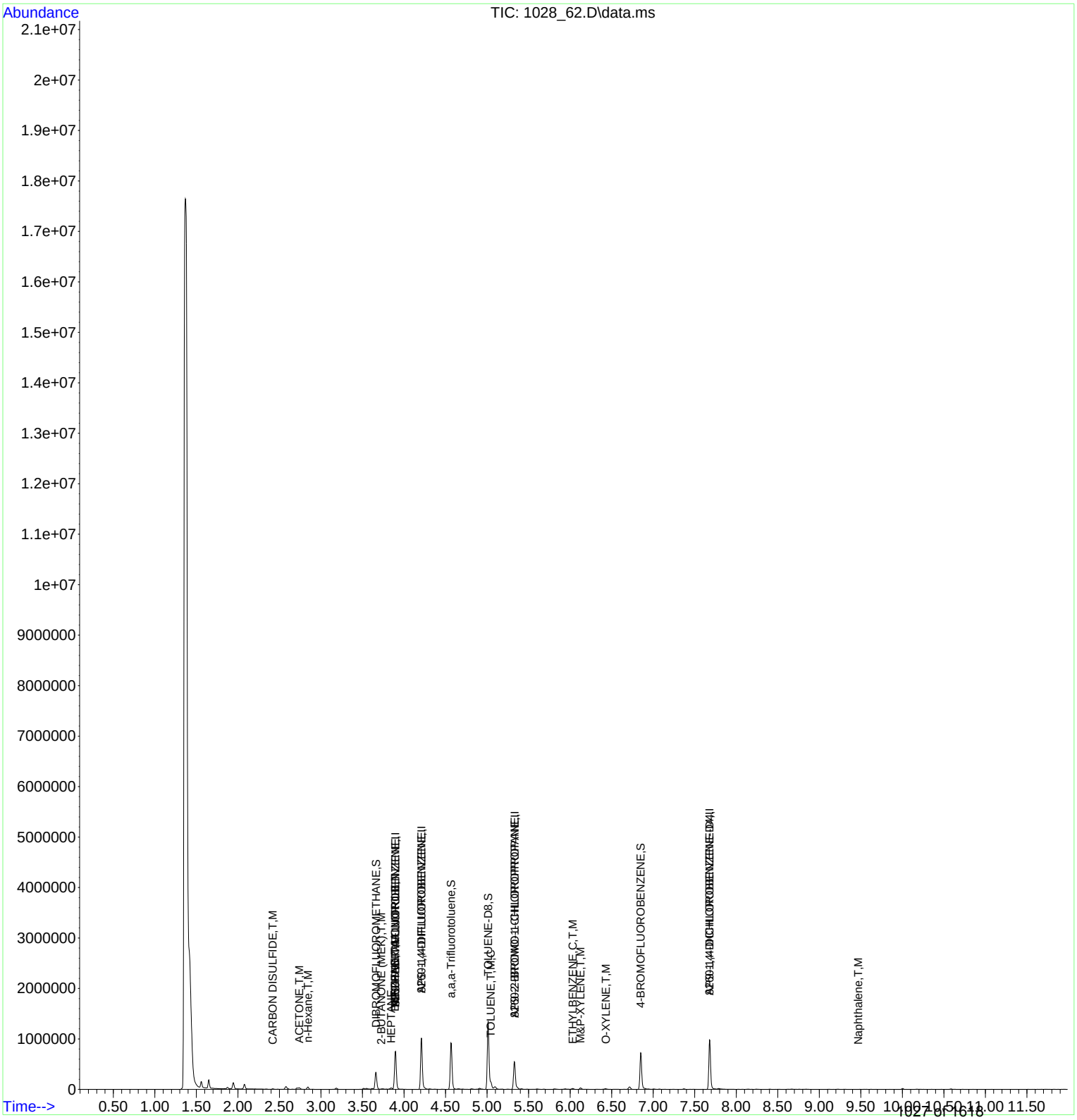
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	339435	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	614735	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	103754	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	225205	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	339435	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	614735	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	103754	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	225205	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	169988	39.9050975 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.76%		
46) a,a,a-Trifluorotoluene	4.566	146	310176	40.5226008 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.31%		
50) TOLUENE-D8	5.013	98	765346	38.8657731 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 97.16%		
68) 4-BROMOFLUOROBENZENE	6.849	95	253133	37.6346562 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 94.09%		
Target Compounds					Qvalue
16) ACETONE	2.740	43	34705	18.2376613 ppb #	87
18) CARBON DISULFIDE	2.419	76	7582	0.3157602 ppb	97
21) n-Hexane	2.843	56	8574	0.9711255 ppb #	87
29) 2-BUTANONE (MEK)	3.727	72	2479	2.9436897 ppb	78
38) HEPTANE	3.846	43	9834	0.6336275 ppb	96
39) BENZENE	3.891	78	70080	2.1350700 ppb #	90
51) TOLUENE	5.045	91	72334	2.1234456 ppb	100
62) ETHYLBENZENE	6.033	106	4224	0.3941385 ppb	94
63) M&P-XYLENE	6.126	106	8944	0.6783861 ppb	87
92) Naphthalene	9.470	128	1778	2.4559718 ppb #	72

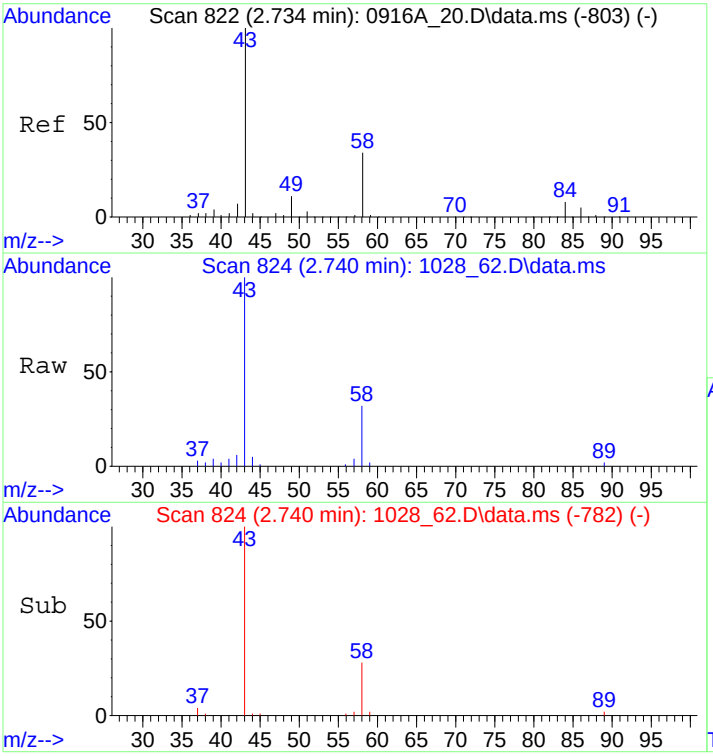
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102814\
Data File : 1028 62.D
Acq On : 29 Oct 2014 1:40 pm
Operator : 644
Sample : L729026-06 1x WG750239 V8260
Misc : soil SSURR14I25028
ALS Vial : 59 Sample Multiplier: 0.86

InstName : VOCMS21
Quant Time: Nov 06 10:26:35 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

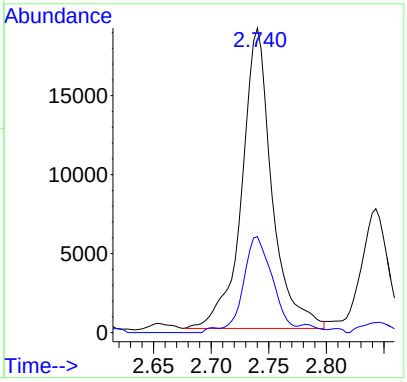


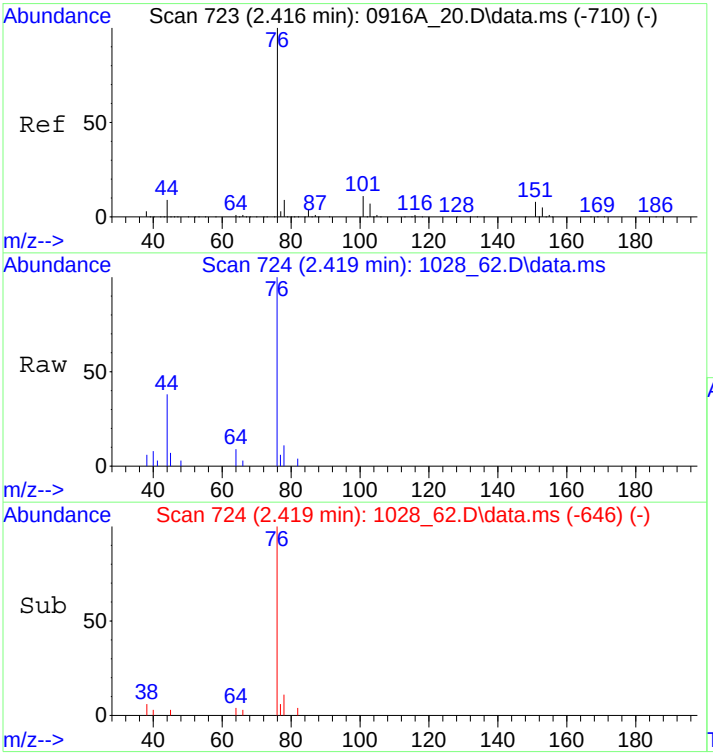


#16
ACETONE
Concen: 18.2376613 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1028 62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion: 43 Resp: 34705

Ion	Ratio	Lower	Upper
43	100		
58	27.3	28.0	42.0#

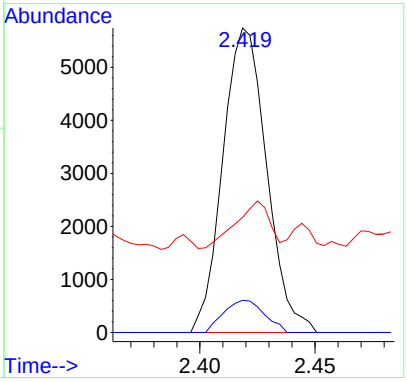


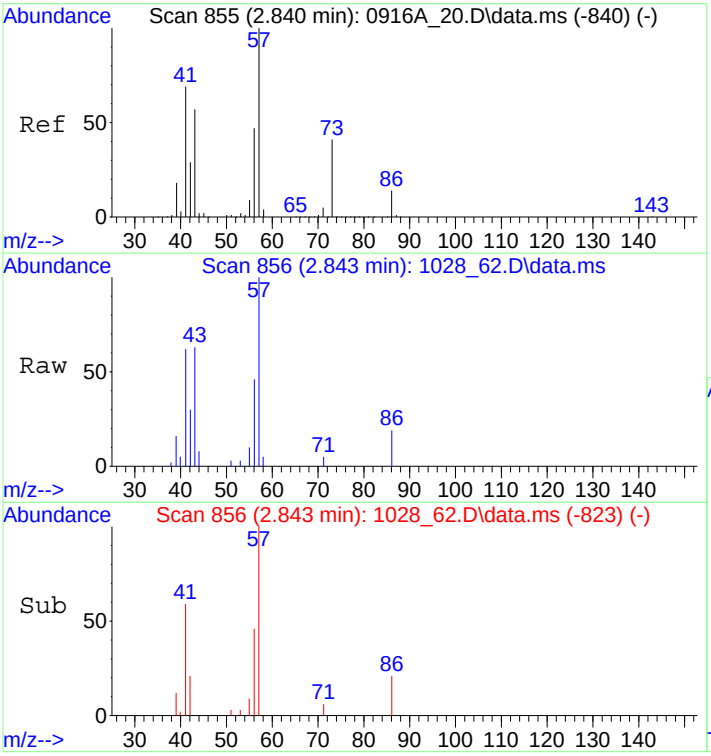


#18
CARBON DISULFIDE
Concen: 0.3157602 ppb
RT: 2.419 min Scan# 724
Delta R.T. -0.000 min
Lab File: 1028_62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion: 76 Resp: 7582

Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.8	11.6
44	11.6	7.8	11.6

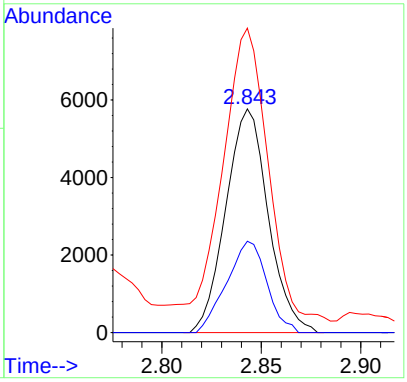


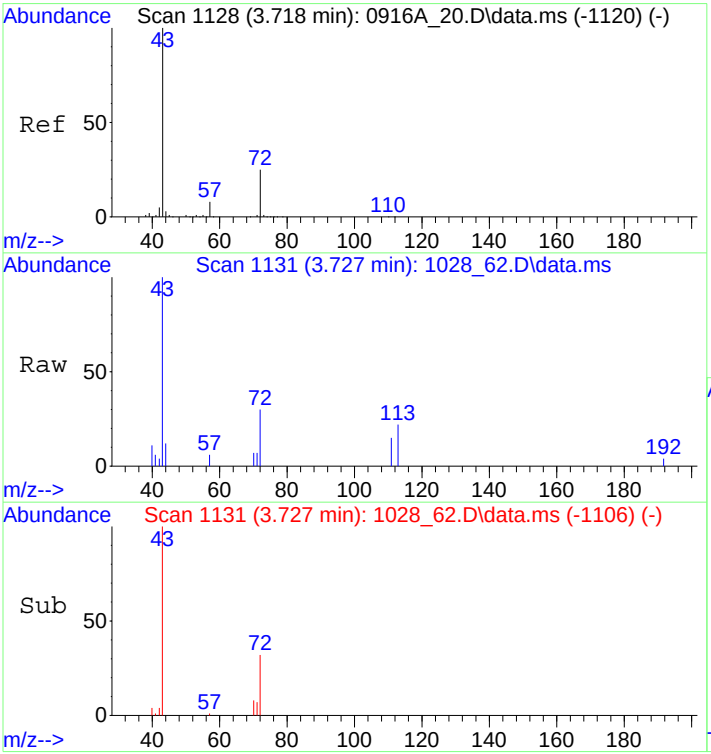


#21
n-Hexane
Concen: 0.9711255 ppb
RT: 2.843 min Scan# 856
Delta R.T. -0.000 min
Lab File: 1028 62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion: 56 Resp: 8574

Ion	Ratio	Lower	Upper
56	100		
86	38.5	23.4	35.0#
43	138.4	123.8	185.8

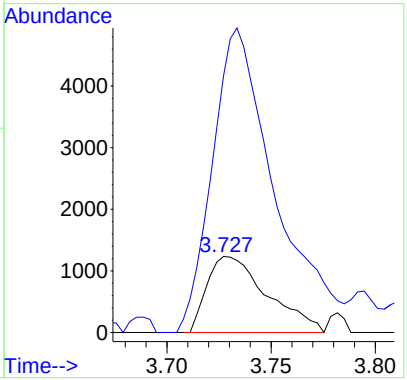


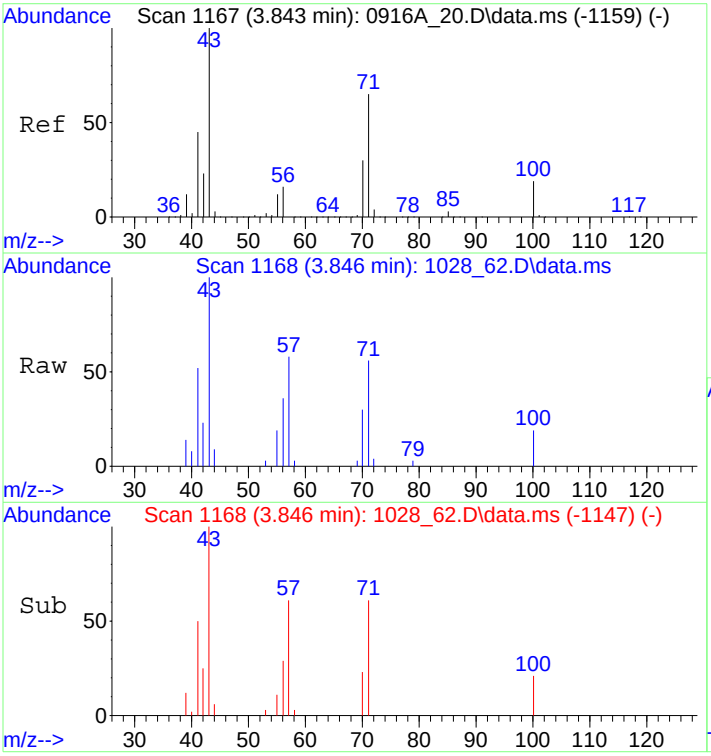


#29
2-BUTANONE (MEK)
Concen: 2.9436897 ppb
RT: 3.727 min Scan# 1131
Delta R.T. 0.007 min
Lab File: 1028_62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion: 72 Resp: 2479

Ion	Ratio	Lower	Upper
72	100		
43	416.4	294.5	441.7

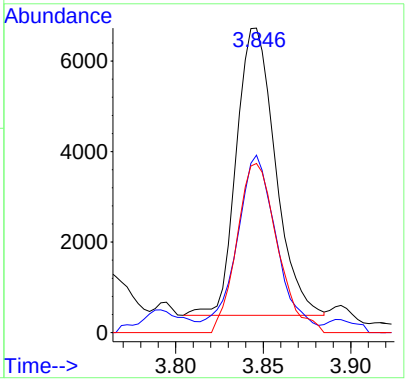


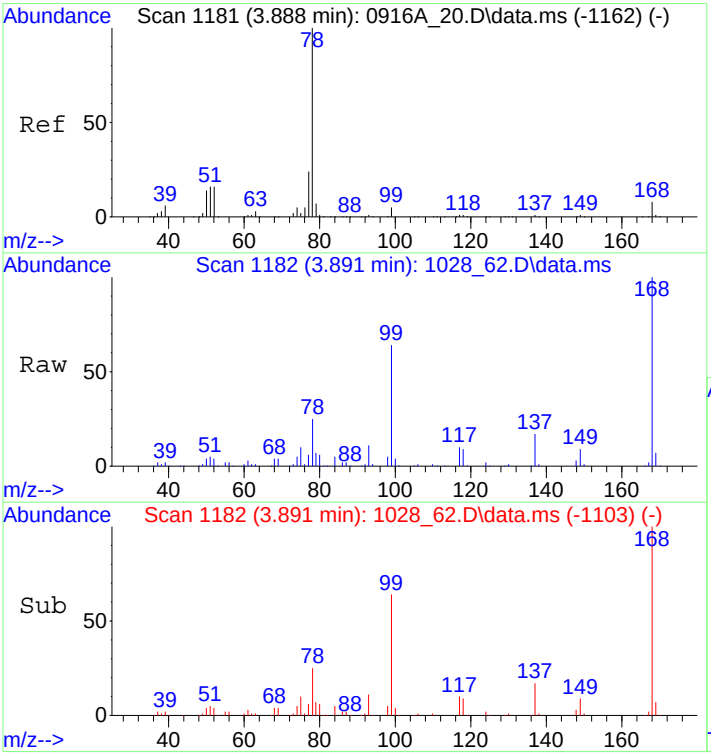


#38
HEPTANE
Concen: 0.6336275 ppb
RT: 3.846 min Scan# 1168
Delta R.T. 0.003 min
Lab File: 1028 62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion: 43 Resp: 9834

Ion	Ratio	Lower	Upper
43	100		
57	56.6	43.0	64.4
71	60.9	46.5	69.7

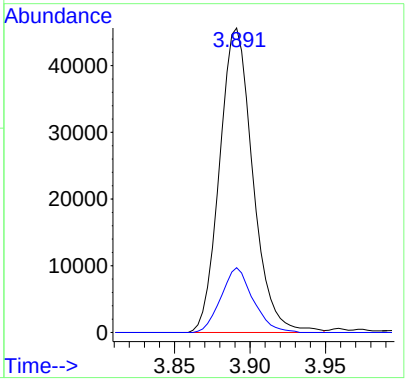


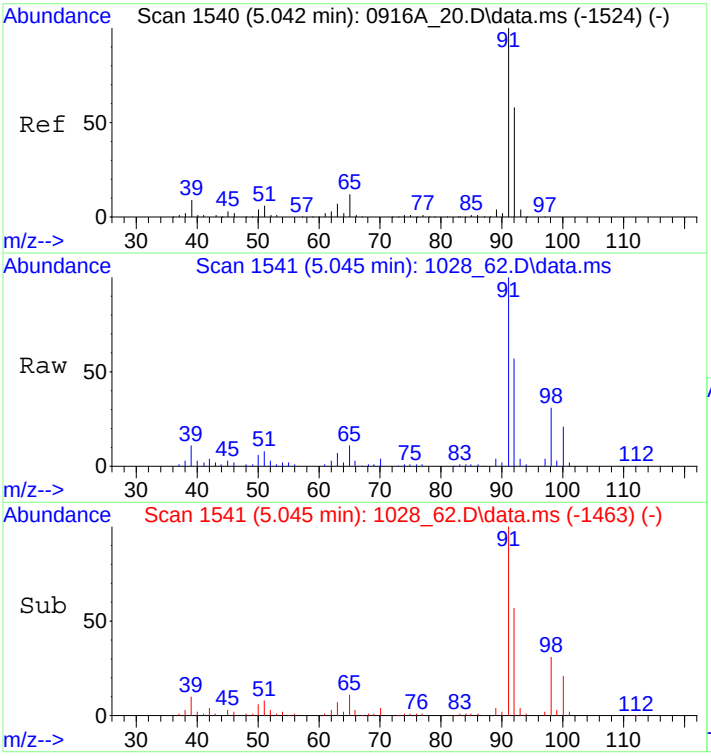


#39
BENZENE
Concen: 2.1350700 ppb
RT: 3.891 min Scan# 1182
Delta R.T. 0.003 min
Lab File: 1028_62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion: 78 Resp: 70080

Ion	Ratio	Lower	Upper
78	100		
51	20.4	13.0	19.4#

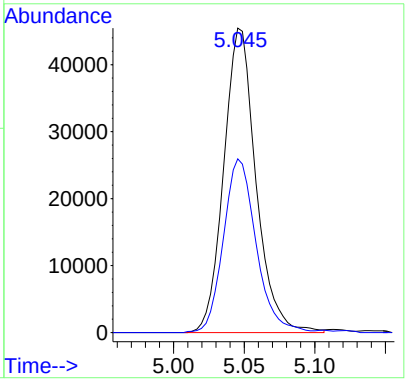


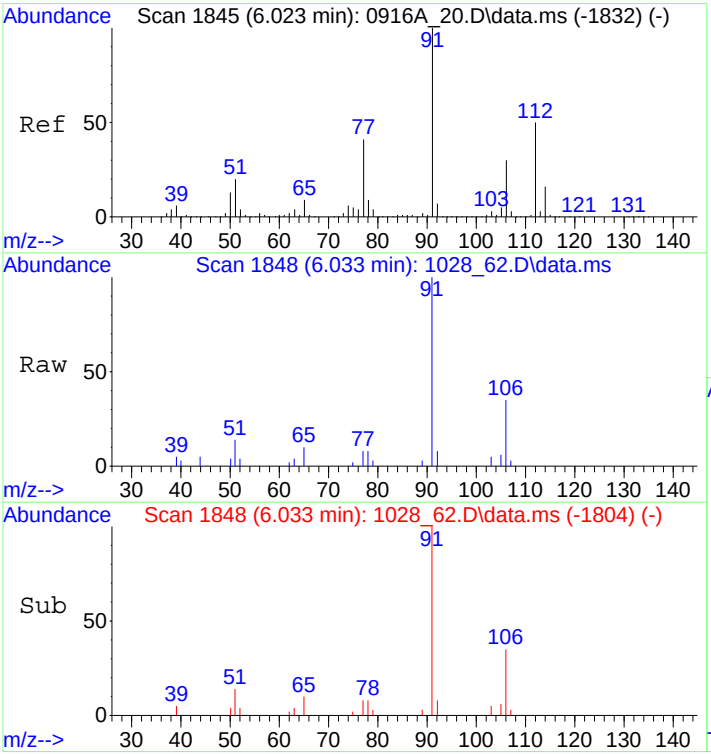


#51
TOLUENE
Concen: 2.1234456 ppb
RT: 5.045 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 1028 62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion: 91 Resp: 72334

Ion	Ratio	Lower	Upper
91	100		
92	57.9	46.6	69.8

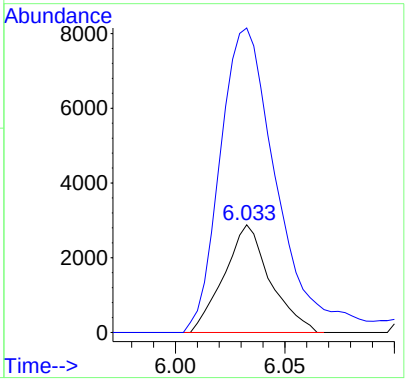


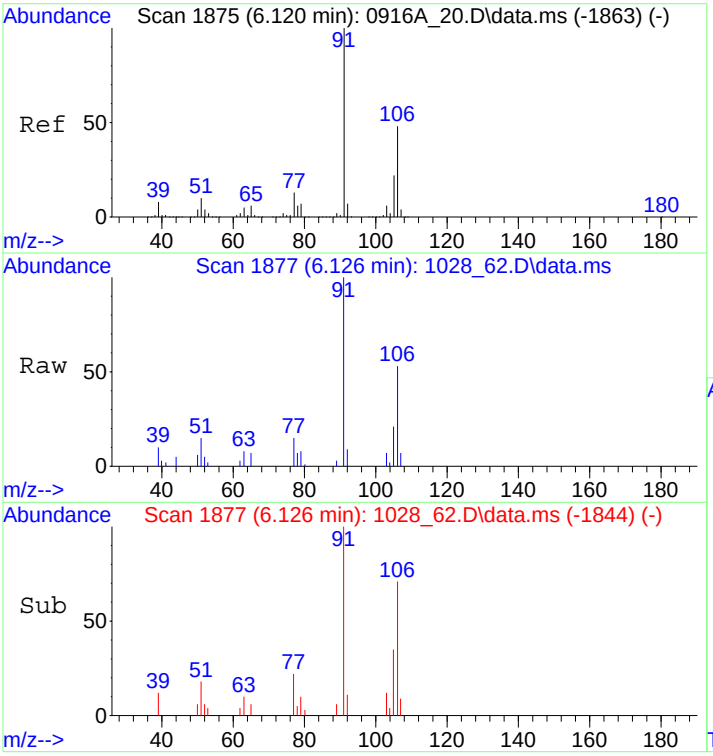


#62
ETHYLBENZENE
Concen: 0.3941385 ppb
RT: 6.033 min Scan# 1848
Delta R.T. 0.010 min
Lab File: 1028_62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion:106 Resp: 4224

Ion	Ratio	Lower	Upper
106	100		
91	348.2	268.2	402.2

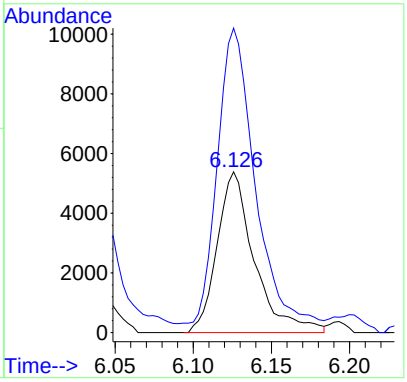


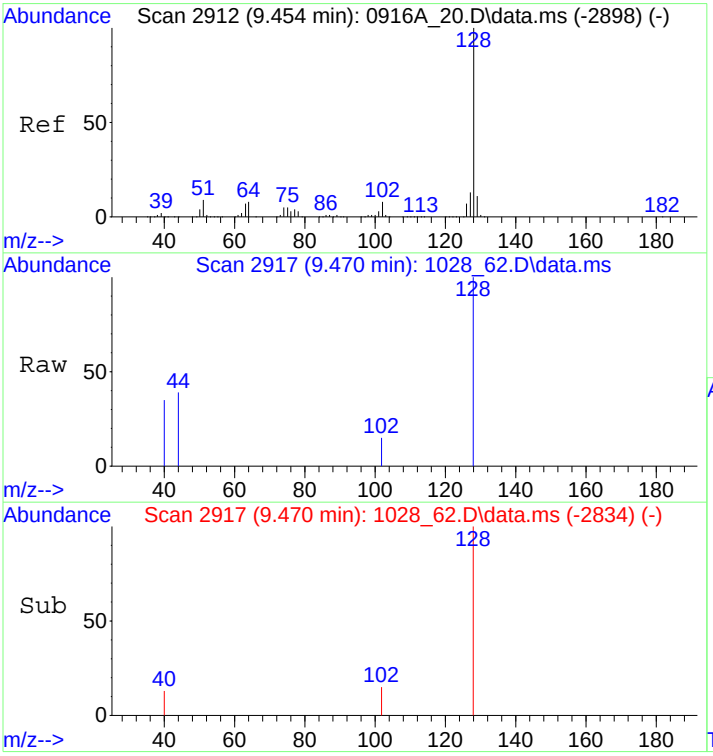


#63
M&P-XYLENE
Concen: 0.6783861 ppb
RT: 6.126 min Scan# 1877
Delta R.T. 0.006 min
Lab File: 1028 62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion:106 Resp: 8944

Ion	Ratio	Lower	Upper
106	100		
91	186.2	164.7	247.1

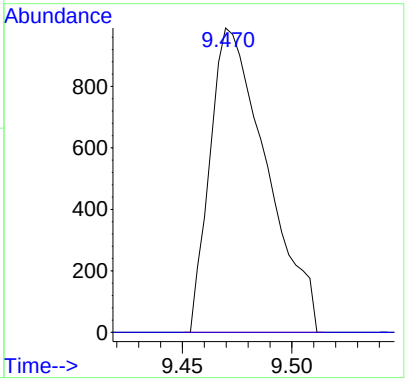




#92
Naphthalene
Concen: 2.4559718 ppb
RT: 9.470 min Scan# 2917
Delta R.T. 0.017 min
Lab File: 1028_62.D
Acq: 29 Oct 2014 1:40 pm

Tgt Ion:128 Resp: 1778

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Calibration

Instrument: VOCMS21
Method: V821I16N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0916A_11.D	.25	9/16/2014 6:09:00 PM
0916A_12.D	.5	9/16/2014 6:30:00 PM
0916A_13.D	1	9/16/2014 6:53:00 PM
0916A_14.D	2	9/16/2014 7:15:00 PM
0916A_15.D	5.0	9/16/2014 7:37:00 PM
0916A_16.D	10	9/16/2014 9:05:00 PM
0916A_17.D	25	9/16/2014 9:27:00 PM
0916A_18.D	40	9/16/2014 9:49:00 PM
0916A_20.D	100	9/16/2014 10:33:00 PM
0916A_21.D	200	9/16/2014 10:55:00 PM
0916A_25.D	1A	9/17/2014 12:23:00 AM
0916A_26.D	2.5A	9/17/2014 12:45:00 AM
0916A_27.D	5A	9/17/2014 1:07:00 AM
0916A_28.D	7.5A	9/17/2014 1:29:00 AM
0916A_29.D	10A	9/17/2014 1:52:00 AM
0916A_30.D	12A	9/17/2014 3:12:00 AM
0916A_31.D	15A	9/17/2014 3:34:00 AM
0916A_32.D	17A	9/17/2014 3:56:00 AM
0916A_33.D	20A	9/17/2014 4:18:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Brett Andersen
Date Released : 9/17/2014 11:10:15 AM

Run ID : 091614a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0916A_05	MS								1	09/16/14 1157	
2	0916A_07	INSTBLK	V821I03N						1	1	09/16/14 1346	"water ISSURR14G23644"
3	0916A_07	INSTBLK VMS								1	09/16/14 1346	
4	0916A_08	INSTBLK	V821I03N						1	1	09/16/14 1458	"water ISSURR14G23644"
5	0916A_08	INSTBLK VMS								1	09/16/14 1458	
6	0916A_11	STD VMS 0.25 PPB 14I15510	V821I16N						1	1	09/16/14 1809	"water ISSURR14G23644"
7	0916A_12	STD VMS 0.5 PPB 14I15510	V821I16N						1	1	09/16/14 1830	"water ISSURR14G23644"
8	0916A_13	STD VMS 1 PPB 14I15510	V821I16N						1	1	09/16/14 1853	"water ISSURR14G23644"
9	0916A_14	STD VMS 2 PPB 14I15510	V821I16N						1	1	09/16/14 1915	"water ISSURR14G23644"
10	0916A_15	STD VMS 5 PPB 14I15510	V821I16N						1	1	09/16/14 1937	"water ISSURR14G23644"
11	0916B_15	RL VMS 5 PPB 14I15510	V821I16N						1	1	09/16/14 1937	"water ISSURR14G23644"
12	0916A_16	STD VMS 10 PPB 14I15510	V821I16N						1	1	09/16/14 2105	"water ISSURR14G23644"
13	0916A_17	MSTD VMS 25 PPB 14I15510	V821I16N						1	1	09/16/14 2127	"water ISSURR14G23644"
14	0916A_18	STD VMS 40 PPB 14I15510	V821I16N						1	1	09/16/14 2149	"water ISSURR14G23644"
15	0916A_20	STD VMS 100 PPB 14I15510	V821I16N						1	1	09/16/14 2233	"water ISSURR14G23644"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

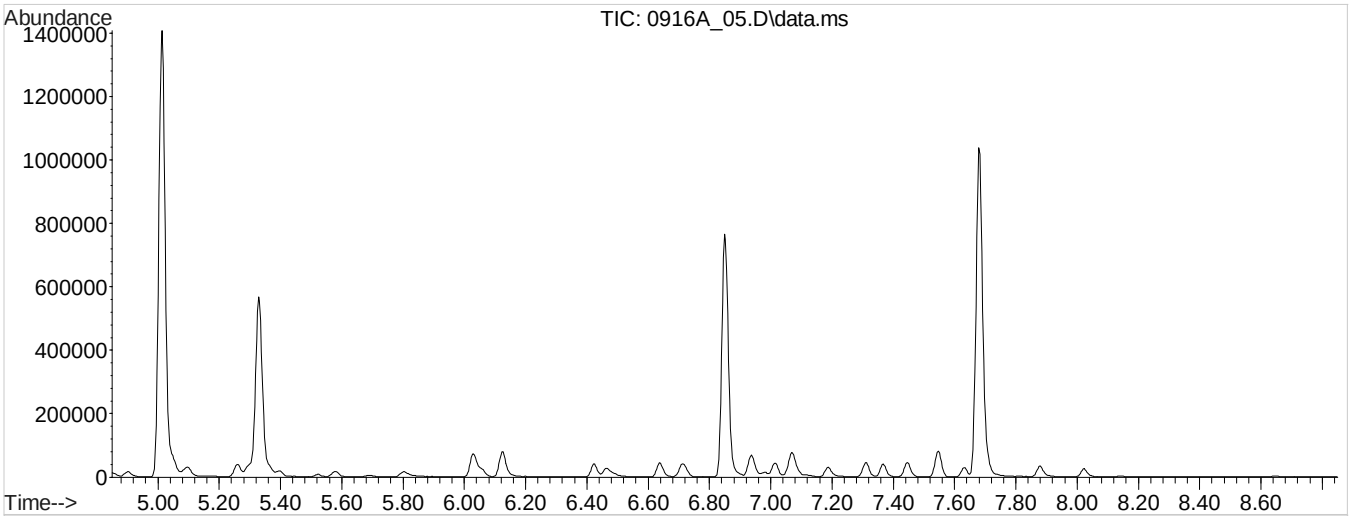
Instrument ID : VOCMS21
Computer Name : VOCCOMPAI
Released By : Brett Andersen
Date Released : 9/17/2014 11:10:15 AM
Run ID : 091614a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	0916A_21	STD VMS 200 PPB 14I15510	V821I16N						1	1	09/16/14 2255	"water ISSURR14G23644"
17	0916A_23	SSCV VMS 25 PPB 14I15511	V821I16N						1	1	09/16/14 2339	"water ISSURR14G23644"
18	0916A_24	INSTBLK	V821I16N						1	1	09/17/14 0001	"water ISSURR14G23644"
19	0916A_25	STD VMS 1 PPB 14I02840	V821I16N						1	1	09/17/14 0023	"water ISSURR14G23644"
20	0916A_26	STD VMS 2.5 PPB 14I02840	V821I16N						1	1	09/17/14 0045	"water ISSURR14G23644"
21	0916A_27	STD VMS 5 PPB 14I02840	V821I16N						1	1	09/17/14 0107	"water ISSURR14G23644"
22	0916A_28	STD VMS 7.5 PPB 14I02840	V821I16N						1	1	09/17/14 0129	"water ISSURR14G23644"
23	0916A_29	MSTD VMS 10A PPB 14I02840	V821I16N						1	1	09/17/14 0152	"water ISSURR14G23644"
24	0916A_30	STD VMS 12.5 PPB 14I02840	V821I16N						1	1	09/17/14 0312	"water ISSURR14G23644"
25	0916A_31	STD VMS 15 PPB 14I02840	V821I16N						1	1	09/17/14 0334	"water ISSURR14G23644"
26	0916A_32	STD VMS 17.5 PPB 14I02840	V821I16N						1	1	09/17/14 0356	"water ISSURR14G23644"
27	0916A_33	STD VMS 20 PPB 14I02840	V821I16N						1	1	09/17/14 0418	"water ISSURR14G23644"
28	0916A_35	SSCV VMS 10A PPB 14I02840	V821I16N						1	1	09/17/14 0502	"water ISSURR14G23644"

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 05.D
Acq On : 16 Sep 2014 11:57 am
Operator : 644
Sample : MS
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014



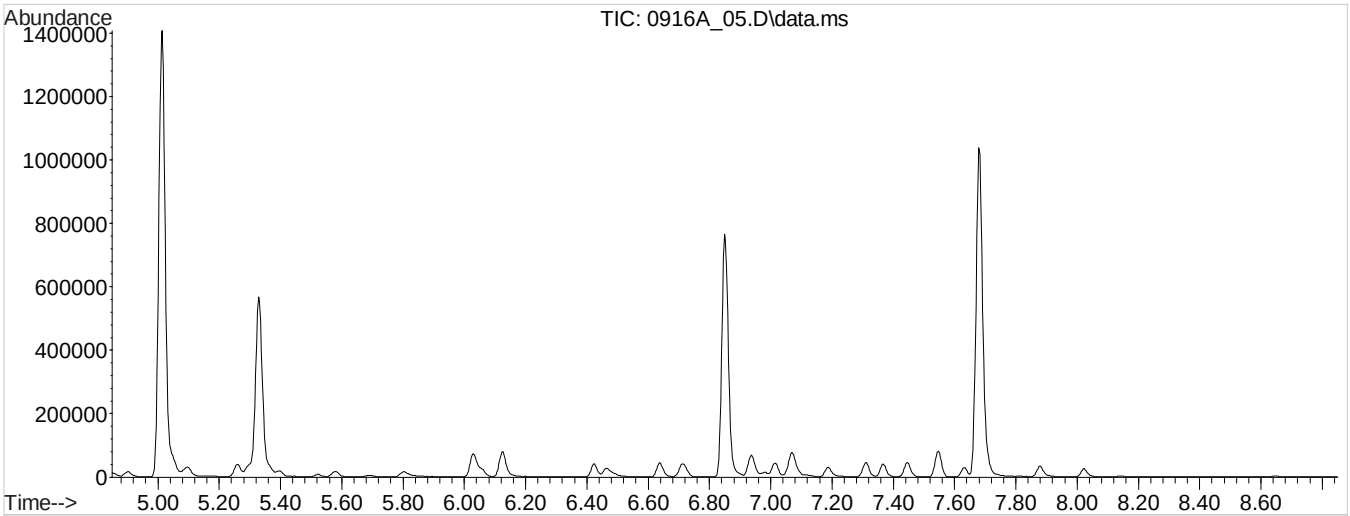
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2090

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	31808	PASS
75	95	30	60	49.7	84005	PASS
95	95	100	100	100.0	169003	PASS
96	95	5	9	6.7	11286	PASS
173	174	0.00	2	0.8	844	PASS
174	95	50	150	63.4	107080	PASS
175	174	5	9	7.6	8109	PASS
176	174	95	101	97.6	104544	PASS
177	176	5	9	6.8	7091	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 05.D
Acq On : 16 Sep 2014 11:57 am
Operator : 644
Sample : MS
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014



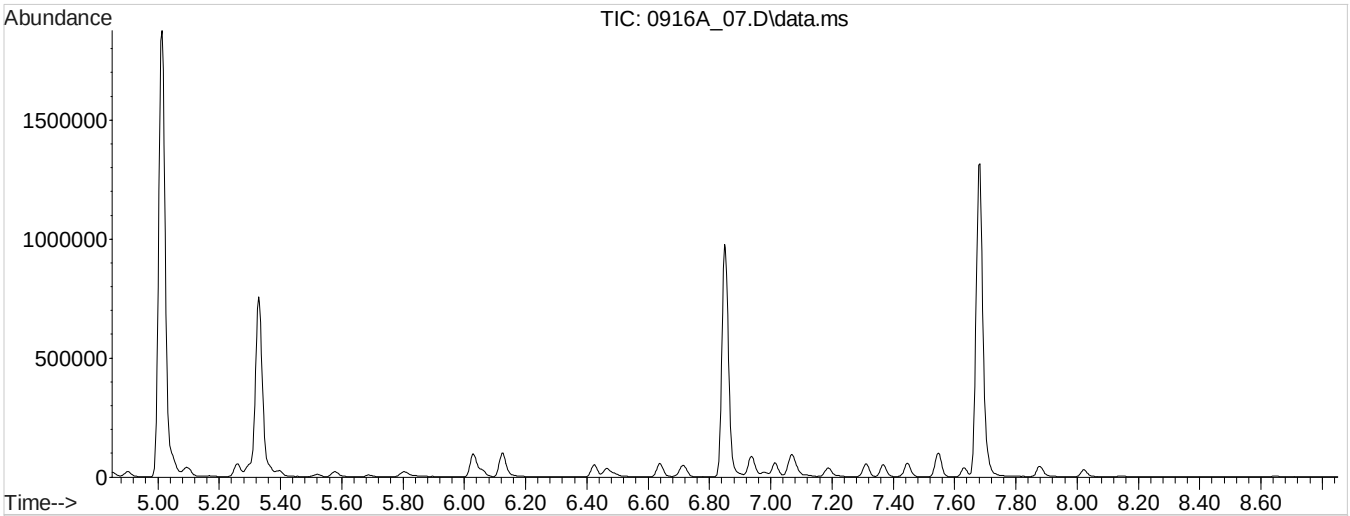
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2090

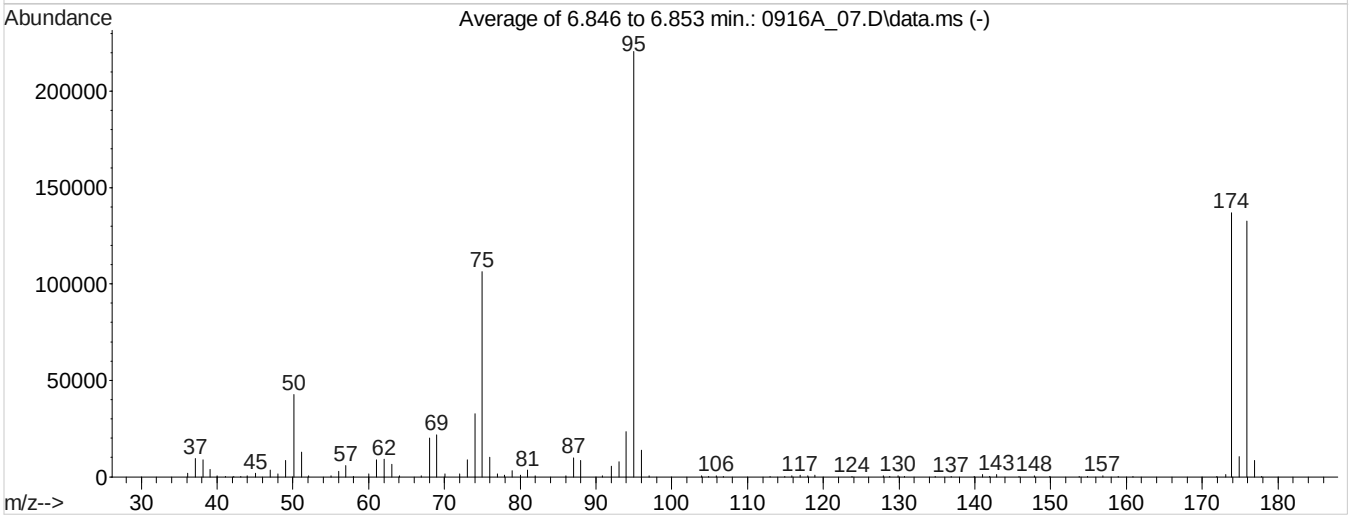
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	31808	PASS
75	95	30	60	49.7	84005	PASS
95	95	100	100	100.0	169003	PASS
96	95	5	9	6.7	11286	PASS
173	174	0.00	2	0.8	844	PASS
174	95	50	150	63.4	107080	PASS
175	174	5	9	7.6	8109	PASS
176	174	95	101	97.6	104544	PASS
177	176	5	9	6.8	7091	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 07.D
Acq On : 16 Sep 2014 1:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014





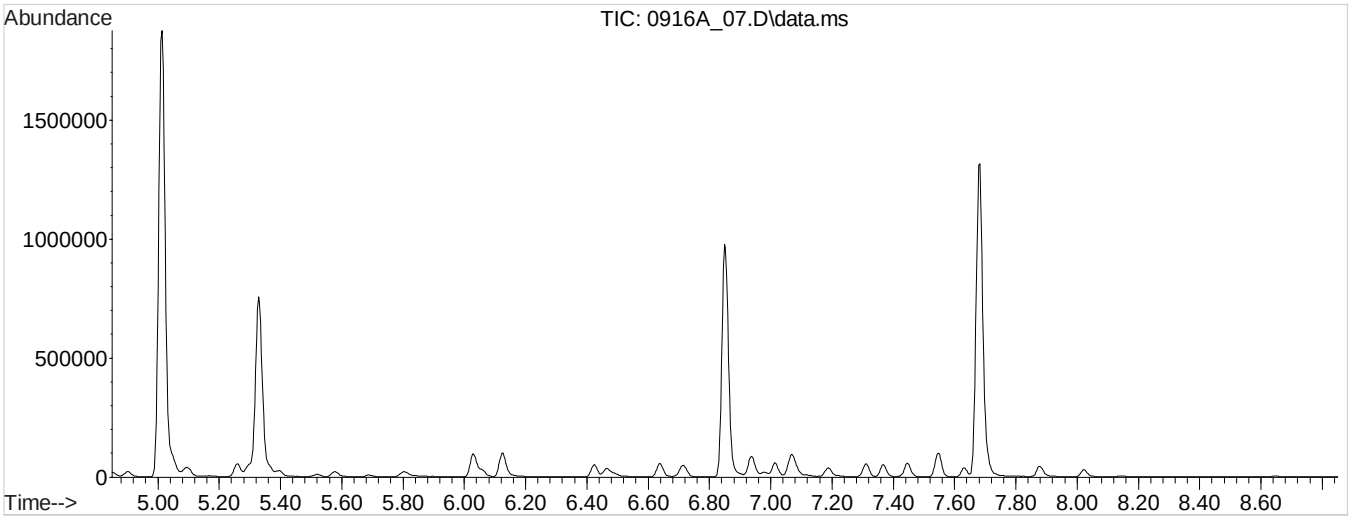
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

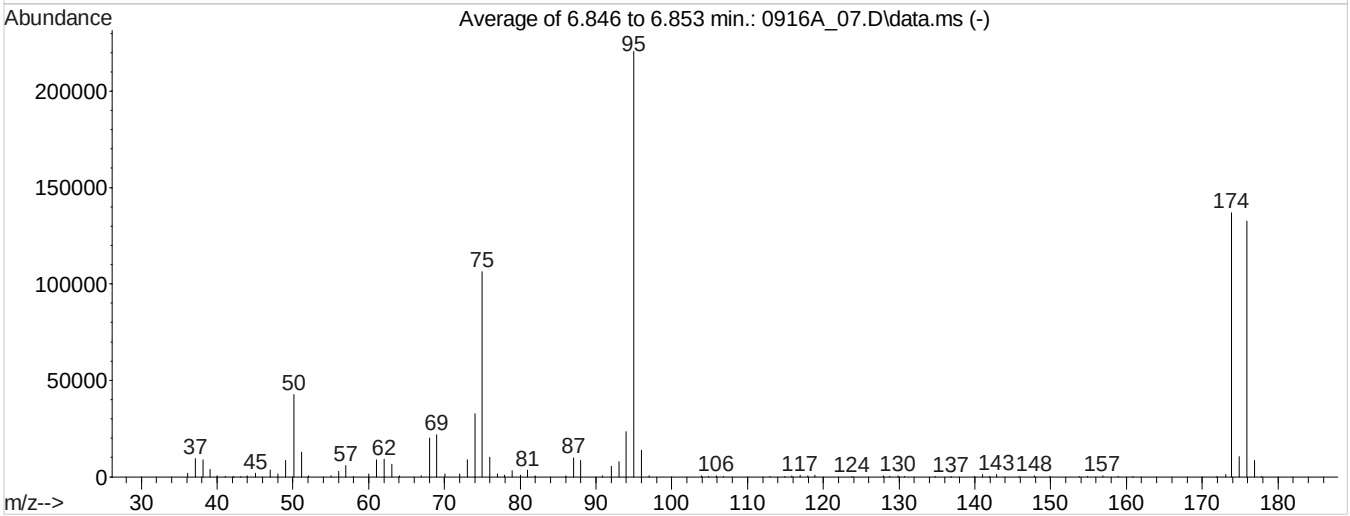
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	42605	PASS
75	95	30	60	48.2	106373	PASS
95	95	100	100	100.0	220629	PASS
96	95	5	9	6.2	13777	PASS
173	174	0.00	2	0.9	1181	PASS
174	95	50	150	62.1	136957	PASS
175	174	5	9	7.6	10434	PASS
176	174	95	101	96.9	132747	PASS
177	176	5	9	6.3	8314	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 07.D
Acq On : 16 Sep 2014 1:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014





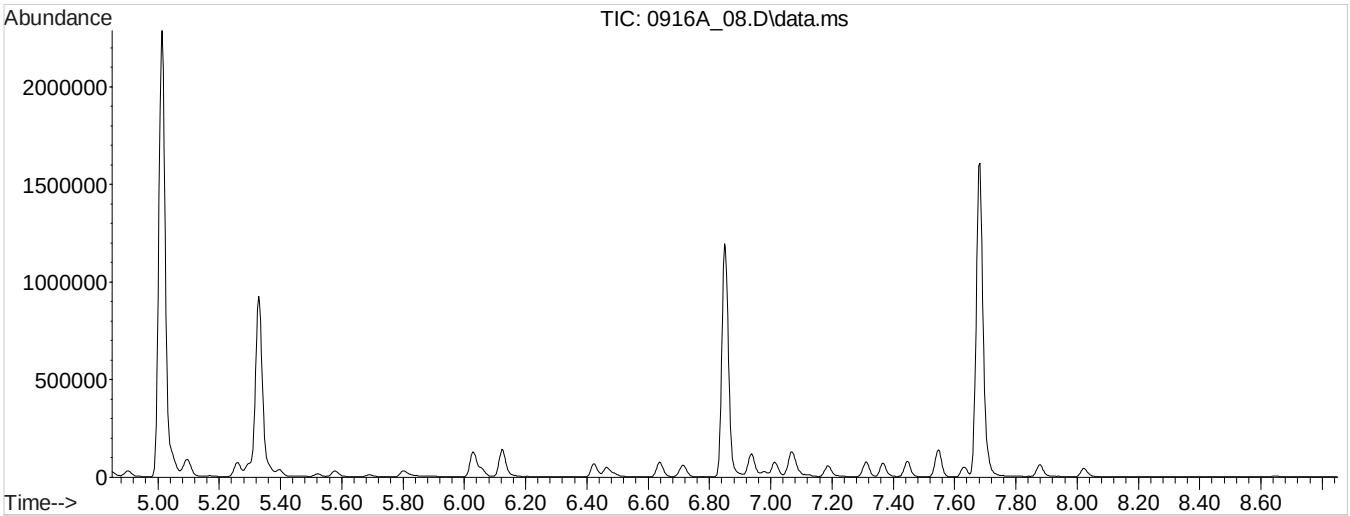
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

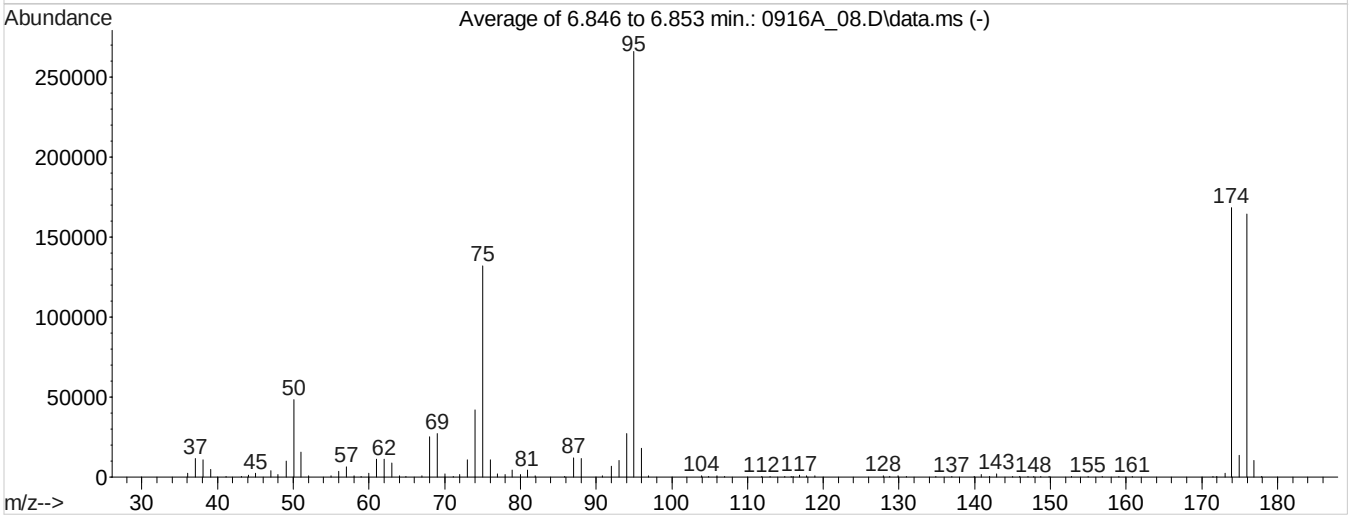
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	42605	PASS
75	95	30	60	48.2	106373	PASS
95	95	100	100	100.0	220629	PASS
96	95	5	9	6.2	13777	PASS
173	174	0.00	2	0.9	1181	PASS
174	95	50	150	62.1	136957	PASS
175	174	5	9	7.6	10434	PASS
176	174	95	101	96.9	132747	PASS
177	176	5	9	6.3	8314	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 08.D
Acq On : 16 Sep 2014 2:58 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014





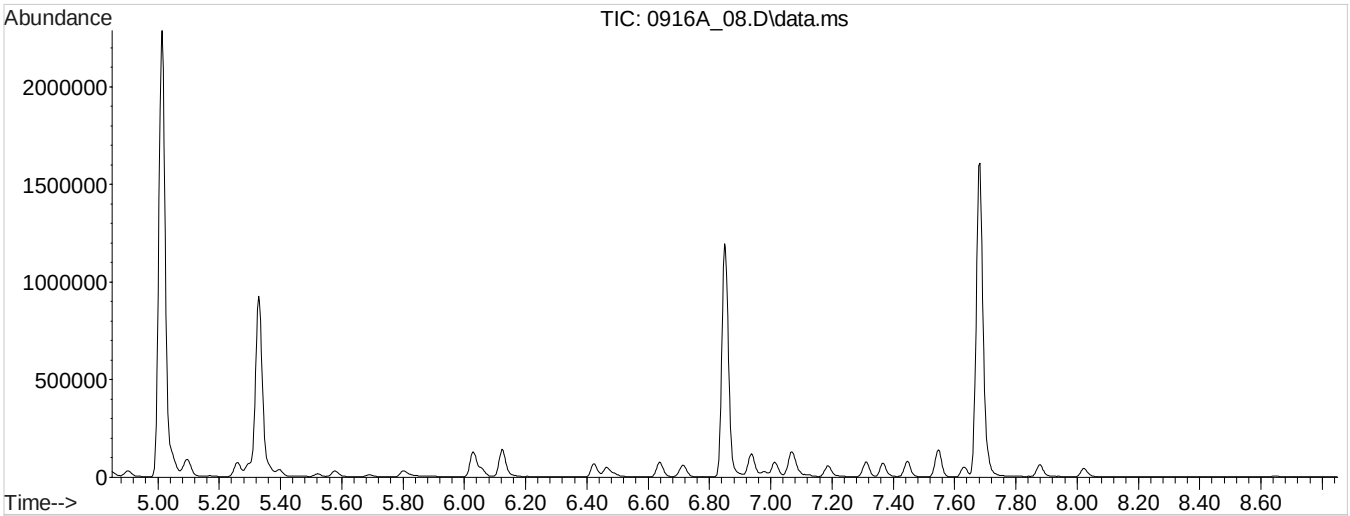
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

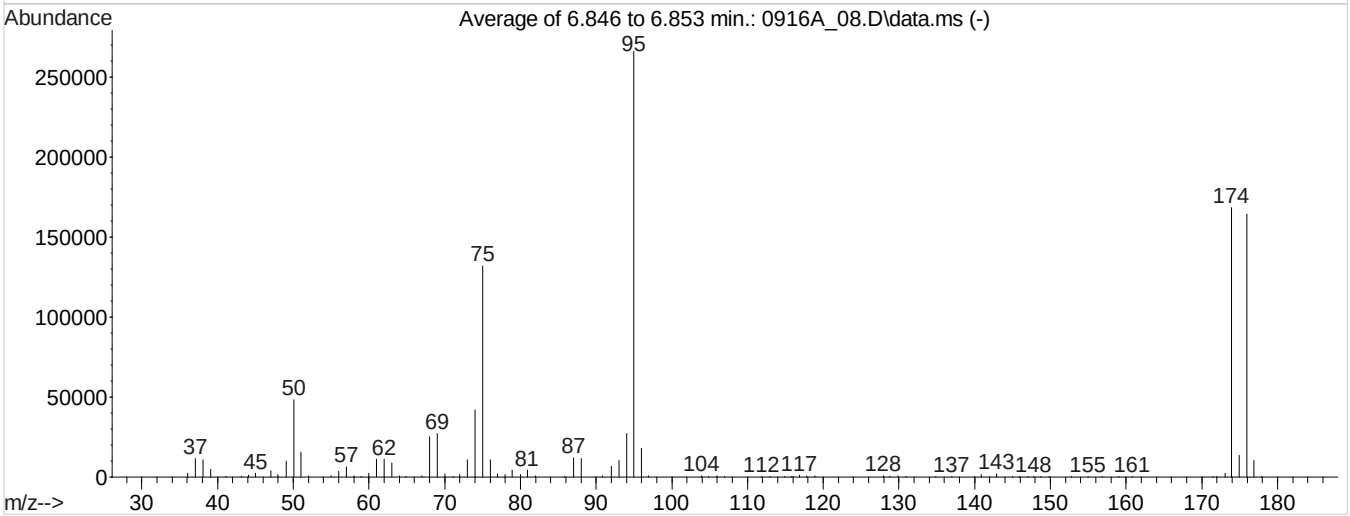
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	48357	PASS
75	95	30	60	49.5	131797	PASS
95	95	100	100	100.0	266219	PASS
96	95	5	9	6.7	17917	PASS
173	174	0.00	2	1.3	2203	PASS
174	95	50	150	63.3	168405	PASS
175	174	5	9	8.1	13611	PASS
176	174	95	101	97.7	164501	PASS
177	176	5	9	6.2	10256	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 08.D
Acq On : 16 Sep 2014 2:58 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014





AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	48357	PASS
75	95	30	60	49.5	131797	PASS
95	95	100	100	100.0	266219	PASS
96	95	5	9	6.7	17917	PASS
173	174	0.00	2	1.3	2203	PASS
174	95	50	150	63.3	168405	PASS
175	174	5	9	8.1	13611	PASS
176	174	95	101	97.7	164501	PASS
177	176	5	9	6.2	10256	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	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		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
1,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
SAP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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INITIAL CALIBRATION SUMMARY

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Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	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		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
1,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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INITIAL CALIBRATION SUMMARY

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BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
SAP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	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		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
2,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
4AP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	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		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
2,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
4-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
SAP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260B	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	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		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260B	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
2,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:00 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:00 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
SAP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260C	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:37 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	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		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0	
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1	0.1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0	0.1
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1	0.1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1	
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0	0.1
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1	0.1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1	0.1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1	
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1	
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1	
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1	0.1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1	0.1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1	
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1	0.1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1	0.1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1	
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1	
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1	0.1

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Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:37 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1	0.1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1	0.2
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1	
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1	
1,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1	
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1	0.1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1	0.1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1	
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1	
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1	0.2
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1	
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1	0.1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1	0.1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1	
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1	
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1	
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1	0.5
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1	0.1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1	0.2
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1	0.1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1	

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Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:37 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1	0.2
,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1	
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1	
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1	0.2
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1	0.1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1	
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1	0.4
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1	0.1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1	0.2
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1	
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1	0.1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1	0.1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1	0.1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1	
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1	0.1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1	0.1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1	0.3
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1	0.3
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1	0.1

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1	0.1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1	
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1	
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1	0.3
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1	
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1	
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1	
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1	
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1	
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1	
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1	
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1	
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1	
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1	
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1	0.6
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1	
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1	
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1	
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1	
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1	0.4
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1	

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1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1	0.05
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1	
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0	
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1	
1-Methylnaphthalene																				0	0	0	1	
2-Methylnaphthalene																				0	0	0	1	
SAP9-PENTAFLUOROBENZENE																								
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1	
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1	
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1	
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1	0.1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1	
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1	
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1	
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1	
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1	
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1	
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1	
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1	
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1	0.1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1	
ISOBUTANOL																				0	0	0	1	

PDF Generated On: 09/17/2014 -- By: Brett Andersen

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

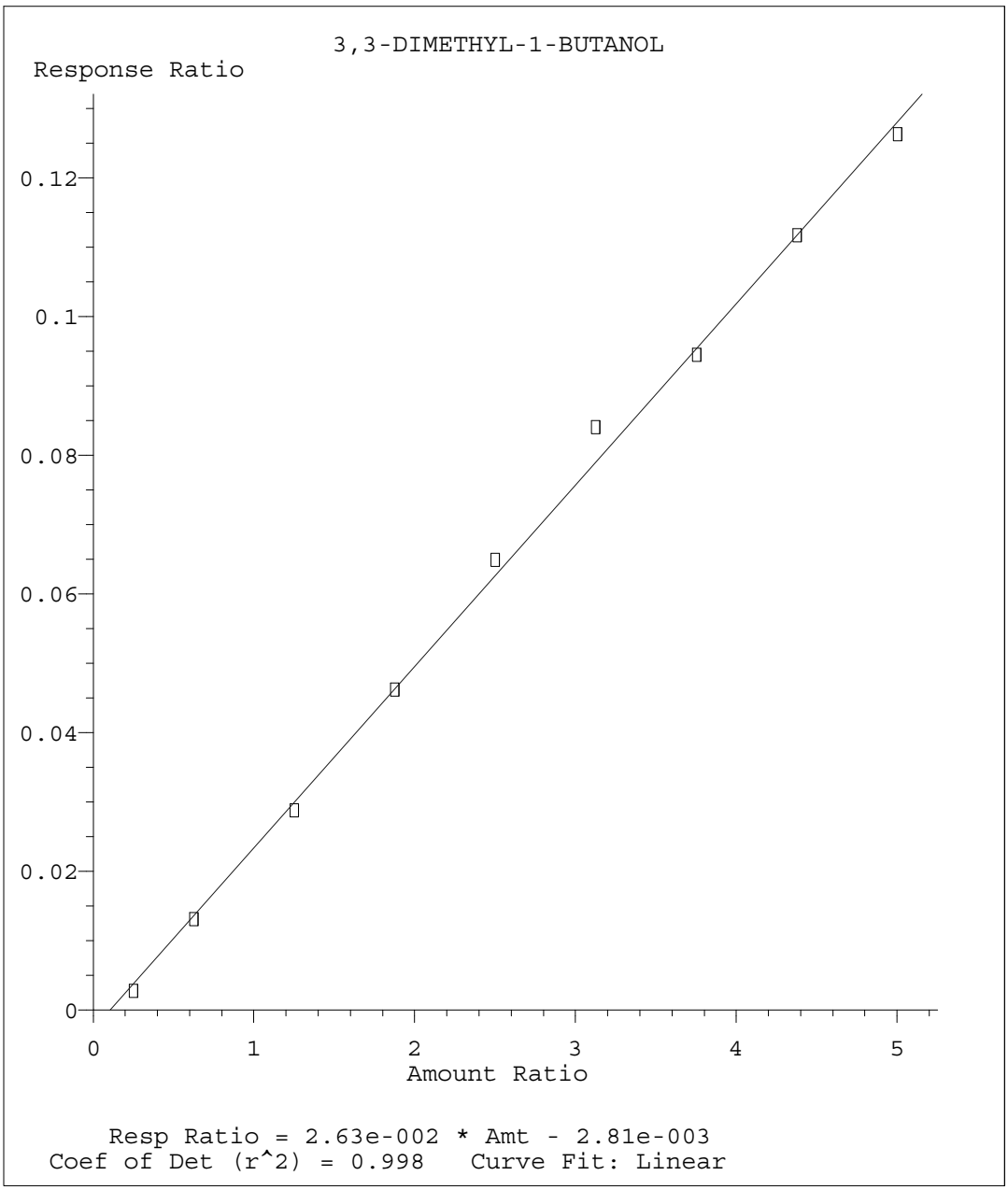
INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260C	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:37 AM

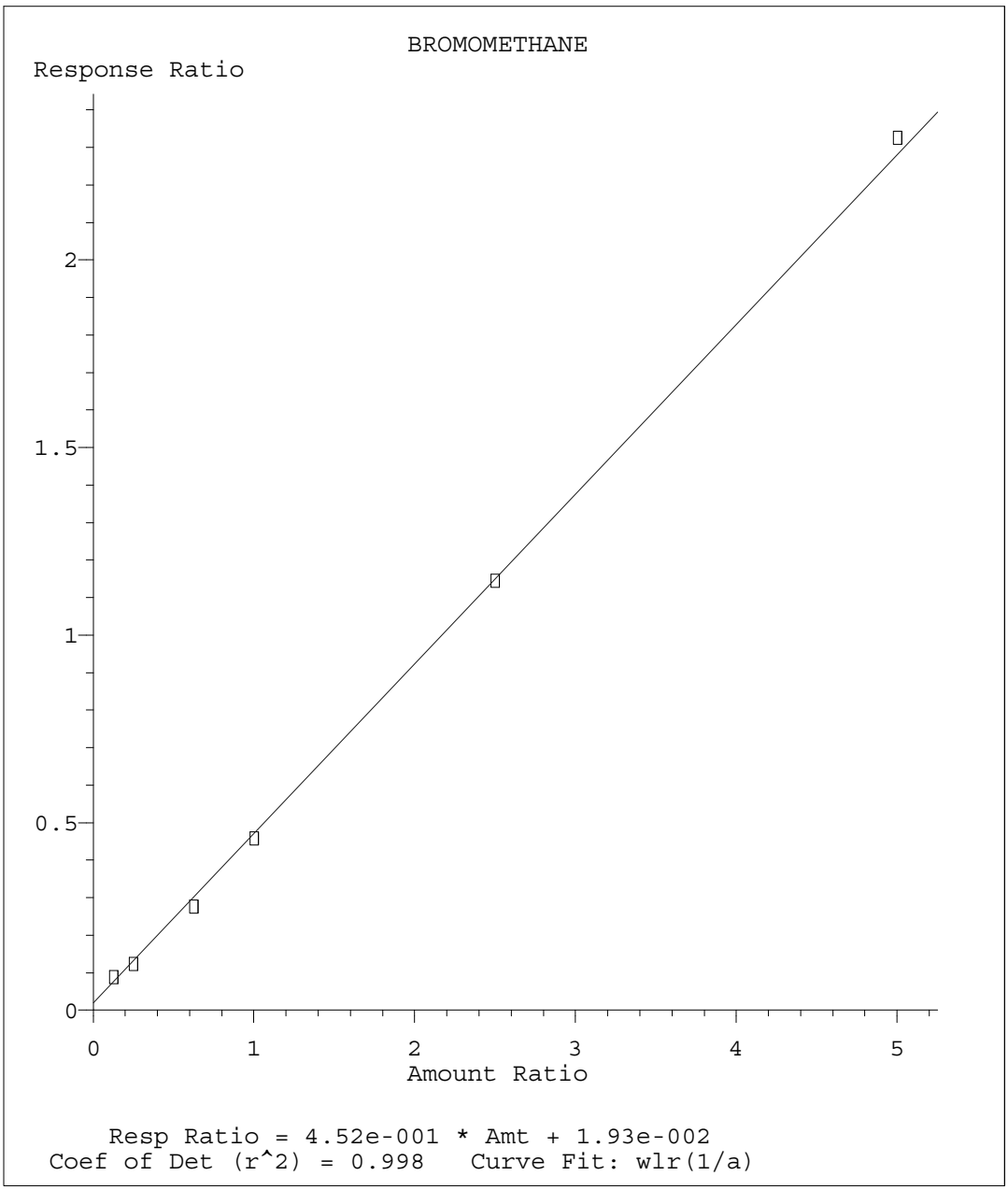
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1	
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1	
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0	
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1	0.1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1	
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1	
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1	
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1	
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0	
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1	
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1	
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1	
PENTACHLOROETHANE																				0	0	0	1	
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1	
AP9-1,4-DICHLOROBENZENE-D4																								

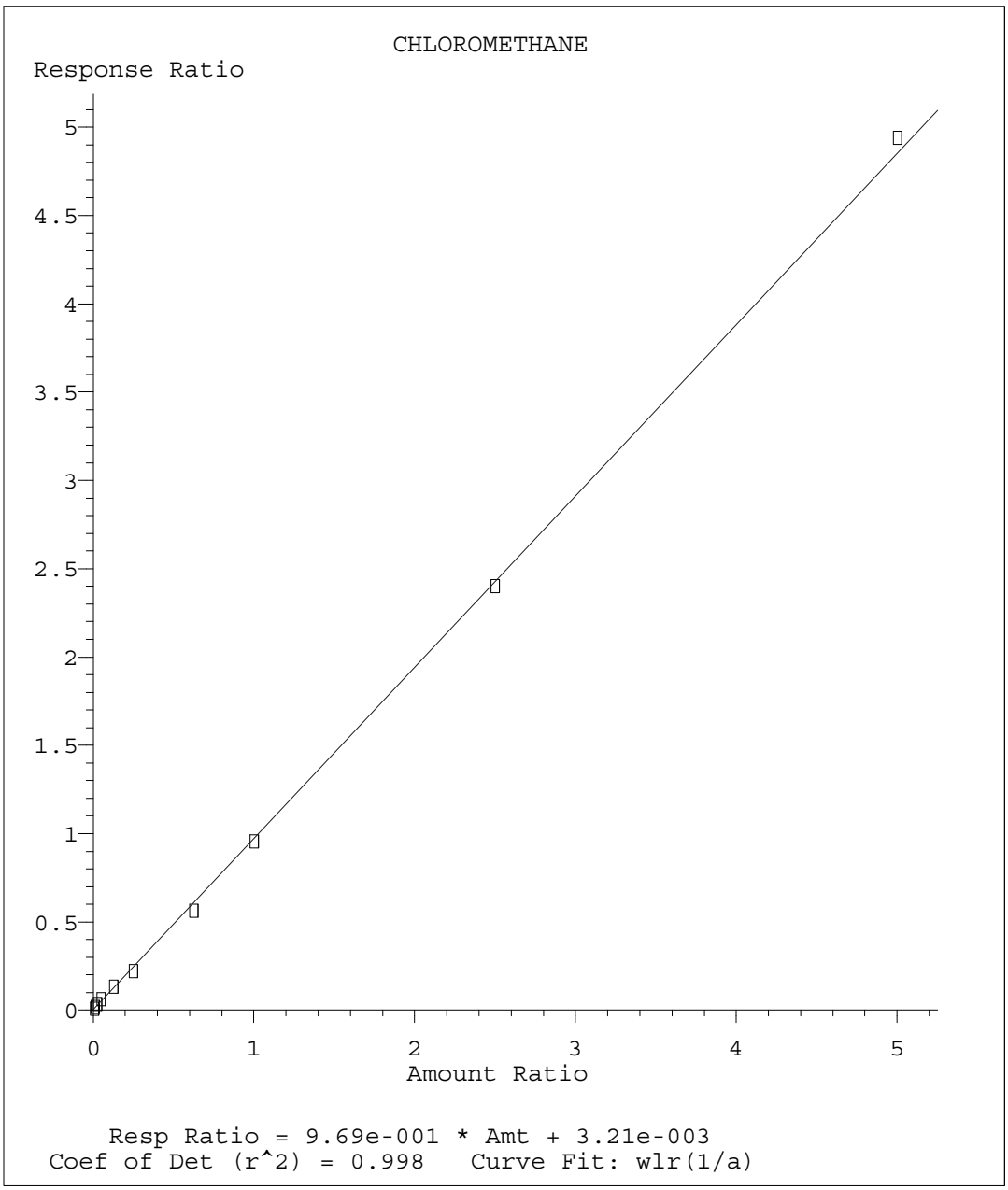
PDF Generated On: 09/17/2014 - By: Brett Andersen



Method Name: C:\msdchem\1\methods\V821I16N.M



Method Name: C:\msdchem\1\methods\V821I16N.M



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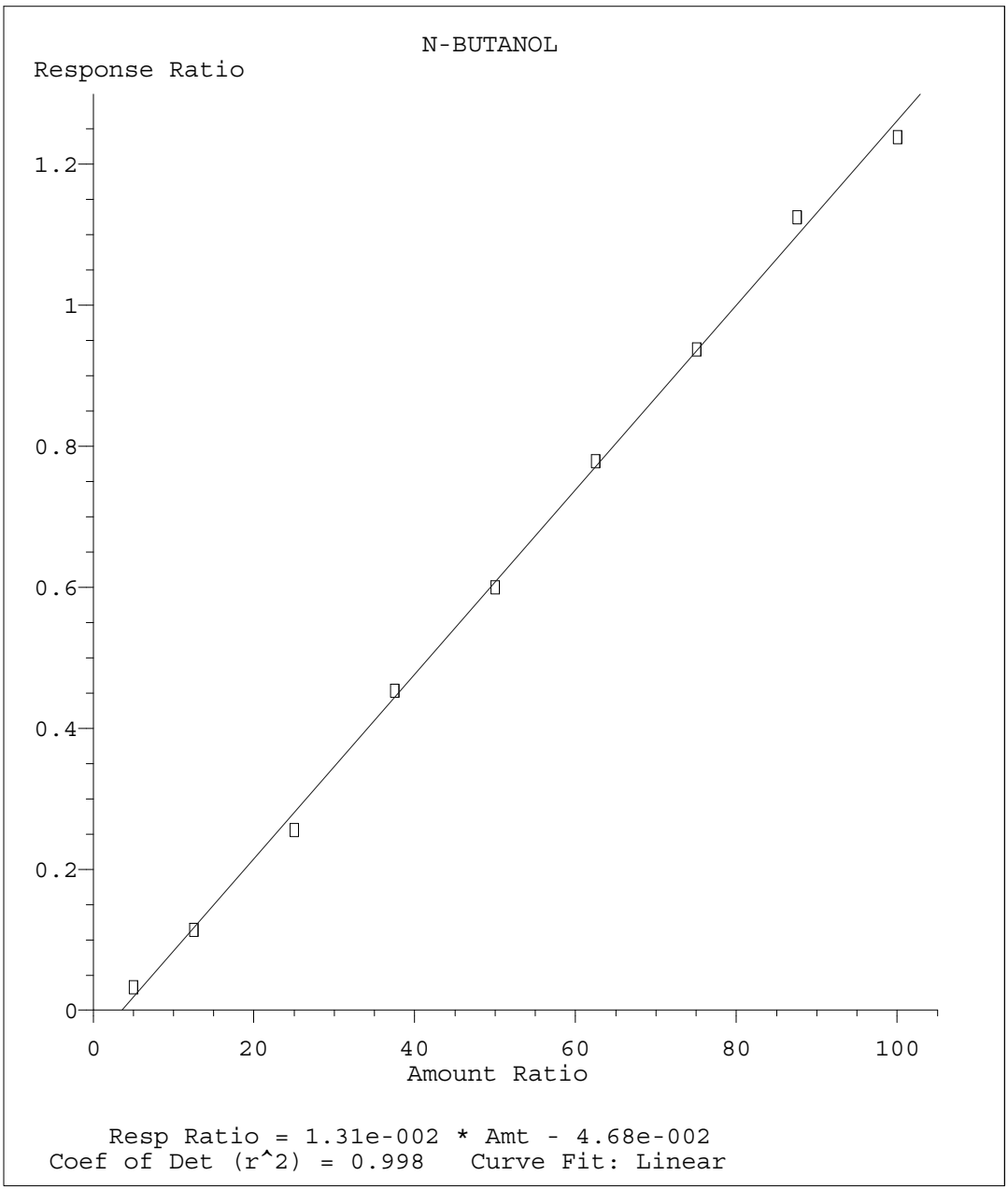
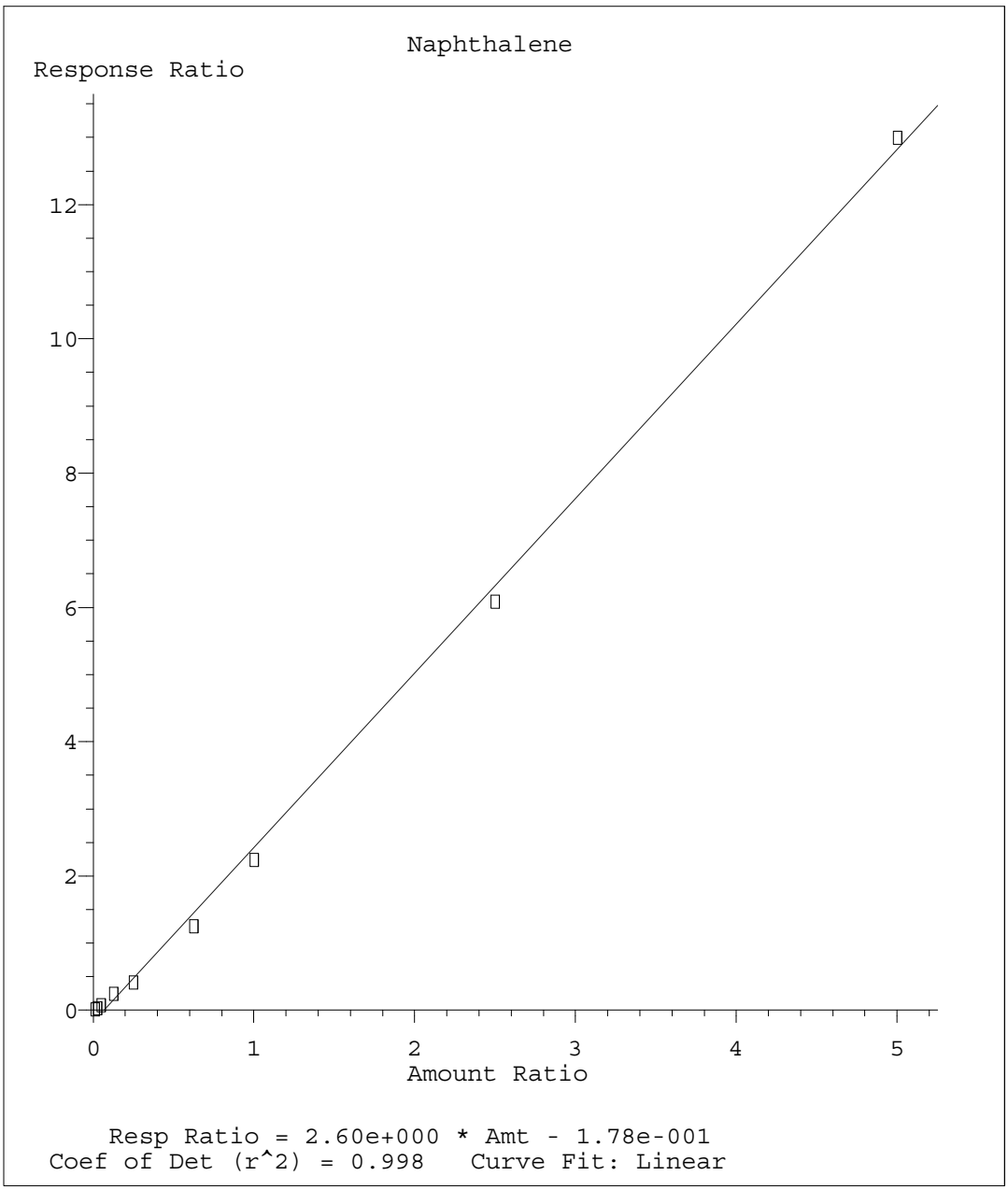
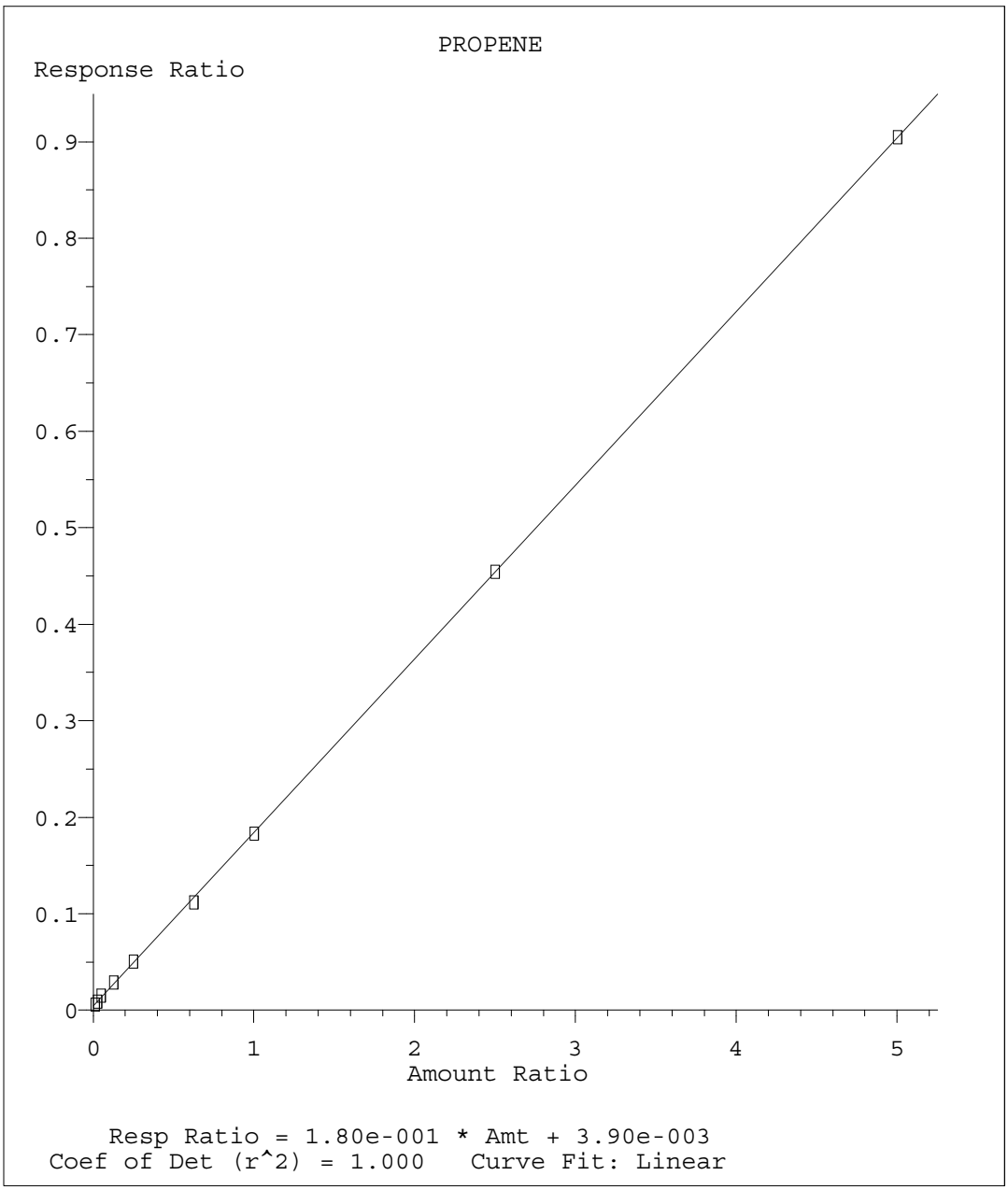


Method Name: C:\msdchem\1\methods\V821I16N.M



Method Name: C:\msdchem\1\methods\V821I16N.M



Method Name: C:\msdchem\1\methods\V821I16N.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916B 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : RL VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:47:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	543233	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	998836	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	174180	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	391219	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	543233	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	998836	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	174180	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	391219	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	287182	42.1247954 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 105.31%		
46) a,a,a-Trifluorotoluene	4.567	146	535263	43.0378034 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.59%		
50) TOLUENE-D8	5.014	98	1374899	42.9708598 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.43%		
68) 4-BROMOFLUOROBENZENE	6.850	95	474143	41.9908913 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 104.98%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6721750	No Calib	
3) PROPENE	1.448	41	15623	5.5272897 ppb	99
4) DICHLORODIFLUOROMETHANE	1.483	85	45367	5.4604484 ppb #	86
5) CHLOROMETHANE	1.628	50	71471	5.2981919 ppb	97
6) VINYL CHLORIDE	1.686	62	71037	5.0036278 ppb	98
7) 1,3-BUTADIENE	1.699	39	51635	4.9660574 ppb	99
8) BROMOMETHANE	1.908	94	47232	5.9845712 ppb	99
9) CHLOROETHANE	1.991	66	13777	6.0267488 ppb	87
10) TRICHLOROFLUOROMETHANE	2.081	101	60617	5.0245726 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	88421	4.8670834 ppb	99
12) ETHYL ETHER	2.264	59	43571	5.3390748 ppb	98
13) ACROLEIN	2.576	56	37235	26.2032583 ppb	97
14) 1,1-DICHLOROETHENE	2.390	61	69621	4.8548004 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	46197	4.9508501 ppb	98
16) ACETONE	2.737	43	69309	26.4629804 ppb	97
17) IODOMETHANE	2.477	142	264637	22.4034799 ppb	99
18) CARBON DISULFIDE	2.419	76	156010	4.7206097 ppb	98
19) METHYLENE CHLORIDE	2.715	84	53390	4.8787907 ppb	98
20) ACRYLONITRILE	3.162	53	82845	25.5384141 ppb	96
21) n-Hexane	2.843	56	60512	4.9797257 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.805	96	48504	4.8354734 ppb	99
23) METHYL TERT-BUTYL ETHER	2.856	73	145063	5.1119926 ppb	96
24) 1,1-DICHLOROETHANE	3.139	63	95178	4.7860898 ppb	99
25) VINYL ACETATE	3.255	43	417902	26.3415780 ppb	99
26) DI-ISOPROPYL ETHER	3.052	45	182393	4.9129247 ppb	99
27) 2,2-Dichloropropane	3.486	77	67941	4.7130119 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.428	96	49913	4.7786188 ppb	98
29) 2-BUTANONE (MEK)	3.724	72	31035	26.7756042 ppb	97
30) BROMOCHLOROMETHANE	3.535	130	25529	4.9897693 ppb	95
31) TETRAHYDROFURAN	3.666	42	17109	5.3854082 ppb	93
32) CHLOROFORM	3.563	83	79576	4.7605591 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.689	97	64270	4.7031698 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	56516	4.6752613 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916B 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : RL VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:47:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.756	75	72407	4.6004661 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	252928	4.7569158 ppb		99
38)	HEPTANE	3.843	43	109545	5.1282404 ppb		98
39)	BENZENE	3.891	78	217015	4.8037435 ppb		94
40)	1,2-DICHLOROETHANE	3.998	62	59829	5.0281182 ppb		99
42)	TRICHLOROETHENE	4.210	130	45635	4.7070316 ppb		96
43)	1,2-DICHLOROPROPANE	4.502	62	37907	4.6792354 ppb		96
44)	DIBROMOMETHANE	4.451	93	24973	5.0862113 ppb		96
45)	BROMODICHLOROMETHANE	4.528	83	56679	4.7902378 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.843	63	67975	24.5107162 ppb		98
48)	CIS-1,3-DICHLOROPROPENE	4.898	75	74487	4.7775382 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.255	58	100345	26.7212070 ppb		98
51)	TOLUENE	5.046	91	227112	4.7712706 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.293	110	13582	4.4418289 ppb		86
54)	1,1,2-TRICHLOROETHANE	5.396	97	39301	4.7934217 ppb		99
55)	TETRACHLOROETHENE	5.297	164	33151	4.6733339 ppb		97
56)	1,3-Dichloropropane	5.576	76	78749	4.8014038 ppb		100
57)	2-HEXANONE	5.792	58	91282	25.7902211 ppb		96
58)	CHLORODIBROMOMETHANE	5.518	129	33115	4.5863458 ppb		98
59)	1,2-DIBROMOETHANE	5.686	107	34323	4.7980681 ppb		98
60)	CHLOROBENZENE	6.026	112	125874	4.4807246 ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.055	133	34017	4.6008611 ppb	#	99
62)	ETHYLBENZENE	6.026	106	71108	4.5956986 ppb		100
63)	M&P-XYLENE	6.123	106	172216	9.0474615 ppb		99
64)	O-XYLENE	6.422	106	83488	4.6137607 ppb		97
65)	STYRENE	6.457	104	125389	4.3438548 ppb		99
66)	Bromoform	6.486	173	16748	4.3314333 ppb		98
67)	Isopropylbenzene	6.634	105	221673	4.5845049 ppb		100
69)	Bromobenzene	6.933	77	102729	4.5518605 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	51778	4.8661093 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.087	110	14265	4.9589703 ppb		89
72)	TRANS-1,4-DICHLORO-2-B...	7.113	53	12163	4.5690643 ppb	#	87
73)	n-Propylbenzene	6.933	91	273916	4.5637027 ppb		100
74)	4-ETHYLTOLUENE	7.010	105	216656	4.5801072 ppb		98
75)	2-Chlorotoluene	7.062	126	49681	4.6437683 ppb		97
76)	4-Chlorotoluene	7.181	91	157577	4.6391815 ppb		99
77)	1,3,5-Trimethylbenzene	7.068	105	186385	4.5519079 ppb		100
78)	tert-Butylbenzene	7.309	119	148817	4.4794214 ppb		98
79)	1,2,4-Trimethylbenzene	7.364	105	181234	4.6545016 ppb		96
80)	sec-Butylbenzene	7.444	105	247336	4.4732776 ppb		99
81)	1,3-DICHLOROBENZENE	7.628	146	84388	4.5407668 ppb		99
82)	p-Isopropyltoluene	7.547	119	196250	4.6140318 ppb		99
83)	DICYCLOPENTADIENE	7.544	66	261648	4.6776309 ppb		99
85)	1,4-DICHLOROBENZENE	7.692	146	87559	4.6526219 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	190893	4.8861670 ppb		99
87)	1,2-DICHLOROBENZENE	8.020	146	79401	4.8407846 ppb		99
88)	n-Butylbenzene	7.875	91	189972	4.9414171 ppb		100
89)	1,2-Dibromo-3-chloropr...	8.644	157	6686	5.0589431 ppb		96
90)	1,2,4-Trichlorobenzene	9.193	180	44327	4.9911251 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.165	225	26611	4.9751681 ppb		95
92)	Naphthalene	9.457	128	93199	6.4012113 ppb		99
93)	1,2,3-Trichlorobenzene	9.611	180	39211	4.9905948 ppb		96
94)	1-Methylnaphthalene	10.335	142	8350	No Calib	#	
95)	2-Methylnaphthalene	10.457	142	12783	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916B 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : RL VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:47:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

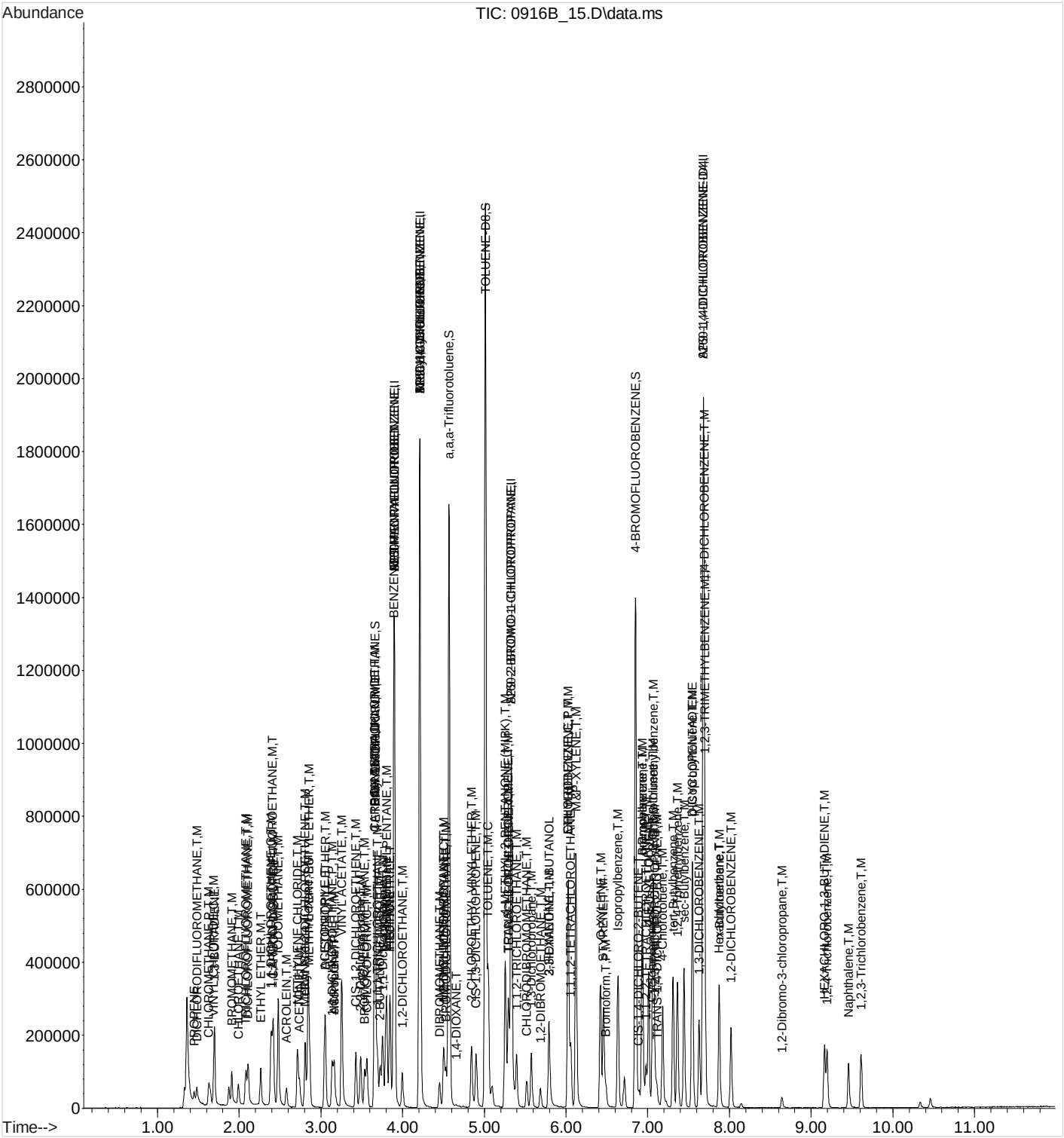
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	5338	0.8984367 ppb #	74
101)	ACETONITRILE	3.049	41	26840	23.0492190 ppb #	37
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.162	53	82845	8.6132003 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	3.846	54	754	0.5884820 ppb #	1
107)	Ethyl Acetate	3.663	43	3209	0.3860690 ppb #	64
108)	METHACRYLONITRILE	3.898	67	1587	0.3998470 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.801	59	1776	0.4563066 ppb #	1
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	3.891	73	3862	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.210	83	12140	0.5887014 ppb #	43
117)	2-nitropropane	5.174	43	537	N.D.	
118)	METHYL METHACRYLATE	4.502	41	27376	3.1480743 ppb #	16
119)	1,4-DIOXANE	4.657	88	2643	25.3944028 ppb #	61
120)	n-octane	4.901	85	1078	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	5.792	57	30009	50.0581113 ppb #	46
123)	ETHYL METHACRYLATE	5.261	69	1695	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	952	0.3580103 ppb #	13
125)	Cyclohexanone	7.049	55	1872	0.8454129 ppb #	23
126)	PENTACHLOROETHANE	7.364	117	5826	No Calib #	
127)	Hexachloroethane	7.869	117	2228	0.4095130 ppb #	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916B 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : RL VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:47:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 23.D
Acq On : 16 Sep 2014 11:39 pm
Operator : 644
Sample : SSCV VMS 25 PPB 14I15511
Misc : water ISSURR14G23644
ALS Vial : 15 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:24:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:24:07 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	579024	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1054770	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	184848	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	446551	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	579024	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1054770	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	184846	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	446551	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	262995	36.1924231 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 90.48%		
46) a,a,a-Trifluorotoluene	4.566	146	548210	41.7413263 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.35%		
50) TOLUENE-D8	5.013	98	1366999	40.4583216 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.15%		
68) 4-BROMOFLUOROBENZENE	6.849	95	482820	40.2916016 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.73%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8832630	No Calib	
3) PROPENE	1.448	41	59303	21.9019700 ppb	99
4) DICHLORODIFLUOROMETHANE	1.480	85	169320	19.1199207 ppb	98
5) CHLOROMETHANE	1.624	50	290782	20.8561974 ppb	98
6) VINYL CHLORIDE	1.686	62	283817	18.7554882 ppb	99
7) 1,3-BUTADIENE	1.698	39	206379	18.6218419 ppb	97
8) BROMOMETHANE	1.907	94	171848	25.4028306 ppb	99
9) CHLOROETHANE	1.988	66	52360	21.4890714 ppb	99
10) TRICHLOROFLUOROMETHANE	2.081	101	243732	18.9542595 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	365829	18.8921365 ppb	99
12) ETHYL ETHER	2.261	59	160962	18.5046729 ppb	96
13) ACROLEIN	2.573	56	121186	80.0103131 ppb	99
14) 1,1-DICHLOROETHENE	2.390	61	293187	19.1807424 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	192994	19.4043630 ppb	98
16) ACETONE	2.734	43	235677	84.4220519 ppb	100
17) IODOMETHANE	2.476	142	1304783	103.6317392 ppb	99
18) CARBON DISULFIDE	2.419	76	685531	19.4608738 ppb	100
19) METHYLENE CHLORIDE	2.711	84	216710	18.5789341 ppb	100
20) ACRYLONITRILE	3.158	53	353523	102.2433039 ppb	100
21) n-Hexane	2.840	56	257950	19.9153994 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.804	96	210663	19.7033145 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	588104	19.4436265 ppb	97
24) 1,1-DICHLOROETHANE	3.136	63	424294	20.0170805 ppb	99
25) VINYL ACETATE	3.251	43	1537749	90.9373660 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	786341	19.8715819 ppb	99
27) 2,2-Dichloropropane	3.486	77	304693	19.8298149 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	221590	19.9034541 ppb	99
29) 2-BUTANONE (MEK)	3.721	72	112196	90.8143509 ppb	98
30) BROMOCHLOROMETHANE	3.534	130	110271	20.2207637 ppb	95
31) TETRAHYDROFURAN	3.663	42	62093	18.3369129 ppb	97
32) CHLOROFORM	3.560	83	352288	19.7725773 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	301922	20.7284439 ppb	99
35) CARBON TETRACHLORIDE	3.656	117	266618	20.6925262 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 23.D
Acq On : 16 Sep 2014 11:39 pm
Operator : 644
Sample : SSCV VMS 25 PPB 14I15511
Misc : water ISSURR14G23644
ALS Vial : 15 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:24:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:24:07 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	345948	20.6215681 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	1186404	20.9339284 ppb		100
38) HEPTANE	3.843	43	503363	22.1078589 ppb		99
39) BENZENE	3.888	78	1035094	21.4960878 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	271101	21.3754090 ppb		99
42) TRICHLOROETHENE	4.210	130	227242	22.1959675 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	184330	21.5470551 ppb		98
44) DIBROMOMETHANE	4.451	93	111078	21.4233880 ppb		99
45) BROMODICHLOROMETHANE	4.528	83	276188	22.1042668 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	270351	92.3147681 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.898	75	381094	23.1468670 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.255	58	420198	105.9621430 ppb		97
51) TOLUENE	5.045	91	1106624	22.0155970 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	73609	22.7963560 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.393	97	183799	21.1236379 ppb		98
55) TETRACHLOROETHENE	5.296	164	169484	22.5134686 ppb		96
56) 1,3-Dichloropropane	5.573	76	355634	20.4319580 ppb		100
57) 2-HEXANONE	5.788	58	391582	104.2500252 ppb		100
58) CHLORODIBROMOMETHANE	5.518	129	167380	21.8438474 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	164236	21.6338121 ppb		100
60) CHLOROBENZENE	6.023	112	616272	20.6713190 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	180845	23.0479948 ppb		98
62) ETHYLBENZENE	6.023	106	365867	22.2812652 ppb		97
63) M&P-XYLENE	6.119	106	909877	45.0421864 ppb		100
64) O-XYLENE	6.418	106	417812	21.7568216 ppb		99
65) STYRENE	6.454	104	681630	22.2509261 ppb		100
66) Bromoform	6.486	173	89737	21.8687398 ppb		98
67) Isopropylbenzene	6.634	105	1149469	22.4006402 ppb		99
69) Bromobenzene	6.933	77	511649	21.3624738 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	6.975	83	235867	20.8875401 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.084	110	63259	20.7217096 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	60484	21.4097008 ppb	#	98
73) n-Propylbenzene	6.933	91	1431720	22.4771667 ppb		100
74) 4-ETHYLTOLUENE	7.010	105	1121344	22.3371272 ppb		99
75) 2-Chlorotoluene	7.061	126	250219	22.0386014 ppb		99
76) 4-Chlorotoluene	7.180	91	811589	22.5148065 ppb		99
77) 1,3,5-Trimethylbenzene	7.068	105	973327	22.3988027 ppb		100
78) tert-Butylbenzene	7.309	119	806821	22.8839028 ppb		99
79) 1,2,4-Trimethylbenzene	7.361	105	929760	22.5002784 ppb		100
80) sec-Butylbenzene	7.444	105	1312366	22.3654181 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	434100	22.0100901 ppb		100
82) p-Isopropyltoluene	7.544	119	1029483	22.8072868 ppb		99
83) DICYCLOPENTADIENE	7.547	66	1306695	22.0123440 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	444914	20.7119939 ppb		87
86) 1,2,3-TRIMETHYLBENZENE	7.695	105	968231	21.7123163 ppb		99
87) 1,2-DICHLOROBENZENE	8.016	146	387028	20.6719311 ppb		98
88) n-Butylbenzene	7.872	91	982596	22.3916340 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	29253	19.3915581 ppb		98
90) 1,2,4-Trichlorobenzene	9.193	180	210570	20.7718648 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	121805	19.9508109 ppb		96
92) Naphthalene	9.454	128	443735	18.0298719 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	173896	19.3902255 ppb		99
94) 1-Methylnaphthalene	10.325	142	109689	No Calib		
95) 2-Methylnaphthalene	10.454	142	108038	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 23.D
Acq On : 16 Sep 2014 11:39 pm
Operator : 644
Sample : SSCV VMS 25 PPB 14I15511
Misc : water ISSURR14G23644
ALS Vial : 15 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:24:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:24:07 2014
Response via : Initial Calibration

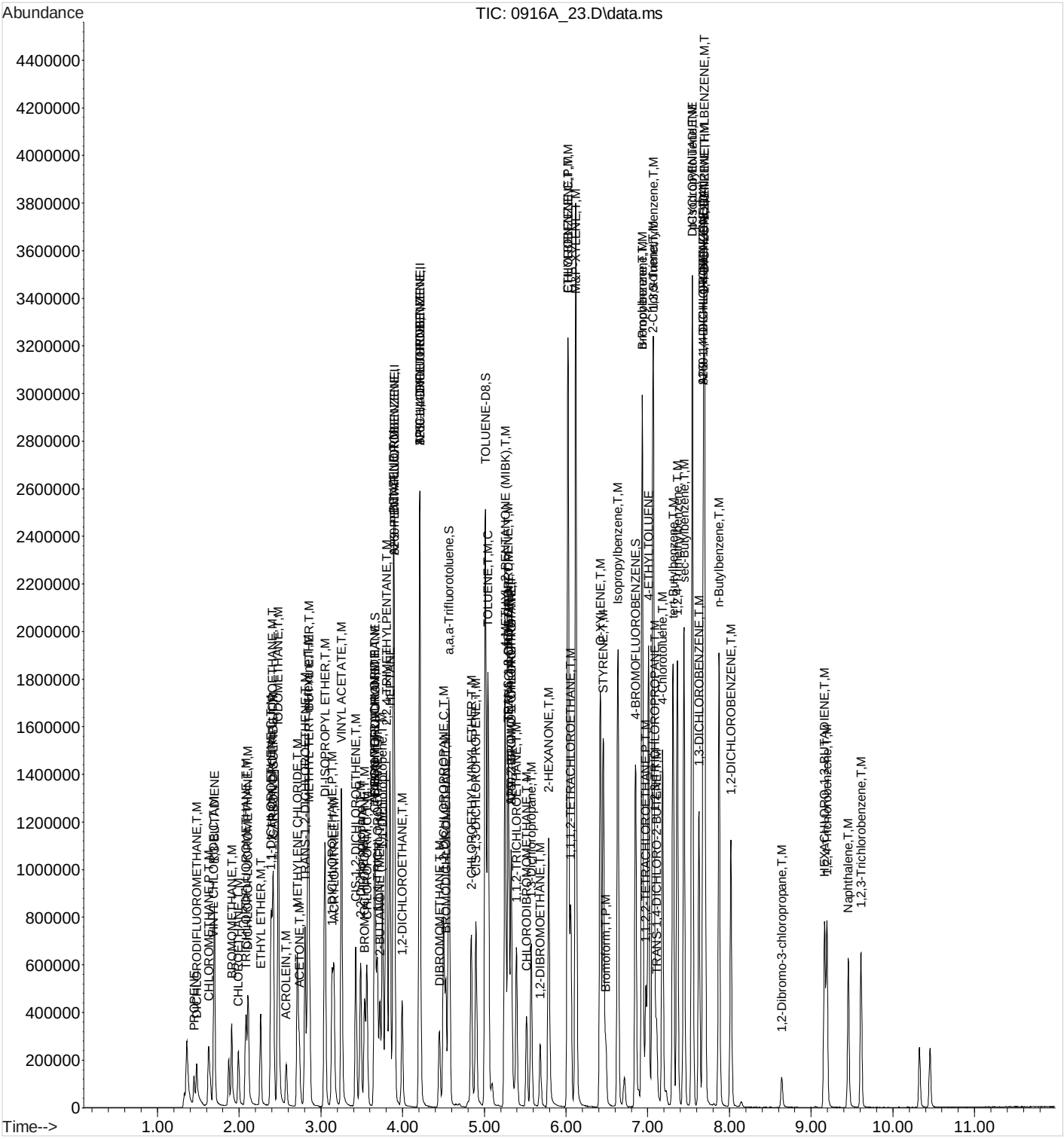
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.798	43	13294	No Calib	#
101)	ACETONITRILE	3.049	41	115726	No Calib	#
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.888	59	629	No Calib	#
104)	chloroprene	3.158	53	353523	No Calib	#
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	3.846	54	4218	No Calib	#
107)	Ethyl Acetate	3.618	43	545	No Calib	#
108)	METHACRYLONITRILE	3.894	67	1778	No Calib	#
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.801	59	1128	No Calib	#
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.994	59	1525	No Calib	#
113)	TERT-AMYL METHYL ETHER	3.888	73	16933	No Calib	#
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.210	83	17424	No Calib	#
117)	2-nitropropane	5.187	43	843	No Calib	#
118)	METHYL METHACRYLATE	4.660	41	817	No Calib	#
119)	1,4-DIOXANE	4.656	88	2679	No Calib	#
120)	n-octane	4.898	85	5131	No Calib	#
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	132140	No Calib	#
123)	ETHYL METHACRYLATE	5.255	69	7094	No Calib	#
124)	CIS-1,4-DICHLORO-2-BUTENE	6.891	53	3535	No Calib	#
125)	Cyclohexanone	7.107	55	1277	No Calib	#
126)	PENTACHLOROETHANE	7.361	117	29623	No Calib	#
127)	Hexachloroethane	8.007	117	1467	No Calib	#

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 23.D
Acq On : 16 Sep 2014 11:39 pm
Operator : 644
Sample : SSCV VMS 25 PPB 14I15511
Misc : water ISSURR14G23644
ALS Vial : 15 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:24:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:24:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 35.D
Acq On : 17 Sep 2014 5:02 am
Operator : 644
Sample : SSCV VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 27 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:39:32 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	559662	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1039196	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	178206	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	363932	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	559662	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1039196	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	178206	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	363932	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	244981	34.8797462 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 87.20%		
46) a,a,a-Trifluorotoluene	4.570	146	542588	41.9324056 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.83%		
50) TOLUENE-D8	5.013	98	1358540	40.8105453 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.03%		
68) 4-BROMOFLUOROBENZENE	6.849	95	423244	36.6363774 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 91.59%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-15187037	No Calib	
3) PROPENE	1.444	41	2909	N.D.	
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.647	50	608	0.4733038 ppb #	49
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	1.907	94	540	Below Cal #	12
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	2.261	59	678	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	2.737	43	5981	2.2165792 ppb #	87
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.419	76	1998	N.D.	
19) METHYLENE CHLORIDE	2.711	84	4835	0.4288536 ppb	87
20) ACRYLONITRILE	3.123	53	493731	147.7332807 ppb #	50
21) n-Hexane	2.840	56	569	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	2.856	73	1033	N.D.	
24) 1,1-DICHLOROETHANE	3.123	63	7091	0.3461083 ppb #	43
25) VINYL ACETATE	3.245	43	25016	1.5305430 ppb #	74
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	3.544	77	1933	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	3.663	72	553	0.4630981 ppb #	1
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	3.666	42	1628	0.4974034 ppb #	80
32) CHLOROFORM	3.550	83	8465	0.4915448 ppb #	48
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\091614a\
Data File : 0916A 35.D
Acq On : 17 Sep 2014 5:02 am
Operator : 644
Sample : SSCV VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 27 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:39:32 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 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	3.798	57	316269	5.7735842 ppb #	1
38) HEPTANE	3.846	43	567	N.D.	
39) BENZENE	3.888	78	2089	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	4.210	130	7776	0.7709071 ppb #	68
43) 1,2-DICHLOROPROPANE	4.566	62	9979	1.1839660 ppb #	1
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	4.595	83	1612	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 (...	5.174	58	1756	0.4494502 ppb #	1
51) TOLUENE	5.046	91	3883	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.361	97	2719	0.3241360 ppb #	1
55) TETRACHLOROETHENE	5.296	164	264213	36.4049402 ppb	97
56) 1,3-Dichloropropane	5.579	76	712	N.D.	
57) 2-HEXANONE	5.766	58	1943	0.5365605 ppb #	1
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	6.036	112	3933	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	6.062	133	3738	0.4941495 ppb #	96
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.136	106	1415	N.D.	
64) O-XYLENE	6.435	106	610	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	6.939	77	885	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.126	83	20470	1.8803140 ppb #	25
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	7.126	53	12560	4.6116057 ppb #	50
73) n-Propylbenzene	6.939	91	941	N.D.	
74) 4-ETHYLTOLUENE	7.007	105	833	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.116	91	700	N.D.	
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	7.338	119	37659	1.1079346 ppb #	32
79) 1,2,4-Trimethylbenzene	7.377	105	1821	N.D.	
80) sec-Butylbenzene	7.377	105	1821	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	0.000		0	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	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	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 35.D
Acq On : 17 Sep 2014 5:02 am
Operator : 644
Sample : SSCV VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 27 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:39:32 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

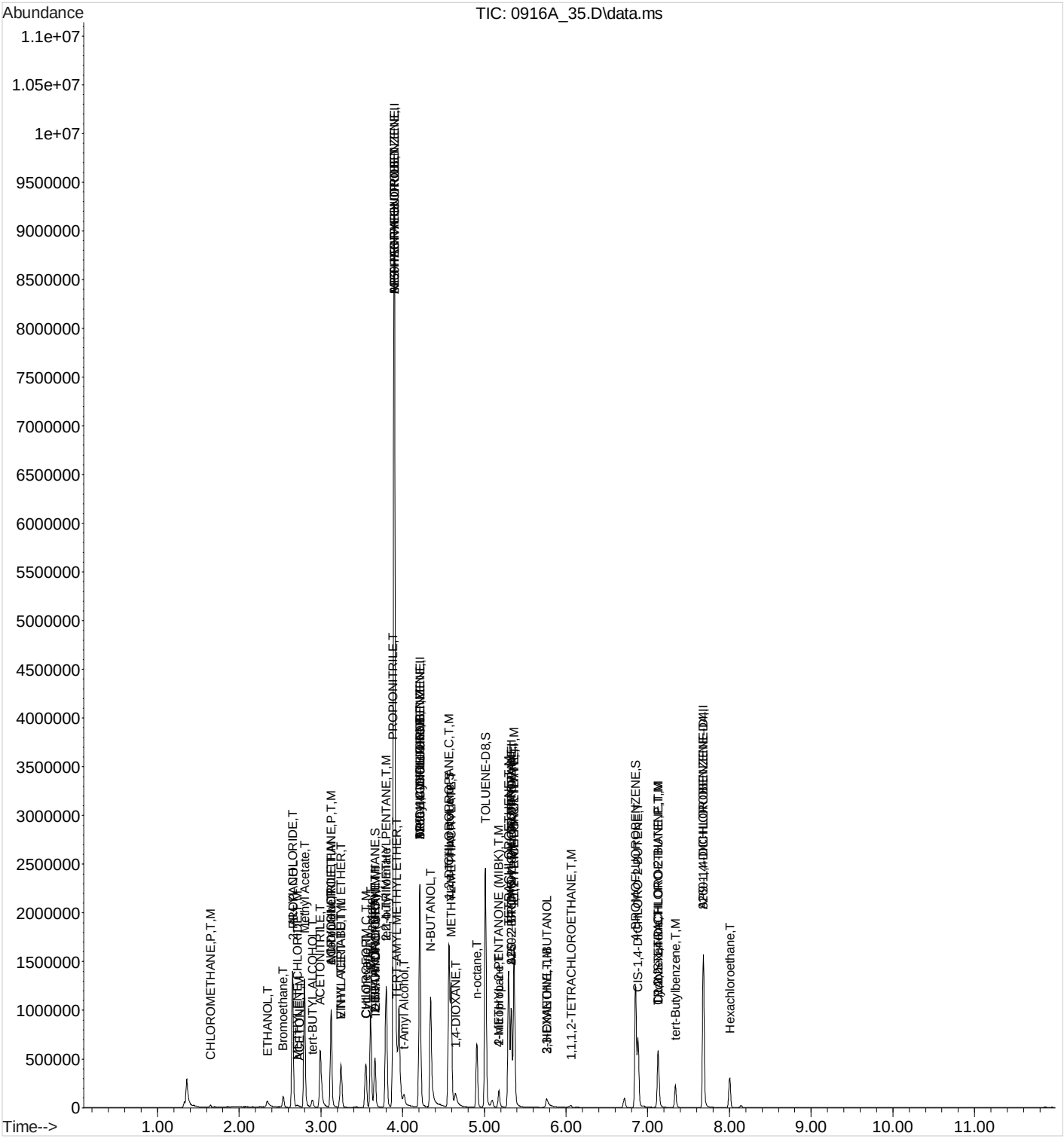
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.345	45	85189	884.5190577 ppb	#	96
98)	Bromoethane	2.538	108	64211	10.0643038 ppb		100
99)	2-PROPANOL	2.657	45	27708	49.3851852 ppb	#	88
100)	Methyl Acetate	2.798	43	1241508	202.8237385 ppb	#	100
101)	ACETONITRILE	2.991	41	613519	511.4015546 ppb		100
102)	ALLYL CHLORIDE	2.653	76	250053	51.6189773 ppb		98
103)	tert-BUTYL ALCOHOL	2.895	59	64803	51.7132837 ppb		94
104)	chloroprene	3.123	53	493731	49.8251900 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.245	59	312196	10.2477981 ppb		99
106)	PROPIONITRILE	3.882	54	677135	512.9764830 ppb		98
107)	Ethyl Acetate	3.608	43	844574	98.6264242 ppb		99
108)	METHACRYLONITRILE	3.898	67	2117671	517.8878593 ppb		100
109)	Cyclohexane	3.550	56	179999	10.1550924 ppb		98
110)	tert-butyl formate	3.798	59	370096	92.2971888 ppb		98
111)	ISOBUTANOL	3.956	41	408381	No Calib	#	
112)	t-Amyl Alcohol	4.017	59	41636	54.1564554 ppb		99
113)	TERT-AMYL METHYL ETHER	3.930	73	305611	10.8335262 ppb	#	99
115)	N-BUTANOL	4.341	56	618319	1962.5681902 ppb		98
116)	Methyl Cyclohexane	4.210	83	208988	9.7407964 ppb		99
117)	2-nitropropane	5.177	43	101025	52.8142026 ppb		98
118)	METHYL METHACRYLATE	4.592	41	505847	55.9101780 ppb		99
119)	1,4-DIOXANE	4.647	88	113519	1048.3495604 ppb		97
120)	n-octane	4.907	85	108965	10.6413132 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	64504	98.8521053 ppb		97
123)	ETHYL METHACRYLATE	5.364	69	738826	55.6665983 ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	144926	53.2697683 ppb		98
125)	Cyclohexanone	7.126	55	237812	104.9718225 ppb		97
126)	PENTACHLOROETHANE	7.338	117	40183	No Calib		
127)	Hexachloroethane	8.004	117	55031	9.8863467 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 35.D
Acq On : 17 Sep 2014 5:02 am
Operator : 644
Sample : SSCV VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 27 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:39:32 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 11.D
Acq On : 16 Sep 2014 6:09 pm
Operator : 644
Sample : STD VMS 0.25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:10 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	528552	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	977722	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	166669	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	377641	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	261632	38.6756344 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.69%		
46) a,a,a-Trifluorotoluene	4.566	146	500974	41.0566978 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.64%		
50) TOLUENE-D8	5.013	98	1279819	40.3423640 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.86%		
68) 4-BROMOFLUOROBENZENE	6.849	95	427790	39.6994591 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.25%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7660833m	Below Cal	
3) PROPENE	1.444	41	1768	0.7501689 ppb	95
4) DICHLORODIFLUOROMETHANE	1.480	85	1863	N.D.	
5) CHLOROMETHANE	1.631	50	3403	N.D.	
6) VINYL CHLORIDE	1.686	62	2059	N.D.	
7) 1,3-BUTADIENE	1.698	39	2244	N.D.	
8) BROMOMETHANE	1.911	94	4720	0.8113176 ppb	90
9) CHLOROETHANE	1.991	66	790	0.3632532 ppb	91
10) TRICHLOROFLUOROMETHANE	2.084	101	2415	N.D.	
11) DICHLOROFLUOROMETHANE	2.110	67	3778	N.D.	
12) ETHYL ETHER	2.264	59	1550	N.D.	
13) ACROLEIN	2.570	56	730	0.6214078 ppb #	1
14) 1,1-DICHLOROETHENE	2.390	61	3144	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	1942	N.D.	
16) ACETONE	2.740	43	4832	2.3075253 ppb	97
17) IODOMETHANE	2.480	142	3652	0.3253717 ppb #	85
18) CARBON DISULFIDE	2.422	76	7362	N.D.	
19) METHYLENE CHLORIDE	2.714	84	3628	0.4006404 ppb	89
20) ACRYLONITRILE	3.165	53	2703	0.8646512 ppb	93
21) n-Hexane	2.849	56	2209	N.D.	
22) TRANS-1,2-DICHLOROETHENE	2.808	96	2055	N.D.	
23) METHYL TERT-BUTYL ETHER	2.859	73	5398	N.D.	
24) 1,1-DICHLOROETHANE	3.139	63	4337	N.D.	
25) VINYL ACETATE	3.261	43	14758	0.9365874 ppb #	95
26) DI-ISOPROPYL ETHER	3.052	45	6924	N.D.	
27) 2,2-Dichloropropane	3.486	77	2973	N.D.	
28) CIS-1,2-DICHLOROETHENE	3.431	96	1784	N.D.	
29) 2-BUTANONE (MEK)	3.743	72	738	0.6768969 ppb #	22
30) BROMOCHLOROMETHANE	3.541	130	899	N.D.	
31) TETRAHYDROFURAN	3.669	42	1353	0.4760119 ppb #	62
32) CHLOROFORM	3.563	83	3604	N.D.	
34) 1,1,1-TRICHLOROETHANE	3.692	97	2402	N.D.	
35) CARBON TETRACHLORIDE	3.660	117	1893	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 11.D
Acq On : 16 Sep 2014 6:09 pm
Operator : 644
Sample : STD VMS 0.25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:10 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	3.759	75	3004	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	10680	N.D.	
38) HEPTANE	3.846	43	3411	N.D.	
39) BENZENE	3.894	78	9018	N.D.	
40) 1,2-DICHLOROETHANE	3.997	62	2415	N.D.	
42) TRICHLOROETHENE	4.213	130	2007	N.D.	
43) 1,2-DICHLOROPROPANE	4.512	62	1352	N.D.	
44) DIBROMOMETHANE	4.457	93	870	N.D.	
45) BROMODICHLOROMETHANE	4.534	83	2004	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	4.859	63	2088	0.7809884 ppb #	50
48) CIS-1,3-DICHLOROPROPENE	4.907	75	2899	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.267	58	3102	0.8480324 ppb	92
51) TOLUENE	5.046	91	9580	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.399	97	1799	N.D.	
55) TETRACHLOROETHENE	5.293	164	1342	N.D.	
56) 1,3-Dichloropropane	5.576	76	3677	N.D.	
57) 2-HEXANONE	5.824	58	986	N.D.	
58) CHLORODIBROMOMETHANE	5.521	129	1084	N.D.	
59) 1,2-DIBROMOETHANE	5.695	107	1565	N.D.	
60) CHLOROBENZENE	6.033	112	5947	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	6.062	133	1333	N.D.	
62) ETHYLBENZENE	6.039	106	2764	N.D.	
63) M&P-XYLENE	6.126	106	6658	0.3685726 ppb	91
64) O-XYLENE	6.428	106	3428	N.D.	
65) STYRENE	6.480	104	4502	N.D.	
66) Bromoform	6.489	173	520	N.D.	
67) Isopropylbenzene	6.640	105	8359	N.D.	
69) Bromobenzene	6.936	77	4533	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	6.981	83	1974	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	6.943	91	10974	N.D.	
74) 4-ETHYLTOLUENE	7.020	105	8632	N.D.	
75) 2-Chlorotoluene	7.068	126	1938	N.D.	
76) 4-Chlorotoluene	7.190	91	5838	N.D.	
77) 1,3,5-Trimethylbenzene	7.074	105	7781	N.D.	
78) tert-Butylbenzene	7.309	119	5476	N.D.	
79) 1,2,4-Trimethylbenzene	7.370	105	6395	N.D.	
80) sec-Butylbenzene	7.447	105	9994	N.D.	
81) 1,3-DICHLOROBENZENE	7.637	146	3400	N.D.	
82) p-Isopropyltoluene	7.547	119	6816	N.D.	
83) DICYCLOPENTADIENE	7.547	66	9734	N.D.	
85) 1,4-DICHLOROBENZENE	7.689	146	4054	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	6966	N.D.	
87) 1,2-DICHLOROBENZENE	8.033	146	3149	N.D.	
88) n-Butylbenzene	7.885	91	6142	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.216	180	1032	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	9.161	225	900	N.D.	
92) Naphthalene	9.476	128	666	N.D.	
93) 1,2,3-Trichlorobenzene	9.621	180	975	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 11.D
Acq On : 16 Sep 2014 6:09 pm
Operator : 644
Sample : STD VMS 0.25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:10 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

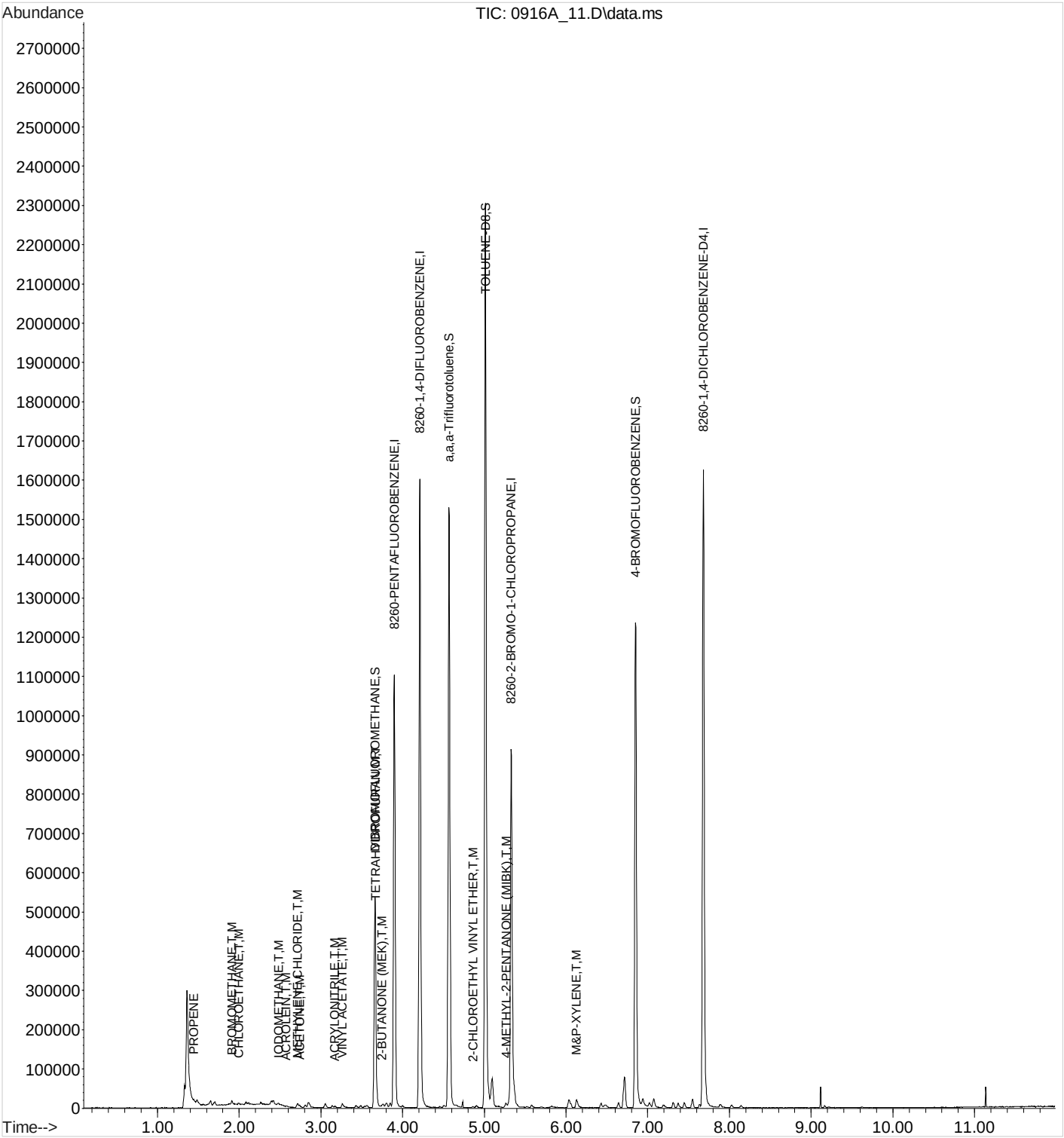
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		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.	
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.	
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\091614a\
Data File : 0916A 11.D
Acq On : 16 Sep 2014 6:09 pm
Operator : 644
Sample : STD VMS 0.25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:10 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 12.D
Acq On : 16 Sep 2014 6:30 pm
Operator : 644
Sample : STD VMS 0.5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	468054	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	856301	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	141737	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	331119	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	229969	38.3890744 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 95.97%		
46) a,a,a-Trifluorotoluene	4.570	146	437186	40.9094849 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.27%		
50) TOLUENE-D8	5.013	98	1117075	40.2053696 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.51%		
68) 4-BROMOFLUOROBENZENE	6.849	95	373085	40.7130223 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.78%		

Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6637216m	Below Cal	
3) PROPENE	1.448	41	2501	1.1983460 ppb	97
4) DICHLORODIFLUOROMETHANE	1.480	85	4123	0.6505940 ppb	95
5) CHLOROMETHANE	1.628	50	7803	0.7424557 ppb	98
6) VINYL CHLORIDE	1.686	62	6776	0.6421858 ppb #	84
7) 1,3-BUTADIENE	1.698	39	5414	0.7012264 ppb	89
8) BROMOMETHANE	1.911	94	9794	1.9010817 ppb	96
9) CHLOROETHANE	1.991	66	1802	0.9356834 ppb #	67
10) TRICHLOROFLUOROMETHANE	2.084	101	6393	0.7001766 ppb	95
11) DICHLOROFLUOROMETHANE	2.107	67	9316	0.6775171 ppb	100
12) ETHYL ETHER	2.264	59	4273	0.6789400 ppb	92
13) ACROLEIN	2.576	56	3623	3.4826827 ppb	89
14) 1,1-DICHLOROETHENE	2.390	61	7239	0.6561727 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	4827	0.6615399 ppb	96
16) ACETONE	2.737	43	8142	4.3907873 ppb	95
17) IODOMETHANE	2.476	142	9876	0.9936234 ppb	99
18) CARBON DISULFIDE	2.419	76	16614	0.6567991 ppb #	96
19) METHYLENE CHLORIDE	2.711	84	6348	0.7916189 ppb	98
20) ACRYLONITRILE	3.168	53	6934	2.5047854 ppb	94
21) n-Hexane	2.843	56	5973	0.6289811 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.808	96	4535	0.5920803 ppb	98
23) METHYL TERT-BUTYL ETHER	2.859	73	13224	0.5917577 ppb	97
24) 1,1-DICHLOROETHANE	3.136	63	9299	0.5864859 ppb	98
25) VINYL ACETATE	3.258	43	32763	2.3479900 ppb	99
26) DI-ISOPROPYL ETHER	3.052	45	17475	0.5841089 ppb	94
27) 2,2-Dichloropropane	3.486	77	6634	0.5454878 ppb	95
28) CIS-1,2-DICHLOROETHENE	3.431	96	5567	0.6396941 ppb	90
29) 2-BUTANONE (MEK)	3.734	72	2138	2.2144488 ppb	83
30) BROMOCHLOROMETHANE	3.538	130	2322	0.5394343 ppb	89
31) TETRAHYDROFURAN	3.666	42	2329	0.9252972 ppb #	78
32) CHLOROFORM	3.566	83	7420	0.5285842 ppb	92
34) 1,1,1-TRICHLOROETHANE	3.689	97	5937	0.5003887 ppb	99
35) CARBON TETRACHLORIDE	3.660	117	5672	0.5358306 ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 12.D
Acq On : 16 Sep 2014 6:30 pm
Operator : 644
Sample : STD VMS 0.5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.756	75	7249	0.5362656 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	23383	0.5168918 ppb		94
38) HEPTANE	3.846	43	8404	0.4380757 ppb		94
39) BENZENE	3.891	78	20470	0.5357285 ppb	#	54
40) 1,2-DICHLOROETHANE	4.001	62	5278	0.5156370 ppb	#	92
42) TRICHLOROETHENE	4.210	130	4185	0.5215671 ppb		94
43) 1,2-DICHLOROPROPANE	4.505	62	3822	0.5558406 ppb		96
44) DIBROMOMETHANE	4.451	93	2519	0.6179961 ppb	#	80
45) BROMODICHLOROMETHANE	4.531	83	5411	0.5308006 ppb	#	84
47) 2-CHLOROETHYL VINYL ETHER	4.849	63	4374	1.8680213 ppb	#	93
48) CIS-1,3-DICHLOROPROPENE	4.904	75	5872	0.4222223 ppb	#	96
49) 4-METHYL-2-PENTANONE (...	5.264	58	7995	2.4956176 ppb		96
51) TOLUENE	5.046	91	23532	0.6036429 ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.296	110	1055	0.3986645 ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.396	97	3575	0.5865350 ppb		98
55) TETRACHLOROETHENE	5.300	164	3174	0.5963937 ppb		92
56) 1,3-Dichloropropane	5.579	76	7764	0.6334147 ppb		98
57) 2-HEXANONE	5.808	58	4614	1.6321126 ppb	#	60
58) CHLORODIBROMOMETHANE	5.515	129	3067	0.5473518 ppb		97
59) 1,2-DIBROMOETHANE	5.692	107	2985	0.5307689 ppb		96
60) CHLOROBENZENE	6.029	112	13075	0.6206581 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	2959	0.4878949 ppb	#	100
62) ETHYLBENZENE	6.033	106	6488	0.5287668 ppb		91
63) M&P-XYLENE	6.129	106	15452	1.0058555 ppb		88
64) O-XYLENE	6.425	106	7822	0.5593441 ppb		99
65) STYRENE	6.467	104	11762	0.5032735 ppb		99
66) Bromoform	6.489	173	1316	0.4240538 ppb		96
67) Isopropylbenzene	6.640	105	20526	0.5300210 ppb		98
69) Bromobenzene	6.936	77	9959	0.5775826 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	6.981	83	5155	0.6374266 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.087	110	539	N.D.		
72) TRANS-1,4-DICHLORO-2-B...	7.123	53	1018	0.4902749 ppb	#	27
73) n-Propylbenzene	6.939	91	25902	0.5315777 ppb		98
74) 4-ETHYLTOLUENE	7.013	105	20486	0.5378123 ppb		96
75) 2-Chlorotoluene	7.065	126	4751	0.5600653 ppb		88
76) 4-Chlorotoluene	7.190	91	14714	0.5349708 ppb		99
77) 1,3,5-Trimethylbenzene	7.074	105	16908	0.5186712 ppb		92
78) tert-Butylbenzene	7.312	119	14032	0.5184266 ppb		89
79) 1,2,4-Trimethylbenzene	7.367	105	16411	0.5212029 ppb		95
80) sec-Butylbenzene	7.447	105	24570	0.5533793 ppb	#	91
81) 1,3-DICHLOROBENZENE	7.634	146	7414	0.5032252 ppb		89
82) p-Isopropyltoluene	7.547	119	16816	0.4828118 ppb		96
83) DICYCLOPENTADIENE	7.547	66	23565	0.5175873 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	9500	0.6300329 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	17526	0.5389671 ppb		96
87) 1,2-DICHLOROBENZENE	8.026	146	7548	0.5550074 ppb		95
88) n-Butylbenzene	7.881	91	16109	0.4731563 ppb		92
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
90) 1,2,4-Trichlorobenzene	9.203	180	3067	0.4038660 ppb	#	85
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	2802	0.6405379 ppb		96
92) Naphthalene	9.473	128	2864	N.D.		
93) 1,2,3-Trichlorobenzene	9.614	180	2737	0.4237349 ppb		92
94) 1-Methylnaphthalene	0.000		0	N.D.		
95) 2-Methylnaphthalene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 12.D
Acq On : 16 Sep 2014 6:30 pm
Operator : 644
Sample : STD VMS 0.5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

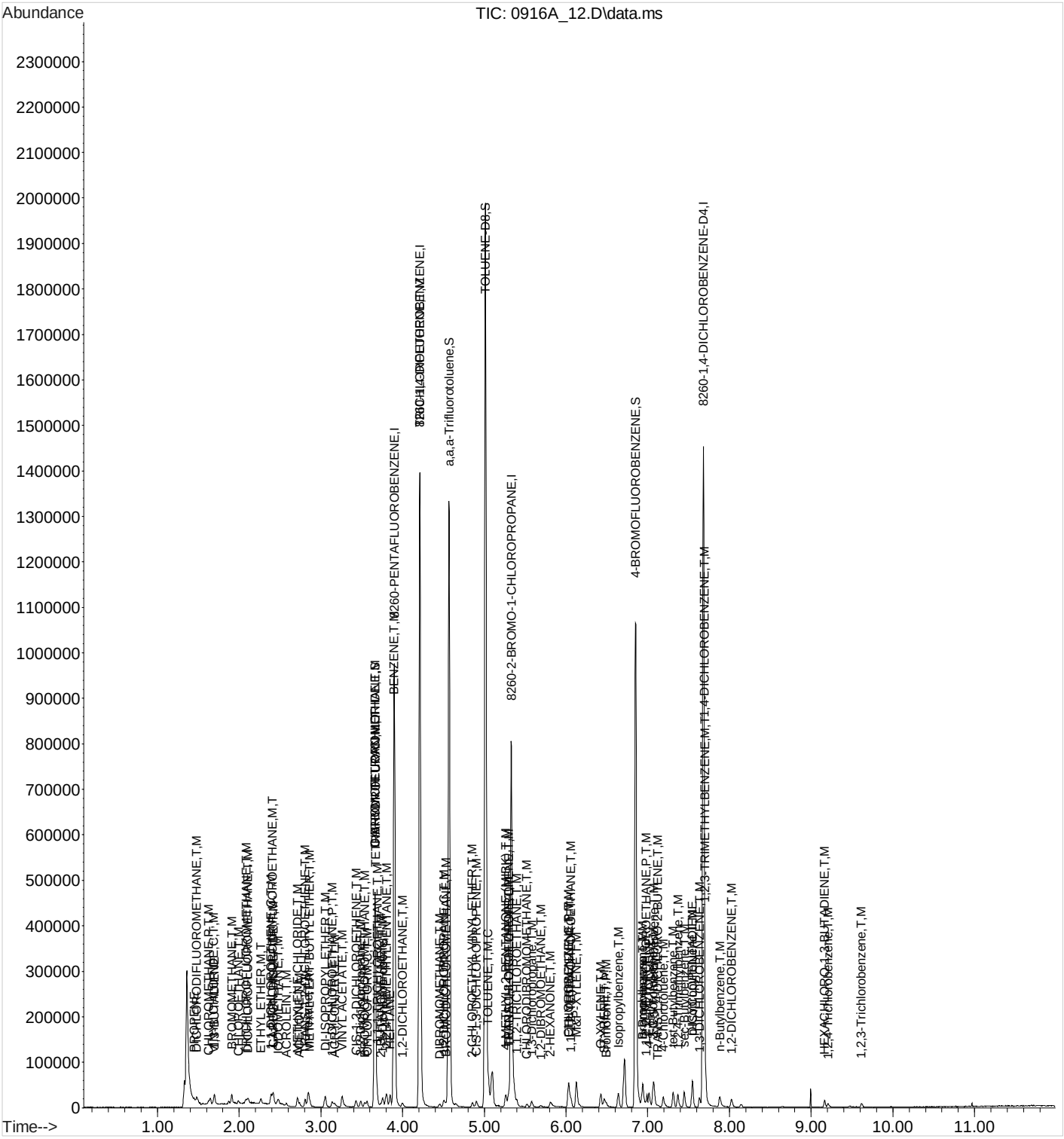
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		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.	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.	
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.	
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\091614a\
Data File : 0916A 12.D
Acq On : 16 Sep 2014 6:30 pm
Operator : 644
Sample : STD VMS 0.5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 13.D
Acq On : 16 Sep 2014 6:53 pm
Operator : 644
Sample : STD VMS 1 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:41:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	472358	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	861826	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	147974	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	346435	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.90
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	240251	40.5285123 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.32%		
46) a,a,a-Trifluorotoluene	4.566	146	451983	42.1191471 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.30%		
50) TOLUENE-D8	5.013	98	1156712	41.8989446 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.75%		
68) 4-BROMOFLUOROBENZENE	6.849	95	393575	41.0285460 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.57%		

Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -6644118	No Calib			
3) PROPENE	1.448	41	4096	1.0617062 ppb		94
4) DICHLORODIFLUOROMETHANE	1.480	85	7054	0.9764243 ppb		97
5) CHLOROMETHANE	1.628	50	16001	1.8069944 ppb	#	95
6) VINYL CHLORIDE	1.686	62	14358	1.1630790 ppb	#	98
7) 1,3-BUTADIENE	1.698	39	9713	1.0743253 ppb		95
8) BROMOMETHANE	1.907	94	18063	3.0345890 ppb		99
9) CHLOROETHANE	1.991	66	2907	1.4624746 ppb		91
10) TRICHLOROFLUOROMETHANE	2.081	101	12002	1.1441242 ppb	#	97
11) DICHLOROFLUOROMETHANE	2.107	67	18691	1.1832071 ppb		98
12) ETHYL ETHER	2.264	59	7797	1.0987803 ppb		98
13) ACROLEIN	2.576	56	6777	5.4847432 ppb		92
14) 1,1-DICHLOROETHENE	2.390	61	13366	1.0718832 ppb		92
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	8620	1.0624002 ppb	#	94
16) ACETONE	2.737	43	14964	6.5707008 ppb		98
17) IODOMETHANE	2.477	142	29713	2.8928525 ppb		97
18) CARBON DISULFIDE	2.419	76	30411	1.0582572 ppb	#	94
19) METHYLENE CHLORIDE	2.711	84	11749	1.2347187 ppb		99
20) ACRYLONITRILE	3.165	53	15172	5.3787991 ppb		95
21) n-Hexane	2.840	56	12044	1.1398548 ppb		90
22) TRANS-1,2-DICHLOROETHENE	2.808	96	9890	1.1338944 ppb		91
23) METHYL TERT-BUTYL ETHER	2.856	73	27356	1.1086667 ppb		99
24) 1,1-DICHLOROETHANE	3.139	63	18930	1.0947369 ppb		98
25) VINYL ACETATE	3.258	43	77809	5.6404278 ppb		100
26) DI-ISOPROPYL ETHER	3.052	45	34019	1.0538247 ppb		99
27) 2,2-Dichloropropane	3.486	77	12504	0.9975403 ppb		97
28) CIS-1,2-DICHLOROETHENE	3.428	96	9430	1.0382819 ppb		96
29) 2-BUTANONE (MEK)	3.731	72	6049	6.0018617 ppb		78
30) BROMOCHLOROMETHANE	3.538	130	4834	1.0865962 ppb		99
31) TETRAHYDROFURAN	3.669	42	4416	1.5985931 ppb	#	85
32) CHLOROFORM	3.563	83	16005	1.1011498 ppb		99
34) 1,1,1-TRICHLOROETHANE	3.692	97	13087	1.1013804 ppb		98
35) CARBON TETRACHLORIDE	3.660	117	11061	1.0523101 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 13.D
Acq On : 16 Sep 2014 6:53 pm
Operator : 644
Sample : STD VMS 1 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:41:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.756	75	15404	1.1255626 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	49353	1.0674732 ppb		97
38) HEPTANE	3.846	43	20016	1.0776258 ppb		97
39) BENZENE	3.891	78	42903	1.0921759 ppb	#	78
40) 1,2-DICHLOROETHANE	3.994	62	11200	1.0824968 ppb		95
42) TRICHLOROETHENE	4.210	130	9309	1.1128245 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	7757	1.1097467 ppb		98
44) DIBROMOMETHANE	4.454	93	4475	1.0563098 ppb		95
45) BROMODICHLOROMETHANE	4.531	83	11260	1.1029298 ppb		95
47) 2-CHLOROETHYL VINYL ETHER	4.849	63	11992	5.0115608 ppb	#	96
48) CIS-1,3-DICHLOROPROPENE	4.901	75	13504	1.0038312 ppb	#	99
49) 4-METHYL-2-PENTANONE (...	5.261	58	17766	5.4830801 ppb		96
51) TOLUENE	5.046	91	46061	1.1215068 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.300	110	2626	0.9953307 ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.396	97	7935	1.1392049 ppb		90
55) TETRACHLOROETHENE	5.296	164	6918	1.1479517 ppb		95
56) 1,3-Dichloropropane	5.579	76	15116	1.0848581 ppb		94
57) 2-HEXANONE	5.804	58	14080	4.6825826 ppb		94
58) CHLORODIBROMOMETHANE	5.521	129	5821	0.9489701 ppb		94
59) 1,2-DIBROMOETHANE	5.689	107	5929	0.9756083 ppb		93
60) CHLOROBENZENE	6.029	112	27019	1.1321250 ppb		93
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	6322	1.0064923 ppb	#	94
62) ETHYLBENZENE	6.029	106	13537	1.0298367 ppb		100
63) M&P-XYLENE	6.126	106	34173	2.1132420 ppb		93
64) O-XYLENE	6.422	106	17057	1.1095491 ppb		100
65) STYRENE	6.467	104	22354	0.9115573 ppb		92
66) Bromoform	6.489	173	3305	1.0061275 ppb		94
67) Isopropylbenzene	6.637	105	43866	1.0678753 ppb		97
69) Bromobenzene	6.936	77	21559	1.1244428 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	6.981	83	9775	1.0813498 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.090	110	2417	0.9890295 ppb		93
72) TRANS-1,4-DICHLORO-2-B...	7.116	53	2248	0.9940214 ppb	#	44
73) n-Propylbenzene	6.939	91	54778	1.0742837 ppb		99
74) 4-ETHYLTOLUENE	7.013	105	41267	1.0268824 ppb		93
75) 2-Chlorotoluene	7.065	126	9236	1.0161949 ppb		95
76) 4-Chlorotoluene	7.187	91	29422	1.0196089 ppb		94
77) 1,3,5-Trimethylbenzene	7.071	105	36146	1.0390959 ppb		96
78) tert-Butylbenzene	7.312	119	29706	1.0525105 ppb		99
79) 1,2,4-Trimethylbenzene	7.367	105	34142	1.0321322 ppb		97
80) sec-Butylbenzene	7.444	105	50433	1.0736586 ppb		95
81) 1,3-DICHLOROBENZENE	7.631	146	16739	1.0602075 ppb		99
82) p-Isopropyltoluene	7.547	119	38218	1.0576738 ppb		99
83) DICYCLOPENTADIENE	7.547	66	47408	0.9976381 ppb		98
85) 1,4-DICHLOROBENZENE	7.692	146	17883	1.0730884 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.701	105	38111	1.1016073 ppb		99
87) 1,2-DICHLOROBENZENE	8.023	146	16374	1.1273084 ppb		97
88) n-Butylbenzene	7.878	91	34361	1.0093131 ppb		97
89) 1,2-Dibromo-3-chloropr...	8.643	157	601	0.5135303 ppb	#	6
90) 1,2,4-Trichlorobenzene	9.203	180	6961	0.8851155 ppb		95
91) HEXACHLORO-1,3-BUTADIENE	9.168	225	5170	1.0915290 ppb		91
92) Naphthalene	9.470	128	9149	3.1407608 ppb		100
93) 1,2,3-Trichlorobenzene	9.615	180	6505	0.9349532 ppb		97
94) 1-Methylnaphthalene	0.000		0	N.D.		
95) 2-Methylnaphthalene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 13.D
Acq On : 16 Sep 2014 6:53 pm
Operator : 644
Sample : STD VMS 1 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:41:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

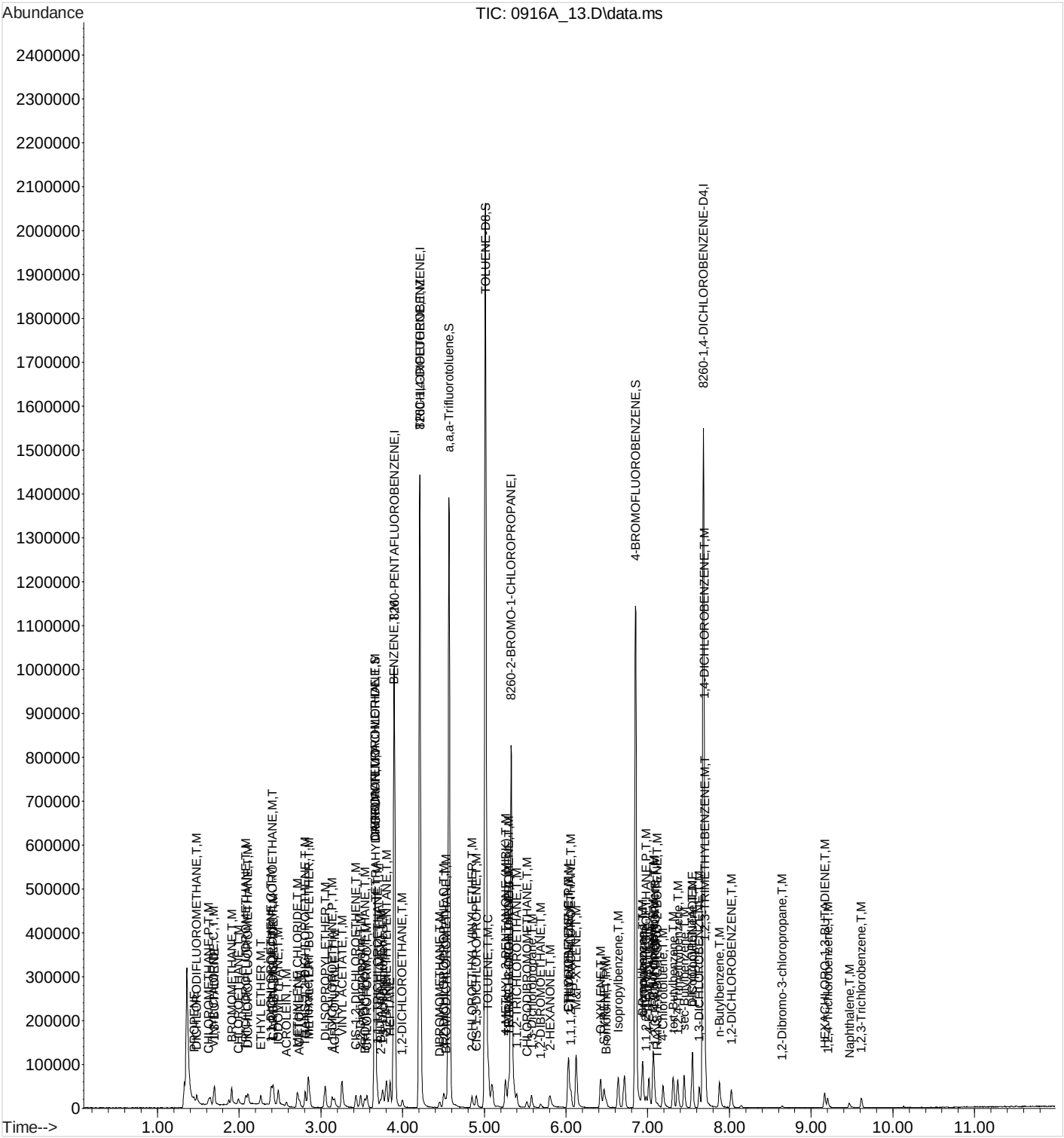
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	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.	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.		
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.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 13.D
Acq On : 16 Sep 2014 6:53 pm
Operator : 644
Sample : STD VMS 1 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:41:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 14.D
Acq On : 16 Sep 2014 7:15 pm
Operator : 644
Sample : STD VMS 2 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:01 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	469002	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	854427	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	146051	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	331231	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	231162	38.5102248 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.28%		
46) a,a,a-Trifluorotoluene	4.566	146	441718	41.4242209 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.56%		
50) TOLUENE-D8	5.013	98	1112764	40.1380511 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.35%		
68) 4-BROMOFLUOROBENZENE	6.849	95	375299	39.7449233 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.36%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6014776m	Below Cal	
3) PROPENE	1.448	41	6919	3.3085151 ppb	98
4) DICHLORODIFLUOROMETHANE	1.480	85	18041	2.8410482 ppb	90
5) CHLOROMETHANE	1.628	50	29147	2.7677324 ppb	99
6) VINYL CHLORIDE	1.685	62	27734	2.6231376 ppb	97
7) 1,3-BUTADIENE	1.698	39	20581	2.6602826 ppb	98
8) BROMOMETHANE	1.907	94	25466	4.9331314 ppb	100
9) CHLOROETHANE	1.991	66	5378	2.7868668 ppb	93
10) TRICHLOROFLUOROMETHANE	2.081	101	23755	2.5964455 ppb	95
11) DICHLOROFLUOROMETHANE	2.107	67	36390	2.6411563 ppb	98
12) ETHYL ETHER	2.264	59	15948	2.5288670 ppb	99
13) ACROLEIN	2.576	56	12479	11.9714465 ppb	89
14) 1,1-DICHLOROETHENE	2.390	61	28705	2.5966797 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.409	101	17193	2.3515364 ppb #	89
16) ACETONE	2.737	43	24202	13.0251828 ppb	98
17) IODOMETHANE	2.476	142	81159	8.1488941 ppb	99
18) CARBON DISULFIDE	2.419	76	60796	2.3985823 ppb	98
19) METHYLENE CHLORIDE	2.711	84	22218	2.7650658 ppb	91
20) ACRYLONITRILE	3.165	53	27386	9.8727138 ppb	95
21) n-Hexane	2.843	56	22595	2.3745356 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.808	96	18449	2.4037948 ppb	97
23) METHYL TERT-BUTYL ETHER	2.856	73	52725	2.3546096 ppb	98
24) 1,1-DICHLOROETHANE	3.139	63	36298	2.2846796 ppb	98
25) VINYL ACETATE	3.255	43	165176	11.8135600 ppb	98
26) DI-ISOPROPYL ETHER	3.052	45	69398	2.3149671 ppb	100
27) 2,2-Dichloropropane	3.486	77	26070	2.1393009 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	19518	2.2382454 ppb	99
29) 2-BUTANONE (MEK)	3.727	72	8338	8.6186867 ppb	88
30) BROMOCHLOROMETHANE	3.538	130	9300	2.1561579 ppb	99
31) TETRAHYDROFURAN	3.666	42	6685	2.6505405 ppb	98
32) CHLOROFORM	3.563	83	30160	2.1441881 ppb	97
34) 1,1,1-TRICHLOROETHANE	3.692	97	25807	2.1706971 ppb	97
35) CARBON TETRACHLORIDE	3.660	117	21534	2.0301926 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 14.D
Acq On : 16 Sep 2014 7:15 pm
Operator : 644
Sample : STD VMS 2 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:01 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.756	75	28693	2.1183564 ppb		96
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	96222	2.1227316 ppb		98
38) HEPTANE	3.846	43	37724	1.9624658 ppb		94
39) BENZENE	3.891	78	82835	2.1635257 ppb	#	88
40) 1,2-DICHLOROETHANE	3.994	62	21373	2.0838260 ppb		98
42) TRICHLOROETHENE	4.210	130	17873	2.2323569 ppb		95
43) 1,2-DICHLOROPROPANE	4.502	62	14936	2.1769345 ppb		95
44) DIBROMOMETHANE	4.454	93	8763	2.1545764 ppb		97
45) BROMODICHLOROMETHANE	4.531	83	20123	1.9783269 ppb		95
47) 2-CHLOROETHYL VINYL ETHER	4.846	63	20620	8.8255785 ppb		94
48) CIS-1,3-DICHLOROPROPENE	4.898	75	26071	1.8787296 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.258	58	33188	10.3822656 ppb		96
51) TOLUENE	5.045	91	84916	2.1830430 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.293	110	4958	1.8776436 ppb	#	5
54) 1,1,2-TRICHLOROETHANE	5.396	97	14672	2.3360703 ppb		98
55) TETRACHLOROETHENE	5.300	164	12411	2.2631408 ppb		96
56) 1,3-Dichloropropane	5.576	76	29209	2.3125864 ppb		98
57) 2-HEXANONE	5.798	58	23740	8.1495186 ppb		83
58) CHLORODIBROMOMETHANE	5.518	129	11556	2.0014237 ppb		96
59) 1,2-DIBROMOETHANE	5.689	107	12150	2.0966024 ppb		95
60) CHLOROBENZENE	6.026	112	48995	2.2570502 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	12577	2.0125055 ppb	#	99
62) ETHYLBENZENE	6.029	106	26769	2.1172112 ppb		97
63) M&P-XYLENE	6.123	106	65243	4.1215778 ppb		98
64) O-XYLENE	6.422	106	31013	2.1522054 ppb		97
65) STYRENE	6.460	104	46073	1.9131458 ppb		96
66) Bromoform	6.489	173	5970	1.8668875 ppb		92
67) Isopropylbenzene	6.637	105	83139	2.0833979 ppb		98
69) Bromobenzene	6.936	77	39880	2.2445654 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	19239	2.3086744 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.087	110	4984	2.1703372 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.116	53	3540	1.6545271 ppb	#	73
73) n-Propylbenzene	6.936	91	104019	2.0716902 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	78849	2.0088542 ppb		97
75) 2-Chlorotoluene	7.061	126	19102	2.1853005 ppb		93
76) 4-Chlorotoluene	7.184	91	57487	2.0283722 ppb		97
77) 1,3,5-Trimethylbenzene	7.071	105	70657	2.1034578 ppb		98
78) tert-Butylbenzene	7.309	119	59112	2.1194445 ppb		99
79) 1,2,4-Trimethylbenzene	7.364	105	66622	2.0533745 ppb		100
80) sec-Butylbenzene	7.444	105	95069	2.0779513 ppb		98
81) 1,3-DICHLOROBENZENE	7.631	146	34456	2.2696212 ppb		93
82) p-Isopropyltoluene	7.547	119	72621	2.0234671 ppb		98
83) DICYCLOPENTADIENE	7.547	66	97956	2.0879778 ppb		98
85) 1,4-DICHLOROBENZENE	7.692	146	32956	2.1848781 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	72226	2.2203738 ppb		96
87) 1,2-DICHLOROBENZENE	8.020	146	30076	2.2107524 ppb		98
88) n-Butylbenzene	7.875	91	71011	2.0850419 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	2214	2.0598430 ppb		93
90) 1,2,4-Trichlorobenzene	9.196	180	14440	1.9008325 ppb		93
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	10441	2.3860080 ppb		95
92) Naphthalene	9.463	128	24988	1.5168609 ppb		97
93) 1,2,3-Trichlorobenzene	9.614	180	13785	2.1334347 ppb		99
94) 1-Methylnaphthalene	0.000		0	N.D.		
95) 2-Methylnaphthalene	10.466	142	975	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 14.D
Acq On : 16 Sep 2014 7:15 pm
Operator : 644
Sample : STD VMS 2 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:01 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

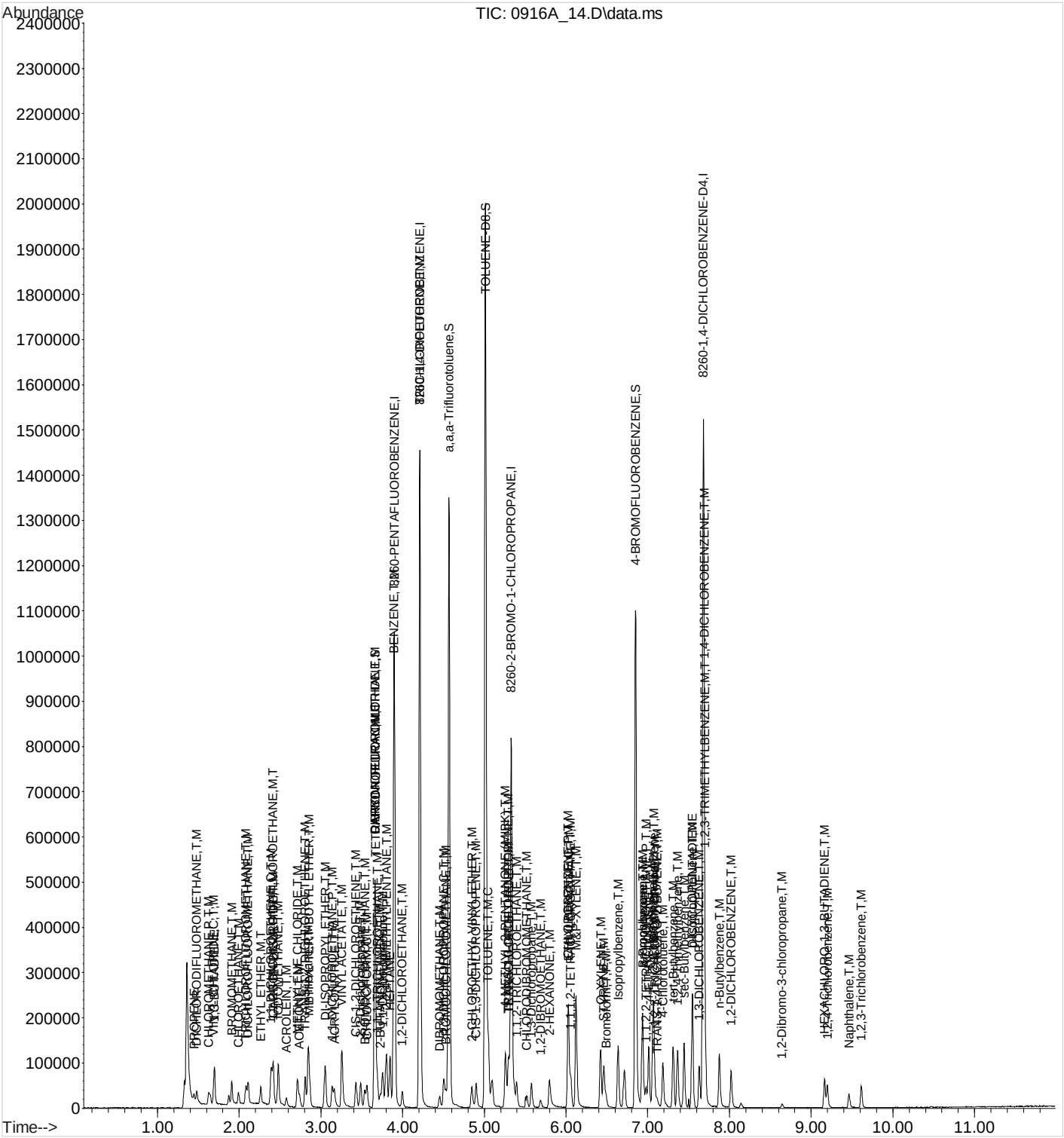
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		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.	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.	
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.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.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\091614a\
Data File : 0916A 14.D
Acq On : 16 Sep 2014 7:15 pm
Operator : 644
Sample : STD VMS 2 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:01 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : STD VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	543233	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	998836	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	174180	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	391219	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	287182	41.3052616 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.26%		
46) a,a,a-Trifluorotoluene	4.567	146	535263	42.9395267 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.35%		
50) TOLUENE-D8	5.014	98	1374899	42.4233331 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.06%		
68) 4-BROMOFLUOROBENZENE	6.850	95	474143	42.1036598 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.26%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6721750m	Below Cal	
3) PROPENE	1.448	41	15623	6.4497485 ppb	99
4) DICHLORODIFLUOROMETHANE	1.483	85	45367	6.1680319 ppb #	86
5) CHLOROMETHANE	1.628	50	71471	5.8593392 ppb	97
6) VINYL CHLORIDE	1.686	62	71037	5.8007175 ppb	98
7) 1,3-BUTADIENE	1.699	39	51635	5.7622757 ppb	99
8) BROMOMETHANE	1.908	94	47232	7.8992678 ppb	99
9) CHLOROETHANE	1.991	66	13777	6.1636592 ppb	87
10) TRICHLOROFLUOROMETHANE	2.081	101	60617	5.7201467 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	88421	5.5405901 ppb	99
12) ETHYL ETHER	2.264	59	43571	5.9649367 ppb	98
13) ACROLEIN	2.576	56	37235	30.8394591 ppb	97
14) 1,1-DICHLOROETHENE	2.390	61	69621	5.4373793 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	46197	5.4550955 ppb	98
16) ACETONE	2.737	43	69309	32.2040694 ppb	97
17) IODOMETHANE	2.477	142	264637	22.9404060 ppb	99
18) CARBON DISULFIDE	2.419	76	156010	5.3139885 ppb	98
19) METHYLENE CHLORIDE	2.715	84	53390	5.7365262 ppb	98
20) ACRYLONITRILE	3.162	53	82845	25.7847424 ppb	96
21) n-Hexane	2.843	56	60512	5.4903040 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.805	96	48504	5.4562049 ppb	99
23) METHYL TERT-BUTYL ETHER	2.856	73	145063	5.5930349 ppb	96
24) 1,1-DICHLOROETHANE	3.139	63	95178	5.1721097 ppb	99
25) VINYL ACETATE	3.255	43	417902	25.8045830 ppb	99
26) DI-ISOPROPYL ETHER	3.052	45	182393	5.2528450 ppb	99
27) 2,2-Dichloropropane	3.486	77	67941	4.8133931 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.428	96	49913	4.9416799 ppb	98
29) 2-BUTANONE (MEK)	3.724	72	31035	27.6961563 ppb	97
30) BROMOCHLOROMETHANE	3.535	130	25529	5.1099890 ppb	95
31) TETRAHYDROFURAN	3.666	42	17109	5.8566088 ppb	93
32) CHLOROFORM	3.563	83	79576	4.8842985 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.689	97	64270	4.6672231 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	56516	4.6001554 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : STD VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.756	75	72407	4.6152176 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	252928	4.8173273 ppb		99
38)	HEPTANE	3.843	43	109545	4.9200041 ppb		98
39)	BENZENE	3.891	78	217015	4.8935778 ppb		94
40)	1,2-DICHLOROETHANE	3.998	62	59829	5.0361222 ppb		99
42)	TRICHLOROETHENE	4.210	130	45635	4.8757902 ppb		96
43)	1,2-DICHLOROPROPANE	4.502	62	37907	4.7261909 ppb		96
44)	DIBROMOMETHANE	4.451	93	24973	5.2524337 ppb		96
45)	BROMODICHLOROMETHANE	4.528	83	56679	4.7665953 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.843	63	67975	24.8876858 ppb		98
48)	CIS-1,3-DICHLOROPROPENE	4.898	75	74487	4.5916403 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.255	58	100345	26.8526758 ppb		98
51)	TOLUENE	5.046	91	227112	4.9945184 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.293	110	13582	4.3999845 ppb		86
54)	1,1,2-TRICHLOROETHANE	5.396	97	39301	5.2469442 ppb		99
55)	TETRACHLOROETHENE	5.297	164	33151	5.0688295 ppb		97
56)	1,3-Dichloropropane	5.576	76	78749	5.2279639 ppb		100
57)	2-HEXANONE	5.792	58	91282	26.2749946 ppb		96
58)	CHLORODIBROMOMETHANE	5.518	129	33115	4.8090856 ppb		98
59)	1,2-DIBROMOETHANE	5.686	107	34323	4.9662810 ppb		98
60)	CHLOROBENZENE	6.026	112	125874	4.8621878 ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.055	133	34017	4.5641749 ppb	#	99
62)	ETHYLBENZENE	6.026	106	71108	4.7158150 ppb		100
63)	M&P-XYLENE	6.123	106	172216	9.1224046 ppb		99
64)	O-XYLENE	6.422	106	83488	4.8581424 ppb		97
65)	STYRENE	6.457	104	125389	4.3658345 ppb		99
66)	Bromoform	6.486	173	16748	4.3915013 ppb		98
67)	Isopropylbenzene	6.634	105	221673	4.6578605 ppb		100
69)	Bromobenzene	6.933	77	102729	4.8481541 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	51778	5.2099278 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.087	110	14265	5.2086745 ppb		89
72)	TRANS-1,4-DICHLORO-2-B...	7.113	53	12163	4.7666973 ppb	#	87
73)	n-Propylbenzene	6.933	91	273916	4.5744173 ppb		100
74)	4-ETHYLTOLUENE	7.010	105	216656	4.6283821 ppb		98
75)	2-Chlorotoluene	7.062	126	49681	4.7657242 ppb		97
76)	4-Chlorotoluene	7.181	91	157577	4.6620516 ppb		99
77)	1,3,5-Trimethylbenzene	7.068	105	186385	4.6526011 ppb		100
78)	tert-Butylbenzene	7.309	119	148817	4.4740948 ppb		98
79)	1,2,4-Trimethylbenzene	7.364	105	181234	4.6837793 ppb		96
80)	sec-Butylbenzene	7.444	105	247336	4.5330448 ppb		99
81)	1,3-DICHLOROBENZENE	7.628	146	84388	4.6609609 ppb		99
82)	p-Isopropyltoluene	7.547	119	196250	4.5851107 ppb		99
83)	DICYCLOPENTADIENE	7.544	66	261648	4.6764737 ppb		99
85)	1,4-DICHLOROBENZENE	7.692	146	87559	4.9147853 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	190893	4.9685948 ppb		99
87)	1,2-DICHLOROBENZENE	8.020	146	79401	4.9414799 ppb		99
88)	n-Butylbenzene	7.875	91	189972	4.7226939 ppb		100
89)	1,2-Dibromo-3-chloropr...	8.644	157	6686	5.2666434 ppb		96
90)	1,2,4-Trichlorobenzene	9.193	180	44327	4.9403309 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.165	225	26611	5.1487528 ppb		95
92)	Naphthalene	9.457	128	93199	4.7900116 ppb		99
93)	1,2,3-Trichlorobenzene	9.611	180	39211	5.1379696 ppb		96
94)	1-Methylnaphthalene	10.335	142	8350	2.0484312 ppb	#	96
95)	2-Methylnaphthalene	10.457	142	12783	2.9315229 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : STD VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

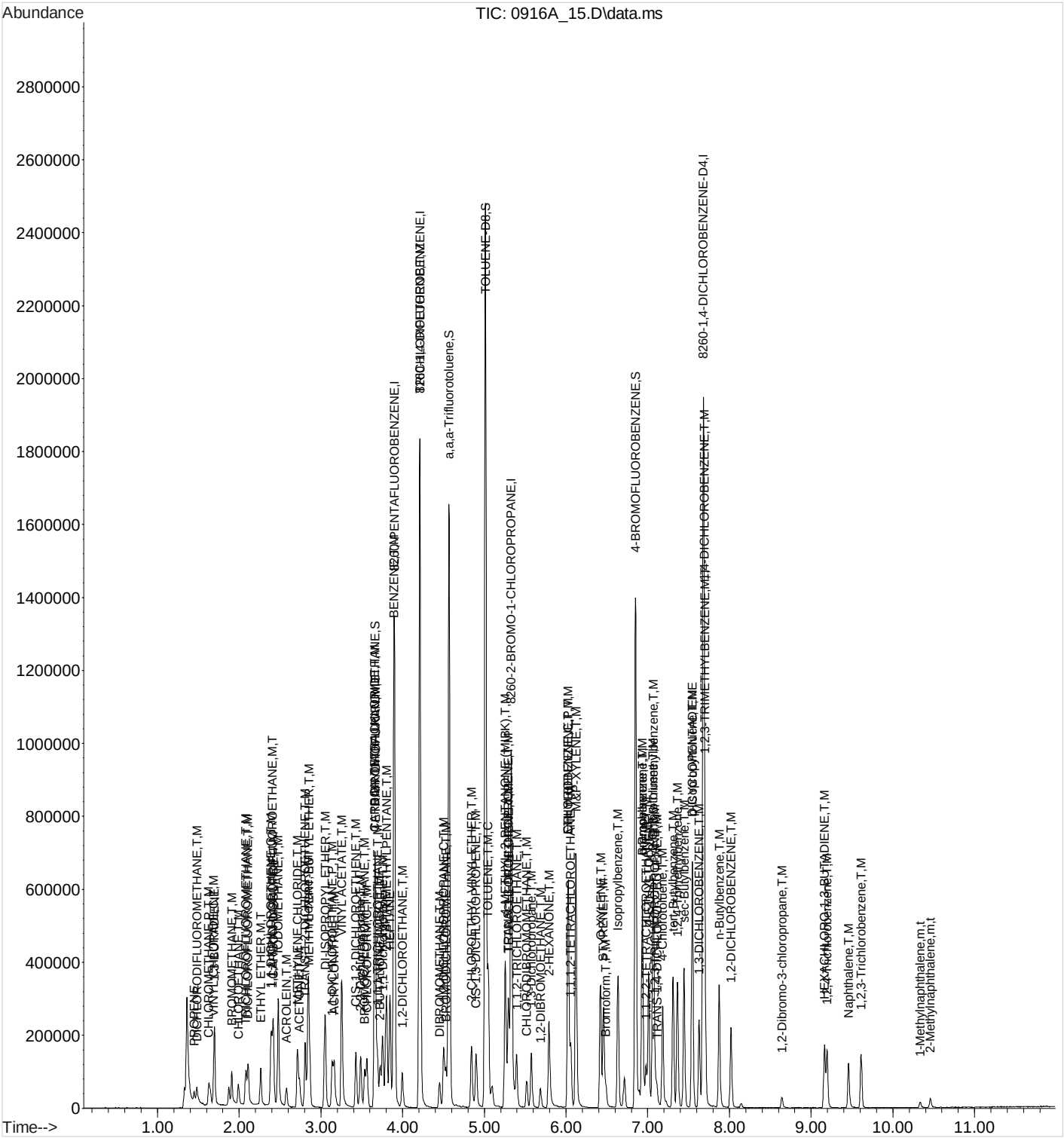
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.	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.	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.		
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\091614a\
Data File : 0916A 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : STD VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 16.D
Acq On : 16 Sep 2014 9:05 pm
Operator : 644
Sample : STD VMS 10 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:30 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	674705	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1246289	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	212406	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	501111	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	379127	43.9041012 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 109.76%		
46) a,a,a-Trifluorotoluene	4.567	146	670675	43.1198828 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.80%		
50) TOLUENE-D8	5.013	98	1750822	43.2963625 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 108.24%		
68) 4-BROMOFLUOROBENZENE	6.849	95	617905	44.9949445 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.49%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5943874m	Below Cal	
3) PROPENE	1.448	41	33971	11.2916886 ppb	97
4) DICHLORODIFLUOROMETHANE	1.480	85	93294	10.2125096 ppb	96
5) CHLOROMETHANE	1.628	50	149524	9.8696535 ppb	100
6) VINYL CHLORIDE	1.686	62	148719	9.7776790 ppb	99
7) 1,3-BUTADIENE	1.699	39	109775	9.8633743 ppb	98
8) BROMOMETHANE	1.908	94	82748	11.1424379 ppb	99
9) CHLOROETHANE	1.988	66	27749	9.9954767 ppb	93
10) TRICHLOROFLUOROMETHANE	2.081	101	123991	9.4205249 ppb	97
11) DICHLOROFLUOROMETHANE	2.107	67	195263	9.8512825 ppb	99
12) ETHYL ETHER	2.261	59	89847	9.9033952 ppb	99
13) ACROLEIN	2.576	56	80398	53.6133389 ppb	96
14) 1,1-DICHLOROETHENE	2.390	61	152835	9.6104652 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	98820	9.3951919 ppb	98
16) ACETONE	2.737	43	150220	56.1980303 ppb	96
17) IODOMETHANE	2.477	142	641809	44.7948982 ppb	100
18) CARBON DISULFIDE	2.419	76	345742	9.4818380 ppb	99
19) METHYLENE CHLORIDE	2.711	84	113637	9.8306229 ppb	100
20) ACRYLONITRILE	3.158	53	198639	49.7775172 ppb	97
21) n-Hexane	2.843	56	133821	9.7757788 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.805	96	111213	10.0725837 ppb	95
23) METHYL TERT-BUTYL ETHER	2.856	73	315161	9.7835295 ppb	97
24) 1,1-DICHLOROETHANE	3.136	63	212775	9.3094488 ppb	100
25) VINYL ACETATE	3.252	43	904924	44.9890392 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	404890	9.3884887 ppb	99
27) 2,2-Dichloropropane	3.486	77	151177	8.6233762 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.428	96	113623	9.0573137 ppb	98
29) 2-BUTANONE (MEK)	3.724	72	68576	49.2733531 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	58565	9.4383597 ppb	97
31) TETRAHYDROFURAN	3.663	42	36865	10.1603353 ppb	98
32) CHLOROFORM	3.563	83	182849	9.0361806 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	151237	8.8426112 ppb	100
35) CARBON TETRACHLORIDE	3.657	117	133537	8.7513473 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 16.D
Acq On : 16 Sep 2014 9:05 pm
Operator : 644
Sample : STD VMS 10 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:30 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	172650	8.8603408 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	579880	8.8924124 ppb		99
38)	HEPTANE	3.843	43	249447	9.0203503 ppb		98
39)	BENZENE	3.888	78	494738	8.9822311 ppb		97
40)	1,2-DICHLOROETHANE	3.994	62	133012	9.0146226 ppb		99
42)	TRICHLOROETHENE	4.206	130	106821	9.1470072 ppb		99
43)	1,2-DICHLOROPROPANE	4.502	62	90553	9.0483650 ppb		97
44)	DIBROMOMETHANE	4.451	93	53498	9.0178464 ppb		99
45)	BROMODICHLOROMETHANE	4.528	83	126892	8.5525528 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	4.840	63	194350	57.0289360 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	4.898	75	172355	8.5150398 ppb		98
49)	4-METHYL-2-PENTANONE (...	5.255	58	225176	48.2935750 ppb		97
51)	TOLUENE	5.046	91	505673	8.9124832 ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	32976	8.5617161 ppb		87
54)	1,1,2-TRICHLOROETHANE	5.393	97	86632	9.4844618 ppb		99
55)	TETRACHLOROETHENE	5.296	164	72479	9.0877160 ppb		98
56)	1,3-Dichloropropane	5.573	76	173462	9.4432914 ppb		98
57)	2-HEXANONE	5.788	58	200990	47.4420497 ppb		98
58)	CHLORODIBROMOMETHANE	5.518	129	74577	8.8812514 ppb		99
59)	1,2-DIBROMOETHANE	5.686	107	79112	9.3868509 ppb		97
60)	CHLOROBENZENE	6.023	112	281277	8.9096661 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.058	133	80286	8.8335972 ppb		98
62)	ETHYLBENZENE	6.026	106	166919	9.0776947 ppb		97
63)	M&P-XYLENE	6.120	106	415350	18.0418702 ppb		98
64)	O-XYLENE	6.422	106	190191	9.0754393 ppb		97
65)	STYRENE	6.457	104	300874	8.5906099 ppb		100
66)	Bromoform	6.486	173	39757	8.5486035 ppb		98
67)	Isopropylbenzene	6.634	105	518382	8.9321314 ppb		100
69)	Bromobenzene	6.933	77	233638	9.0418717 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	116915	9.6469088 ppb		97
71)	1,2,3-TRICHLOROPROPANE	7.084	110	31161	9.3303585 ppb		95
72)	TRANS-1,4-DICHLORO-2-B...	7.110	53	28287	9.0906567 ppb	#	92
73)	n-Propylbenzene	6.933	91	649872	8.8997479 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	508247	8.9035830 ppb		100
75)	2-Chlorotoluene	7.062	126	111962	8.8072582 ppb		95
76)	4-Chlorotoluene	7.181	91	366838	8.9000012 ppb		99
77)	1,3,5-Trimethylbenzene	7.068	105	430981	8.8221510 ppb		99
78)	tert-Butylbenzene	7.309	119	356090	8.7789772 ppb		99
79)	1,2,4-Trimethylbenzene	7.364	105	417517	8.8483525 ppb		100
80)	sec-Butylbenzene	7.444	105	586388	8.8129085 ppb		99
81)	1,3-DICHLOROBENZENE	7.628	146	193323	8.7560816 ppb		99
82)	p-Isopropyltoluene	7.547	119	457531	8.7658128 ppb		100
83)	DICYCLOPENTADIENE	7.547	66	602659	8.8329186 ppb		99
85)	1,4-DICHLOROBENZENE	7.692	146	205433	9.0024344 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	434586	8.8309070 ppb		98
87)	1,2-DICHLOROBENZENE	8.020	146	179722	8.7320921 ppb		99
88)	n-Butylbenzene	7.872	91	437350	8.4881948 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.644	157	14783	9.0910935 ppb		93
90)	1,2,4-Trichlorobenzene	9.193	180	96966	8.4370997 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	57075	8.6213002 ppb		99
92)	Naphthalene	9.457	128	205471	8.2444530 ppb		100
93)	1,2,3-Trichlorobenzene	9.611	180	83416	8.5333386 ppb		97
94)	1-Methylnaphthalene	10.328	142	26532	5.0814880 ppb		98
95)	2-Methylnaphthalene	10.457	142	34691	6.2110257 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 16.D
Acq On : 16 Sep 2014 9:05 pm
Operator : 644
Sample : STD VMS 10 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:30 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

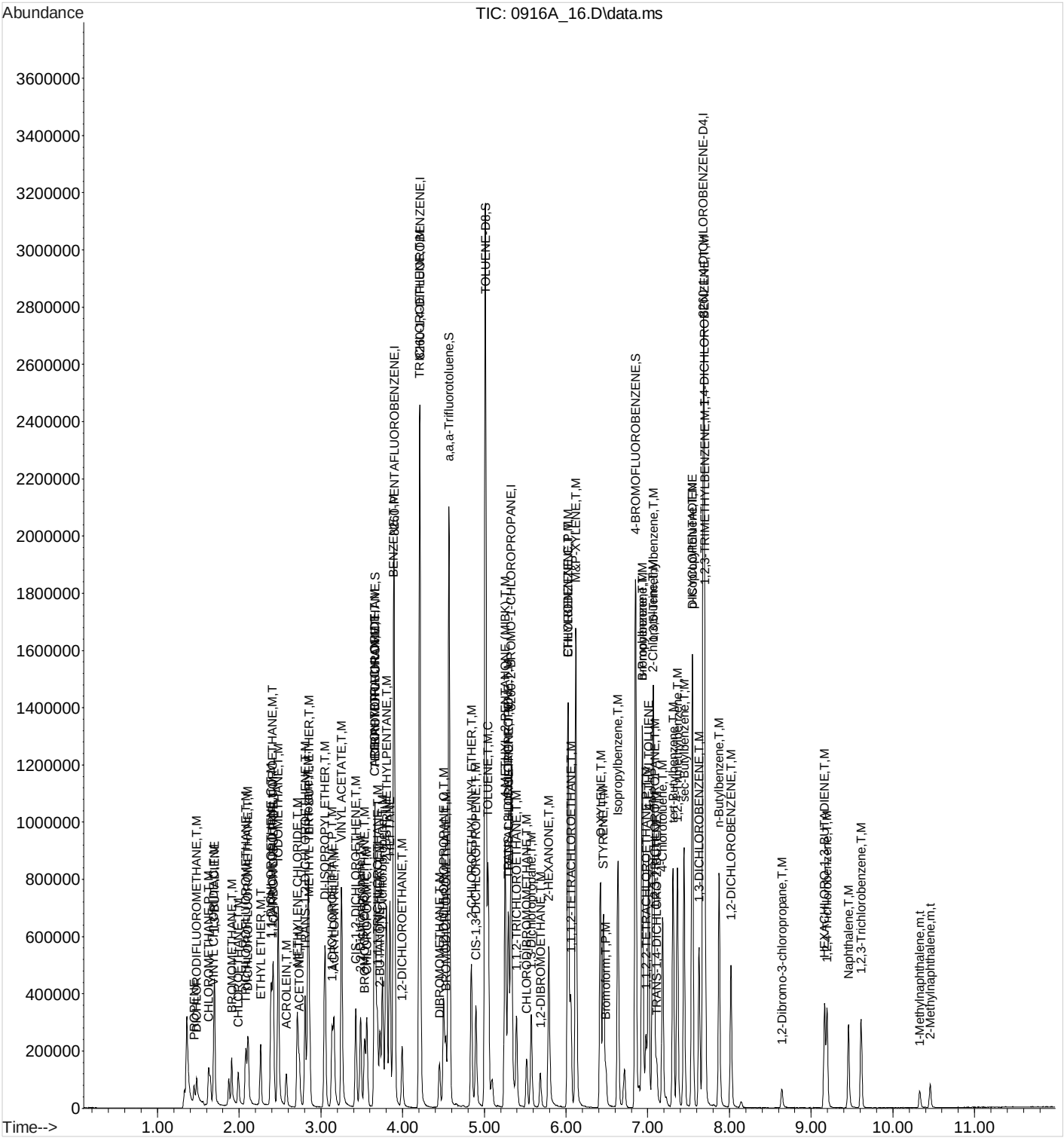
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	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.		
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\091614a\
Data File : 0916A 16.D
Acq On : 16 Sep 2014 9:05 pm
Operator : 644
Sample : STD VMS 10 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:30 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 17.D
Acq On : 16 Sep 2014 9:27 pm
Operator : 644
Sample : MSTD VMS 25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:44 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.898	168	599608	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1096263	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	192620	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	452822	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.68
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.660	111	345339	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	4.566	146	615663	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.50%			
50) TOLUENE-D8	5.013	98	1600660	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.50%#			
68) 4-BROMOFLUOROBENZENE	6.849	95	560409	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.50%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	11333686m	10.0000000	ppm	
3) PROPENE	1.448	41	66841	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.480	85	202962	25.0000000	ppb	100
5) CHLOROMETHANE	1.628	50	336591	25.0000000	ppb	100
6) VINYL CHLORIDE	1.686	62	337928	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.698	39	247270	25.0000000	ppb	100
8) BROMOMETHANE	1.907	94	164995	25.0000000	ppb	100
9) CHLOROETHANE	1.988	66	61679	25.0000000	ppb	100
10) TRICHLOROFLUOROMETHANE	2.081	101	292421	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	2.107	67	440373	25.0000000	ppb	100
12) ETHYL ETHER	2.261	59	201564	25.0000000	ppb	100
13) ACROLEIN	2.576	56	166585	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.390	61	353323	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	233686	25.0000000	ppb	100
16) ACETONE	2.737	43	296941	125.0000000	ppb	100
17) IODOMETHANE	2.477	142	1591625	125.0000000	ppb	100
18) CARBON DISULFIDE	2.419	76	810127	25.0000000	ppb	100
19) METHYLENE CHLORIDE	2.711	84	256822	25.0000000	ppb	100
20) ACRYLONITRILE	3.158	53	443297	125.0000000	ppb	100
21) n-Hexane	2.843	56	304135	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.804	96	245306	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	2.856	73	715699	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.136	63	507797	25.0000000	ppb	100
25) VINYL ACETATE	3.251	43	2234441	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	958153	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.486	77	389495	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	278715	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	3.721	72	154605	125.0000000	ppb	100
30) BROMOCHLOROMETHANE	3.534	130	137859	25.0000000	ppb	100
31) TETRAHYDROFURAN	3.663	42	80612	25.0000000	ppb	100
32) CHLOROFORM	3.563	83	449574	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.689	97	379989	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	3.660	117	339078	25.0045721	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 17.D
Acq On : 16 Sep 2014 9:27 pm
Operator : 644
Sample : MSTD VMS 25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:44 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	432922	25.0000000	ppb		100
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	1448812	25.0000000	ppb		100
38) HEPTANE	3.843	43	614396	25.0000000	ppb		100
39) BENZENE	3.888	78	1223727	25.0000000	ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	327821	25.0000000	ppb		100
42) TRICHLOROETHENE	4.206	130	256811	25.0000000	ppb		100
43) 1,2-DICHLOROPROPANE	4.502	62	220074	25.0000000	ppb		100
44) DIBROMOMETHANE	4.451	93	130458	25.0000000	ppb		100
45) BROMODICHLOROMETHANE	4.528	83	326268	25.0000000	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	374710	125.0000000	ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.898	75	445116	25.0000000	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.255	58	512671	125.0000000	ppb		100
51) TOLUENE	5.046	91	1247691	25.0000000	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	84698	25.0000000	ppb		100
54) 1,1,2-TRICHLOROETHANE	5.393	97	207081	25.0000000	ppb		100
55) TETRACHLOROETHENE	5.296	164	180814	25.0000000	ppb		100
56) 1,3-Dichloropropane	5.573	76	416443	25.0000000	ppb		100
57) 2-HEXANONE	5.788	58	480237	125.0000000	ppb		100
58) CHLORODIBROMOMETHANE	5.518	129	190373	25.0000000	ppb		100
59) 1,2-DIBROMOETHANE	5.682	107	191072	25.0000000	ppb		100
60) CHLOROBENZENE	6.023	112	715727	25.0000000	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	206052	25.0000000	ppb		100
62) ETHYLBENZENE	6.023	106	416874	25.0000000	ppb		100
63) M&P-XYLENE	6.119	106	1043848	50.0000000	ppb		100
64) O-XYLENE	6.418	106	475113	25.0000000	ppb		100
65) STYRENE	6.454	104	794027	25.0000000	ppb		100
66) Bromoform	6.486	173	105437	25.0000000	ppb		100
67) Isopropylbenzene	6.634	105	1315738	25.0000000	ppb		100
69) Bromobenzene	6.933	77	585814	25.0000000	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	274762	25.0000000	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.084	110	75716	25.0000000	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	70545	25.0000000	ppb	#	100
73) n-Propylbenzene	6.933	91	1655483	25.0000000	ppb		100
74) 4-ETHYLTOLUENE	7.010	105	1294150	25.0000000	ppb		100
75) 2-Chlorotoluene	7.062	126	288207	25.0000000	ppb		100
76) 4-Chlorotoluene	7.181	91	934456	25.0000000	ppb		100
77) 1,3,5-Trimethylbenzene	7.068	105	1107537	25.0000000	ppb		100
78) tert-Butylbenzene	7.309	119	919582	25.0000000	ppb		100
79) 1,2,4-Trimethylbenzene	7.364	105	1069760	25.0000000	ppb		100
80) sec-Butylbenzene	7.444	105	1508483	25.0000000	ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	500551	25.0000000	ppb		100
82) p-Isopropyltoluene	7.547	119	1183322	25.0000000	ppb		100
83) DICYCLOPENTADIENE	7.547	66	1546828	25.0000000	ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	515518	25.0000000	ppb		100
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	1111742	25.0000000	ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	464961	25.0000000	ppb		100
88) n-Butylbenzene	7.872	91	1163985	25.0000000	ppb		100
89) 1,2-Dibromo-3-chloropr...	8.640	157	36735	25.0000000	ppb		100
90) 1,2,4-Trichlorobenzene	9.193	180	259633	25.0000000	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	149557	25.0000000	ppb		100
92) Naphthalene	9.454	128	563018	25.0000000	ppb		100
93) 1,2,3-Trichlorobenzene	9.611	180	220833	25.0000000	ppb		100
94) 1-Methylnaphthalene	10.325	142	118077	25.0260695	ppb		100
95) 2-Methylnaphthalene	10.454	142	126179	25.0000000	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 17.D
Acq On : 16 Sep 2014 9:27 pm
Operator : 644
Sample : MSTD VMS 25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:44 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

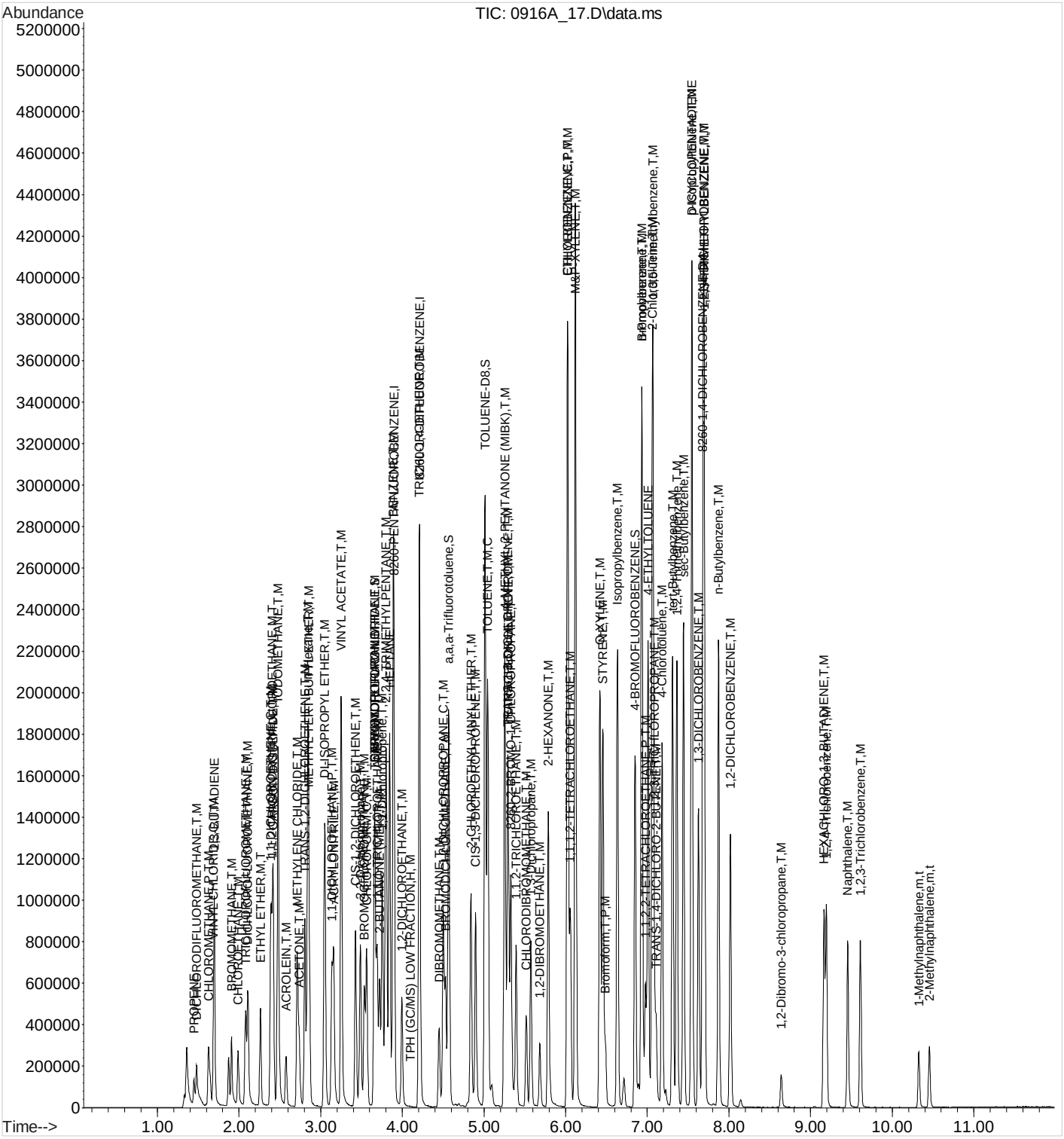
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		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.	
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\091614a\
Data File : 0916A 17.D
Acq On : 16 Sep 2014 9:27 pm
Operator : 644
Sample : MSTD VMS 25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:44 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 18.D
Acq On : 16 Sep 2014 9:49 pm
Operator : 644
Sample : STD VMS 40 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:00 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	602856	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1079521	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	187173	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	459358	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	355749	46.1067389 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 115.27%		
46) a,a,a-Trifluorotoluene	4.567	146	622467	46.2029232 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 115.51%#		
50) TOLUENE-D8	5.013	98	1610464	45.9777912 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 114.94%#		
68) 4-BROMOFLUOROBENZENE	6.849	95	571220	47.2029341 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 118.01%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	35921304m	31.5235225 ppm	
3) PROPENE	1.448	41	110212	40.9996156 ppb	99
4) DICHLORODIFLUOROMETHANE	1.480	85	348374	42.6800423 ppb	99
5) CHLOROMETHANE	1.625	50	576131	42.5610746 ppb	99
6) VINYL CHLORIDE	1.686	62	576280	42.4036469 ppb	100
7) 1,3-BUTADIENE	1.698	39	431386	43.3798911 ppb	99
8) BROMOMETHANE	1.907	94	275620	41.5368716 ppb	99
9) CHLOROETHANE	1.985	66	107896	43.4972560 ppb	96
10) TRICHLOROFLUOROMETHANE	2.078	101	511684	43.5098032 ppb	100
11) DICHLOROFLUOROMETHANE	2.107	67	768533	43.3945987 ppb	100
12) ETHYL ETHER	2.261	59	344415	42.4876713 ppb	99
13) ACROLEIN	2.573	56	292441	218.2560098 ppb	98
14) 1,1-DICHLOROETHENE	2.387	61	618566	43.5319353 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.403	101	410028	43.6289398 ppb	98
16) ACETONE	2.734	43	534312	223.7116522 ppb	99
17) IODOMETHANE	2.477	142	3029853	236.6707844 ppb	99
18) CARBON DISULFIDE	2.419	76	1478983	45.3945709 ppb	99
19) METHYLENE CHLORIDE	2.711	84	469716	45.4775406 ppb	99
20) ACRYLONITRILE	3.158	53	769967	215.9440110 ppb	100
21) n-Hexane	2.840	56	564661	46.1652541 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.805	96	469054	47.5454008 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	1287787	44.7411833 ppb	96
24) 1,1-DICHLOROETHANE	3.136	63	918648	44.9834585 ppb	99
25) VINYL ACETATE	3.248	43	3810631	212.0273320 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	1747536	45.3508161 ppb	100
27) 2,2-Dichloropropane	3.486	77	691020	44.1146228 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	482678	43.0616832 ppb	98
29) 2-BUTANONE (MEK)	3.721	72	254468	204.6319700 ppb	100
30) BROMOCHLOROMETHANE	3.534	130	239943	43.2779619 ppb	96
31) TETRAHYDROFURAN	3.663	42	131054	40.4244783 ppb	97
32) CHLOROFORM	3.560	83	776493	42.9467395 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	650923	42.5943929 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	589900	43.2665275 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 18.D
Acq On : 16 Sep 2014 9:49 pm
Operator : 644
Sample : STD VMS 40 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:00 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	744350	42.7524863 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	2530070	43.4224518 ppb		98
38) HEPTANE	3.843	43	1048818	42.4468623 ppb		99
39) BENZENE	3.888	78	2085413	42.3741865 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	551314	41.8173098 ppb		100
42) TRICHLOROETHENE	4.206	130	447079	44.1971555 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	379473	43.7759736 ppb		100
44) DIBROMOMETHANE	4.448	93	220914	42.9908660 ppb		100
45) BROMODICHLOROMETHANE	4.528	83	558939	43.4924230 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	609061	206.3284816 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.898	75	776966	44.3151761 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.251	58	843004	208.7298486 ppb		99
51) TOLUENE	5.046	91	2133821	43.4184797 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	149766	44.8914616 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.393	97	360924	44.8408353 ppb		95
55) TETRACHLOROETHENE	5.296	164	320818	45.6483263 ppb		98
56) 1,3-Dichloropropane	5.573	76	702537	43.4022077 ppb		100
57) 2-HEXANONE	5.785	58	790577	211.7662511 ppb		97
58) CHLORODIBROMOMETHANE	5.518	129	330595	44.6775257 ppb		100
59) 1,2-DIBROMOETHANE	5.682	107	327551	44.1042119 ppb		99
60) CHLOROBENZENE	6.023	112	1239039	44.5385180 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	356839	44.5547145 ppb		99
62) ETHYLBENZENE	6.023	106	729467	45.0193299 ppb		99
63) M&P-XYLENE	6.120	106	1783192	87.9000304 ppb		99
64) O-XYLENE	6.419	106	837234	45.3365146 ppb		98
65) STYRENE	6.454	104	1340495	43.4338287 ppb		98
66) Bromoform	6.486	173	179092	43.6999894 ppb		97
67) Isopropylbenzene	6.634	105	2281822	44.6180444 ppb		99
69) Bromobenzene	6.933	77	1006390	44.1982173 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	457365	42.8256974 ppb	#	99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	124354	42.2542388 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	127297	46.4248081 ppb	#	98
73) n-Propylbenzene	6.933	91	2830728	43.9917867 ppb		100
74) 4-ETHYLTOLUENE	7.010	105	2223123	44.1953992 ppb		99
75) 2-Chlorotoluene	7.062	126	490375	43.7745794 ppb		99
76) 4-Chlorotoluene	7.181	91	1610437	44.3387116 ppb		99
77) 1,3,5-Trimethylbenzene	7.068	105	1909274	44.3514886 ppb		100
78) tert-Butylbenzene	7.309	119	1579495	44.1902013 ppb		99
79) 1,2,4-Trimethylbenzene	7.361	105	1863491	44.8166232 ppb		99
80) sec-Butylbenzene	7.444	105	2603710	44.4068918 ppb		100
81) 1,3-DICHLOROBENZENE	7.628	146	870968	44.7663877 ppb		100
82) p-Isopropyltoluene	7.547	119	2033631	44.2147731 ppb		100
83) DICYCLOPENTADIENE	7.547	66	2689745	44.7370425 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	888784	42.4882298 ppb	#	67
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	1919308	42.5458205 ppb		99
87) 1,2-DICHLOROBENZENE	8.017	146	793212	42.0425445 ppb		98
88) n-Butylbenzene	7.872	91	2020012	42.7683808 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	61896	41.5239618 ppb		94
90) 1,2,4-Trichlorobenzene	9.193	180	465393	44.1749634 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	259228	42.7160816 ppb		98
92) Naphthalene	9.454	128	1027303	44.9668556 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	389227	43.4365406 ppb		99
94) 1-Methylnaphthalene	10.325	142	276824	57.8372066 ppb		97
95) 2-Methylnaphthalene	10.454	142	271015	52.9325103 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 18.D
Acq On : 16 Sep 2014 9:49 pm
Operator : 644
Sample : STD VMS 40 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:00 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

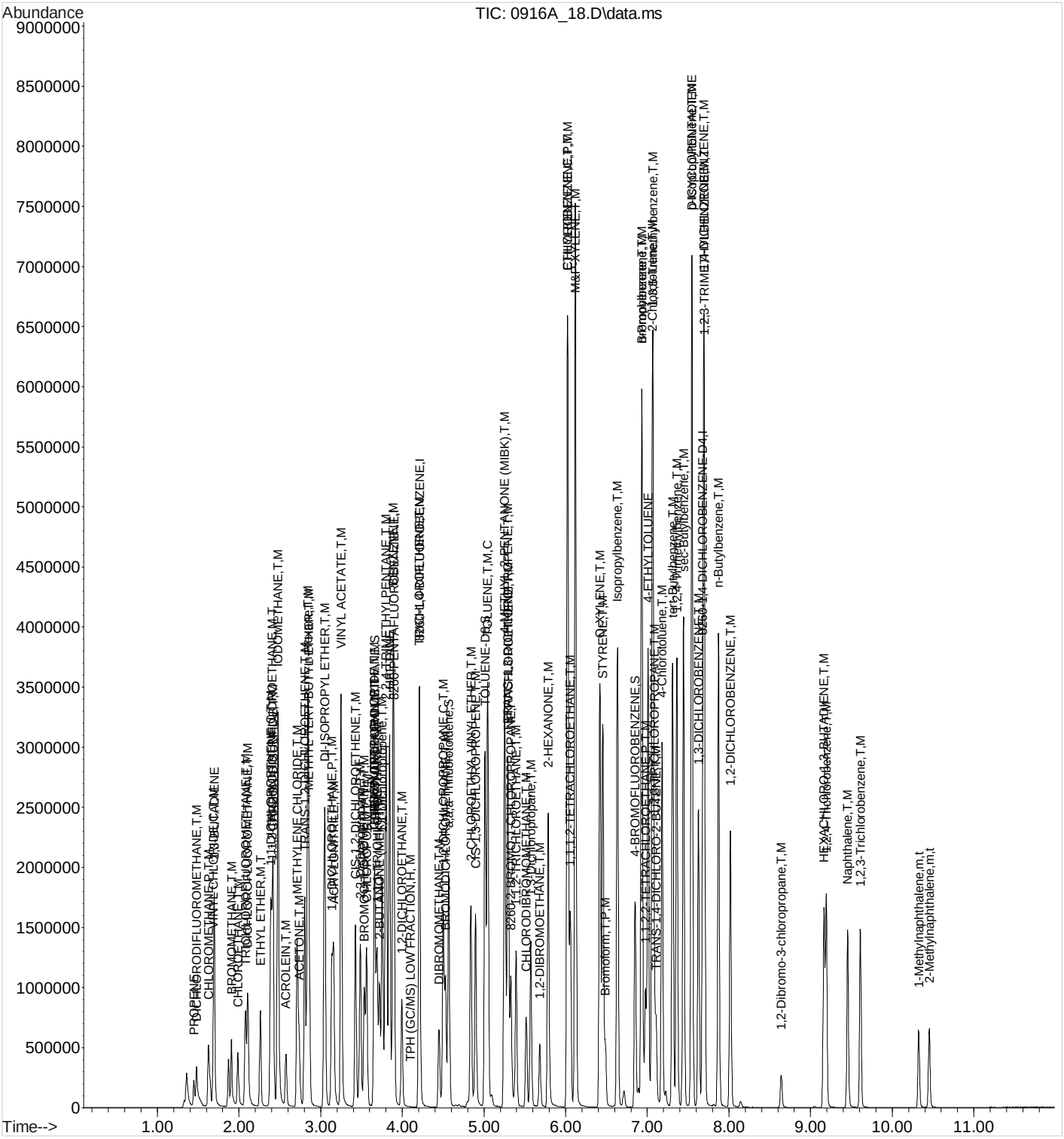
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		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.	
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.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\091614a\
Data File : 0916A 18.D
Acq On : 16 Sep 2014 9:49 pm
Operator : 644
Sample : STD VMS 40 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:00 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 20.D
Acq On : 16 Sep 2014 10:33 pm
Operator : 644
Sample : STD VMS 100 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	613322	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1123173	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	189379	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	477427	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	382439	48.7200736 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 121.80%#		
46) a,a,a-Trifluorotoluene	4.567	146	664327	47.3935745 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 118.48%#		
50) TOLUENE-D8	5.013	98	1702988	46.7297127 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 116.82%#		
68) 4-BROMOFLUOROBENZENE	6.849	95	607807	49.6412455 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 124.10%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	130772021m	112.8034878 ppm	
3) PROPENE	1.448	41	278351	101.7814729 ppb	99
4) DICHLORODIFLUOROMETHANE	1.480	85	868402	104.5742998 ppb	99
5) CHLOROMETHANE	1.625	50	1472715	106.9387479 ppb	99
6) VINYL CHLORIDE	1.686	62	1520915	110.0017639 ppb	99
7) 1,3-BUTADIENE	1.695	39	1136444	112.3299318 ppb	98
8) BROMOMETHANE	1.904	94	701621	103.9323339 ppb	99
9) CHLOROETHANE	1.981	66	255628	101.2954603 ppb	96
10) TRICHLOROFLUOROMETHANE	2.075	101	1379330	115.2865142 ppb	100
11) DICHLOROFLUOROMETHANE	2.104	67	2027345	112.5189992 ppb	100
12) ETHYL ETHER	2.261	59	926142	112.3009669 ppb	99
13) ACROLEIN	2.573	56	793734	582.2747789 ppb	99
14) 1,1-DICHLOROETHENE	2.387	61	1638856	113.3672913 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.403	101	1098346	114.8749570 ppb	98
16) ACETONE	2.734	43	1420456	584.5834382 ppb	98
17) IODOMETHANE	2.477	142	7947240	610.1891273 ppb	99
18) CARBON DISULFIDE	2.416	76	3916529	118.1590863 ppb	99
19) METHYLENE CHLORIDE	2.711	84	1215793	115.7034474 ppb	99
20) ACRYLONITRILE	3.155	53	2021156	557.1779631 ppb	100
21) n-Hexane	2.840	56	1414692	113.6879354 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.805	96	1189211	118.4867073 ppb	98
23) METHYL TERT-BUTYL ETHER	2.853	73	3351123	114.4402617 ppb	99
24) 1,1-DICHLOROETHANE	3.136	63	2328912	112.0938619 ppb	100
25) VINYL ACETATE	3.248	43	9104358	497.9311813 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	4484480	114.3921208 ppb	99
27) 2,2-Dichloropropane	3.483	77	1761690	110.5468791 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.425	96	1233567	108.1736003 ppb	99
29) 2-BUTANONE (MEK)	3.718	72	696262	550.3488288 ppb	97
30) BROMOCHLOROMETHANE	3.534	130	618021	109.5688220 ppb	94
31) TETRAHYDROFURAN	3.663	42	347754	105.4365828 ppb	93
32) CHLOROFORM	3.560	83	1961415	106.6319102 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.689	97	1664615	107.0684864 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	1511966	109.0035680 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 20.D
Acq On : 16 Sep 2014 10:33 pm
Operator : 644
Sample : STD VMS 100 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	1851648	104.5364285 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.798	57	6383797	107.6926138 ppb		97
38)	HEPTANE	3.843	43	2653002	105.5378110 ppb		99
39)	BENZENE	3.888	78	5288361	105.6222551 ppb		100
40)	1,2-DICHLOROETHANE	3.991	62	1383987	103.1844192 ppb		100
42)	TRICHLOROETHENE	4.206	130	1145387	108.8295261 ppb		99
43)	1,2-DICHLOROPROPANE	4.499	62	965901	107.0956889 ppb		100
44)	DIBROMOMETHANE	4.448	93	570529	106.7124568 ppb		99
45)	BROMODICHLOROMETHANE	4.528	83	1464706	109.5428637 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.837	63	1744677	568.0647841 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	4.895	75	2033383	111.4689969 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.251	58	2276952	541.8676680 ppb		98
51)	TOLUENE	5.042	91	5464446	106.8678830 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	397284	114.4553321 ppb		92
54)	1,1,2-TRICHLOROETHANE	5.393	97	913832	112.2110630 ppb		97
55)	TETRACHLOROETHENE	5.296	164	829380	116.6355852 ppb		97
56)	1,3-Dichloropropane	5.573	76	1800532	109.9397756 ppb		100
57)	2-HEXANONE	5.785	58	2220285	587.8041935 ppb		98
58)	CHLORODIBROMOMETHANE	5.515	129	890301	118.9162145 ppb		98
59)	1,2-DIBROMOETHANE	5.682	107	849960	113.1126056 ppb		99
60)	CHLOROBENZENE	6.023	112	3209516	114.0254284 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.055	133	917295	113.1987836 ppb		99
62)	ETHYLBENZENE	6.023	106	1893395	115.4904264 ppb		99
63)	M&P-XYLENE	6.120	106	4678440	227.9309836 ppb		98
64)	O-XYLENE	6.419	106	2135636	114.2983307 ppb		99
65)	STYRENE	6.454	104	3634732	116.3983147 ppb		97
66)	Bromoform	6.486	173	506653	122.1876033 ppb		99
67)	Isopropylbenzene	6.634	105	5900591	114.0343425 ppb		99
69)	Bromobenzene	6.933	77	2621902	113.8062928 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	1188824	110.0197018 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.084	110	332860	111.7849957 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.107	53	346919	125.0464642 ppb	#	92
73)	n-Propylbenzene	6.933	91	7380093	113.3565651 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	5786583	113.6965112 ppb		100
75)	2-Chlorotoluene	7.062	126	1278430	112.7929608 ppb		98
76)	4-Chlorotoluene	7.181	91	4133730	112.4845352 ppb		99
77)	1,3,5-Trimethylbenzene	7.068	105	4978514	114.3012703 ppb		99
78)	tert-Butylbenzene	7.309	119	4055302	112.1352894 ppb		99
79)	1,2,4-Trimethylbenzene	7.361	105	4828990	114.7835148 ppb		100
80)	sec-Butylbenzene	7.444	105	6725012	113.3606198 ppb		100
81)	1,3-DICHLOROBENZENE	7.628	146	2258352	114.7236272 ppb		99
82)	p-Isopropyltoluene	7.547	119	5345455	114.8659496 ppb		100
83)	DICYCLOPENTADIENE	7.547	66	6942995	114.1338312 ppb		100
85)	1,4-DICHLOROBENZENE	7.692	146	2365183	108.7881186 ppb	#	41
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	5023076	107.1337452 ppb		99
87)	1,2-DICHLOROBENZENE	8.017	146	2078048	105.9740664 ppb		99
88)	n-Butylbenzene	7.872	91	5196762	105.8634383 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.640	157	173947	112.2787192 ppb		98
90)	1,2,4-Trichlorobenzene	9.190	180	1269065	115.9002910 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	636389	100.8965858 ppb		98
92)	Naphthalene	9.454	128	2904065	122.3051104 ppb		99
93)	1,2,3-Trichlorobenzene	9.608	180	1116041	119.8330818 ppb		99
94)	1-Methylnaphthalene	10.322	142	824433	165.7308071 ppb		99
95)	2-Methylnaphthalene	10.451	142	752636	141.4355089 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 20.D
Acq On : 16 Sep 2014 10:33 pm
Operator : 644
Sample : STD VMS 100 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

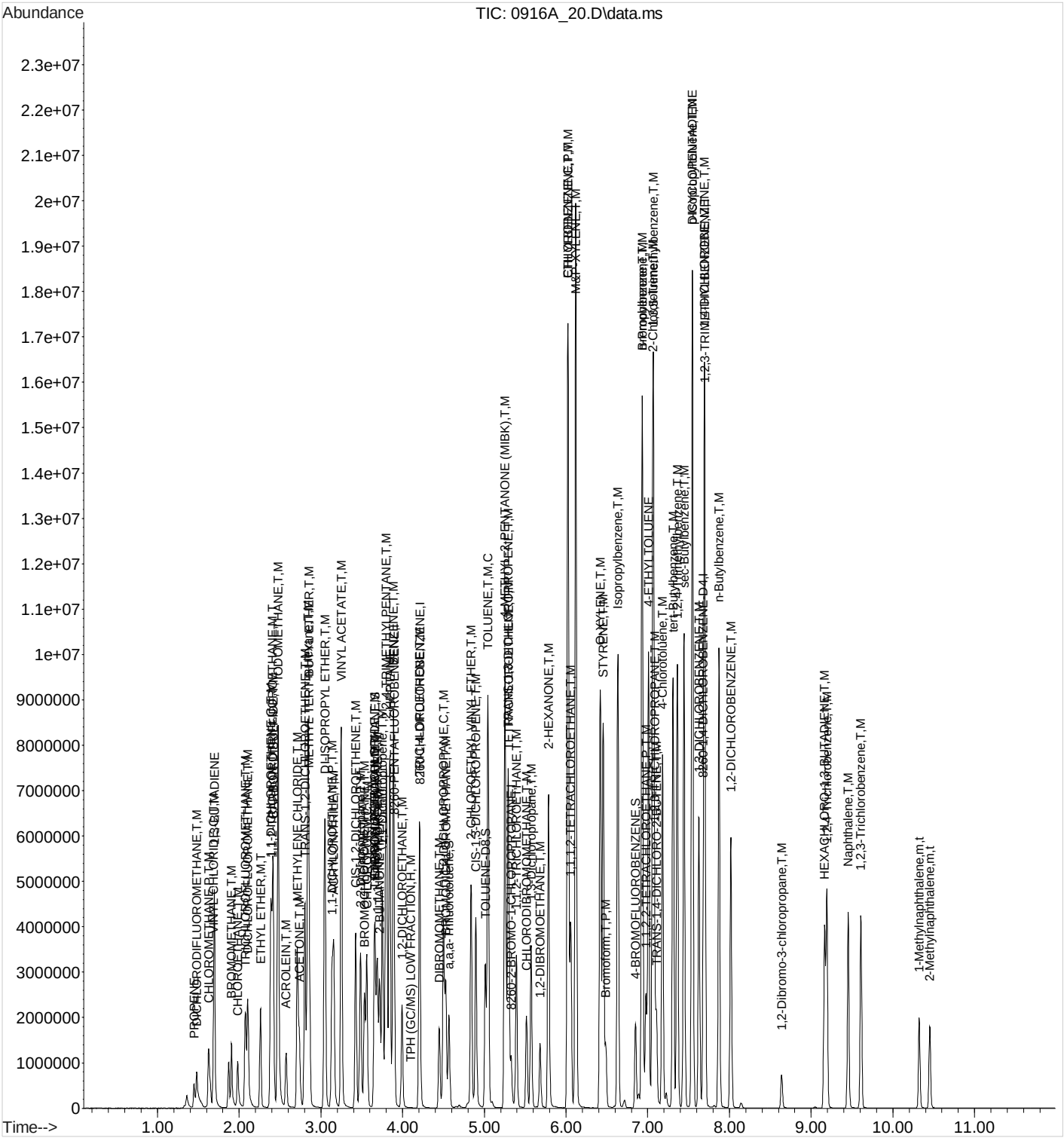
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		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.	
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\091614a\
Data File : 0916A 20.D
Acq On : 16 Sep 2014 10:33 pm
Operator : 644
Sample : STD VMS 100 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On : 16 Sep 2014 10:55 pm
Operator : 644
Sample : STD VMS 200 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 13 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:15:08 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	614854	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1137172	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	193934	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	499768	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	392123	49.8292808 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 124.57%#		
46) a,a,a-Trifluorotoluene	4.566	146	658132	46.3736272 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 115.93%#		
50) TOLUENE-D8	5.013	98	1718787	46.5826381 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 116.46%#		
68) 4-BROMOFLUOROBENZENE	6.849	95	617299	49.2323322 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 123.08%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	295308682m	254.0975322 ppm	
3) PROPENE	1.448	41	555939	202.7774360 ppb	100
4) DICHLORODIFLUOROMETHANE	1.480	85	1768648	212.4526233 ppb	99
5) CHLOROMETHANE	1.624	50	3036354	219.9304326 ppb	99
6) VINYL CHLORIDE	1.686	62	3302756	238.2800797 ppb	99
7) 1,3-BUTADIENE	1.695	39	2531621	249.6104052 ppb	100
8) BROMOMETHANE	1.904	94	1429776	211.2674759 ppb	99
9) CHLOROETHANE	1.975	66	406623	160.7274449 ppb	99
10) TRICHLOROFLUOROMETHANE	2.071	101	2685937	223.9353668 ppb	100
11) DICHLOROFLUOROMETHANE	2.100	67	3918561	216.9408575 ppb	100
12) ETHYL ETHER	2.258	59	1788174	216.2879041 ppb	98
13) ACROLEIN	2.573	56	1570817	1149.4633496 ppb	99
14) 1,1-DICHLOROETHENE	2.383	61	3213964	221.7708817 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.403	101	2178290	227.2576060 ppb	97
16) ACETONE	2.734	43	2762287	1133.9765186 ppb	99
17) IODOMETHANE	2.470	142	14827613	1135.6275484 ppb	97
18) CARBON DISULFIDE	2.415	76	7938259	238.8952872 ppb	99
19) METHYLENE CHLORIDE	2.711	84	2418216	229.5610968 ppb	99
20) ACRYLONITRILE	3.155	53	4030734	1108.3955548 ppb	100
21) n-Hexane	2.837	56	2826133	226.5487232 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.801	96	2406448	239.1683654 ppb	97
23) METHYL TERT-BUTYL ETHER	2.853	73	6761712	230.3359271 ppb	99
24) 1,1-DICHLOROETHANE	3.136	63	4700580	225.6819066 ppb	99
25) VINYL ACETATE	3.239	43	15273838m	833.2680254 ppb	
26) DI-ISOPROPYL ETHER	3.046	45	9059209	230.5105675 ppb	98
27) 2,2-Dichloropropane	3.483	77	3624347	226.8628108 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	2493411	218.1066731 ppb	99
29) 2-BUTANONE (MEK)	3.718	72	1398874	1102.9618526 ppb	95
30) BROMOCHLOROMETHANE	3.531	130	1230384	217.5910238 ppb	93
31) TETRAHYDROFURAN	3.663	42	684351	206.9734479 ppb	94
32) CHLOROFORM	3.560	83	3949927	214.2018942 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	3348276	214.8254102 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	3105635	223.3395525 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On : 16 Sep 2014 10:55 pm
Operator : 644
Sample : STD VMS 200 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 13 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:15:08 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	3767214	212.1514771 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.798	57	13066219	219.8737195 ppb		96
38)	HEPTANE	3.843	43	5394412	214.0578493 ppb		98
39)	BENZENE	3.888	78	10969070	218.5348429 ppb		99
40)	1,2-DICHLOROETHANE	3.991	62	2788294	207.3658413 ppb		100
42)	TRICHLOROETHENE	4.206	130	2316878	217.4293418 ppb		98
43)	1,2-DICHLOROPROPANE	4.499	62	1963380	215.0127595 ppb		99
44)	DIBROMOMETHANE	4.447	93	1170080	216.1590621 ppb		99
45)	BROMODICHLOROMETHANE	4.528	83	3038928	224.4783892 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	4.837	63	3691234	1187.0661086 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	4.894	75	4209669	227.9309765 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.255	58	4530641	1064.9261975 ppb		99
51)	TOLUENE	5.042	91	11284911	217.9815334 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	836486	238.0203715 ppb		95
54)	1,1,2-TRICHLOROETHANE	5.393	97	1856537	222.6131359 ppb		97
55)	TETRACHLOROETHENE	5.296	164	1731576	237.7918338 ppb		96
56)	1,3-Dichloropropane	5.573	76	3653602	217.8477617 ppb		100
57)	2-HEXANONE	5.785	58	4436801	1147.0220565 ppb		99
58)	CHLORODIBROMOMETHANE	5.515	129	1825599	238.1153909 ppb		99
59)	1,2-DIBROMOETHANE	5.682	107	1721633	223.7334714 ppb		100
60)	CHLOROBENZENE	6.023	112	6777154	235.1188158 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.058	133	1908693	230.0099791 ppb		97
62)	ETHYLBENZENE	6.023	106	3998695	238.1775931 ppb		94
63)	M&P-XYLENE	6.119	106	10016368	476.5302079 ppb	#	1
64)	O-XYLENE	6.418	106	4504741	235.4292096 ppb		99
65)	STYRENE	6.454	104	7566488	236.6173081 ppb		98
66)	Bromoform	6.486	173	1083340	255.1286144 ppb		99
67)	Isopropylbenzene	6.631	105	12277405	231.6992333 ppb		99
69)	Bromobenzene	6.933	77	5495759	232.9460580 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	2460501	222.3587935 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.084	110	689054	225.9711666 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.107	53	722178	254.1940897 ppb	#	89
73)	n-Propylbenzene	6.926	91	13912256m	208.6701207 ppb		
74)	4-ETHYLTOLUENE	7.007	105	12080201	231.7805430 ppb		100
75)	2-Chlorotoluene	7.062	126	2724518	234.7321566 ppb		98
76)	4-Chlorotoluene	7.180	91	8751884	232.5573810 ppb		100
77)	1,3,5-Trimethylbenzene	7.071	105	10647642	238.7166048 ppb		99
78)	tert-Butylbenzene	7.309	119	8541882	230.6484487 ppb		99
79)	1,2,4-Trimethylbenzene	7.364	105	10119736	234.8931003 ppb		99
80)	sec-Butylbenzene	7.441	105	13395782	220.5032948 ppb		99
81)	1,3-DICHLOROBENZENE	7.627	146	4741139	235.1915893 ppb		99
82)	p-Isopropyltoluene	7.547	119	11395390	239.1187801 ppb		99
83)	DICYCLOPENTADIENE	7.544	66	13896191	223.0700075 ppb		98
85)	1,4-DICHLOROBENZENE	7.692	146	5012249	220.2357848 ppb	#	32
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	10770778	219.4533142 ppb		99
87)	1,2-DICHLOROBENZENE	8.016	146	4341237	211.4930262 ppb		99
88)	n-Butylbenzene	7.872	91	10790892	209.9950436 ppb		98
89)	1,2-Dibromo-3-chloropr...	8.637	157	367858	226.8293475 ppb		99
90)	1,2,4-Trichlorobenzene	9.193	180	2702739	235.7997277 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	1392969	210.9763569 ppb		97
92)	Naphthalene	9.454	128	6494231	261.2790179 ppb		99
93)	1,2,3-Trichlorobenzene	9.608	180	2386294	244.7704911 ppb		99
94)	1-Methylnaphthalene	10.322	142	2305728	442.7866136 ppb		99
95)	2-Methylnaphthalene	10.454	142	2141652	384.4686248 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On : 16 Sep 2014 10:55 pm
Operator : 644
Sample : STD VMS 200 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 13 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:15:08 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

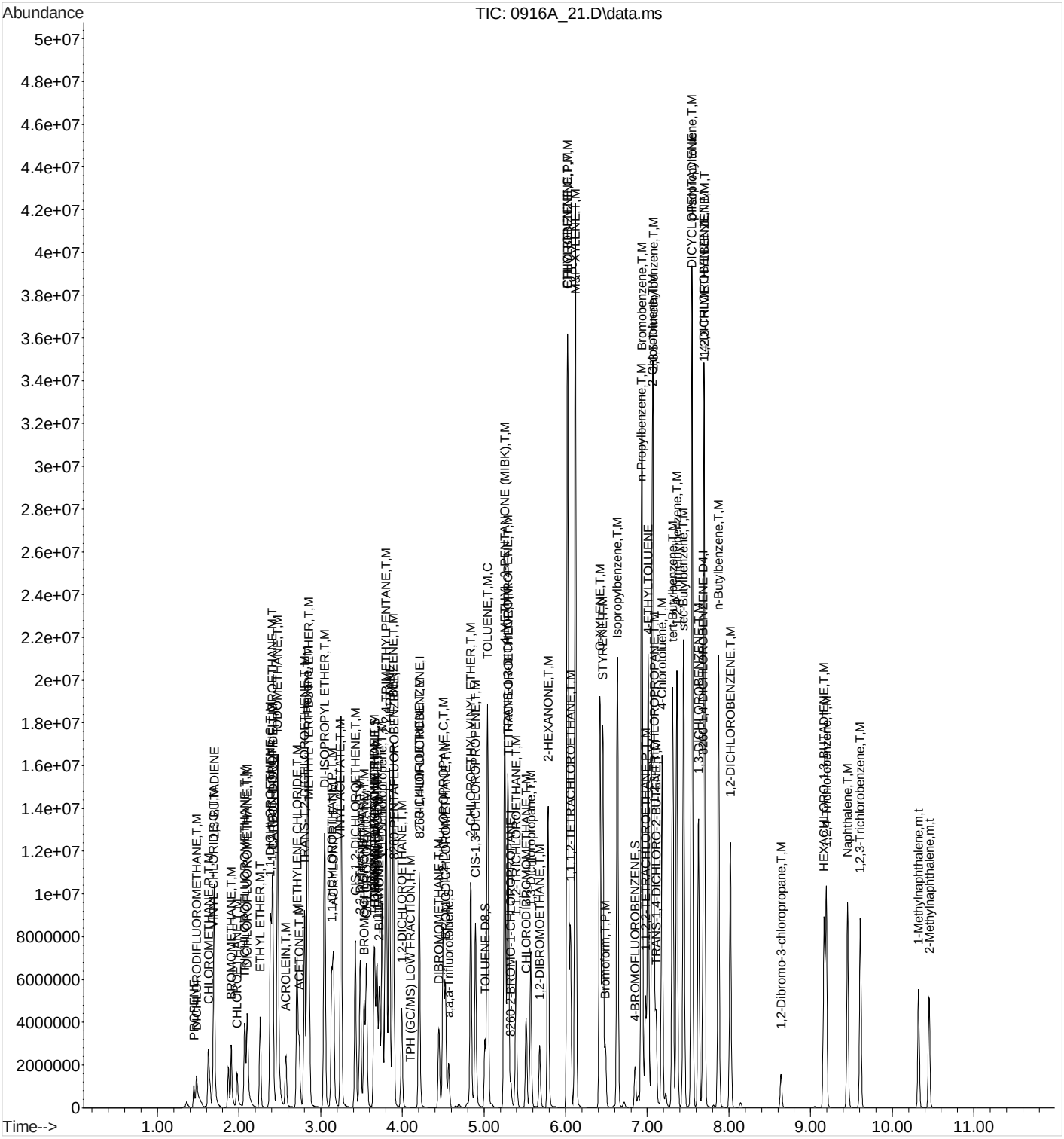
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		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.	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\091614a\
Data File : 0916A 21.D
Acq On : 16 Sep 2014 10:55 pm
Operator : 644
Sample : STD VMS 200 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 13 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:15:08 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On    : 16 Sep 2014  10:55 pm
Operator  : 644
Sample    : STD VMS 200 PPB 14I15510
Misc      : water ISSURR14G23644
ALS Vial  : 13   Sample Multiplier: 1

InstName  : VOCMS21
Quant Time: Sep 17 10:11:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration
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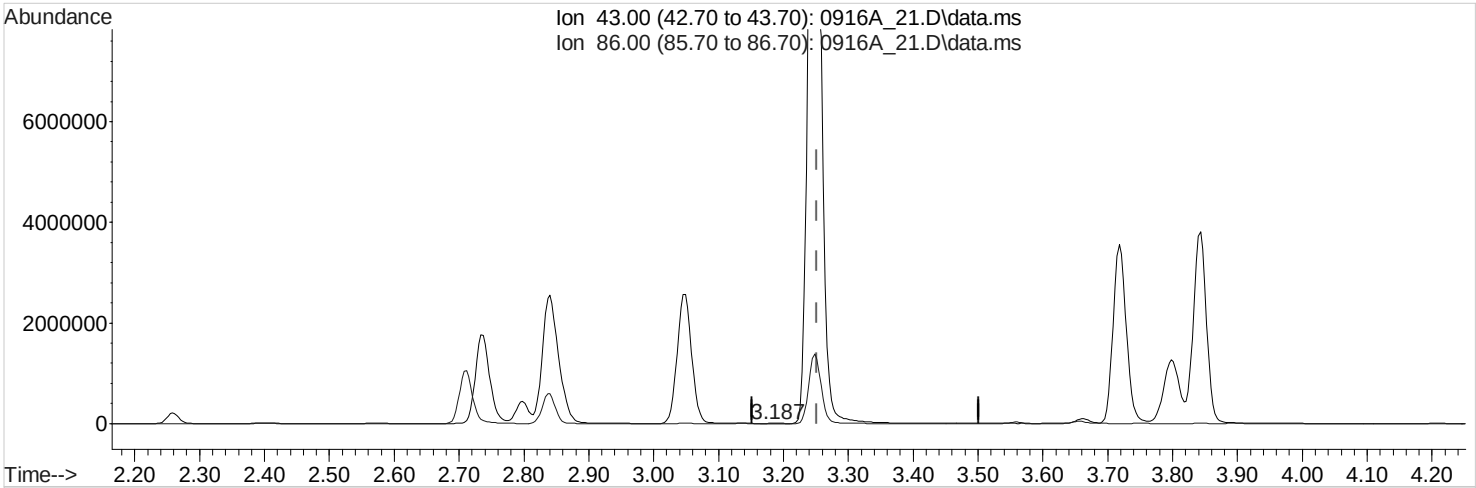

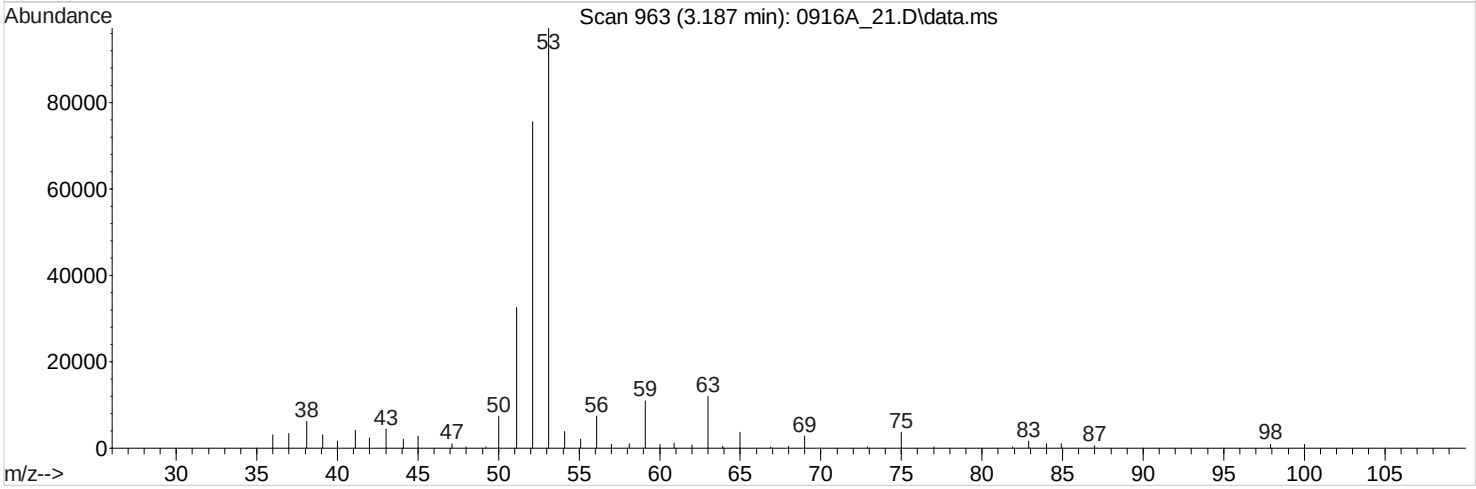

TIC: 0916A_21.D\data.ms

(25) VINYL ACETATE (T,M)

3.187min (-0.064) 0.1484994 ppb

Qvalue = 74

response 2722

Ion	Exp%	Act%
43.00	100	100
86.00	9.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On    : 16 Sep 2014  10:55 pm
Operator  : 644
Sample    : STD VMS 200 PPB 14I15510
Misc      : water ISSURR14G23644
ALS Vial  : 13   Sample Multiplier: 1

InstName  : VOCMS21
Quant Time: Sep 17 10:11:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration
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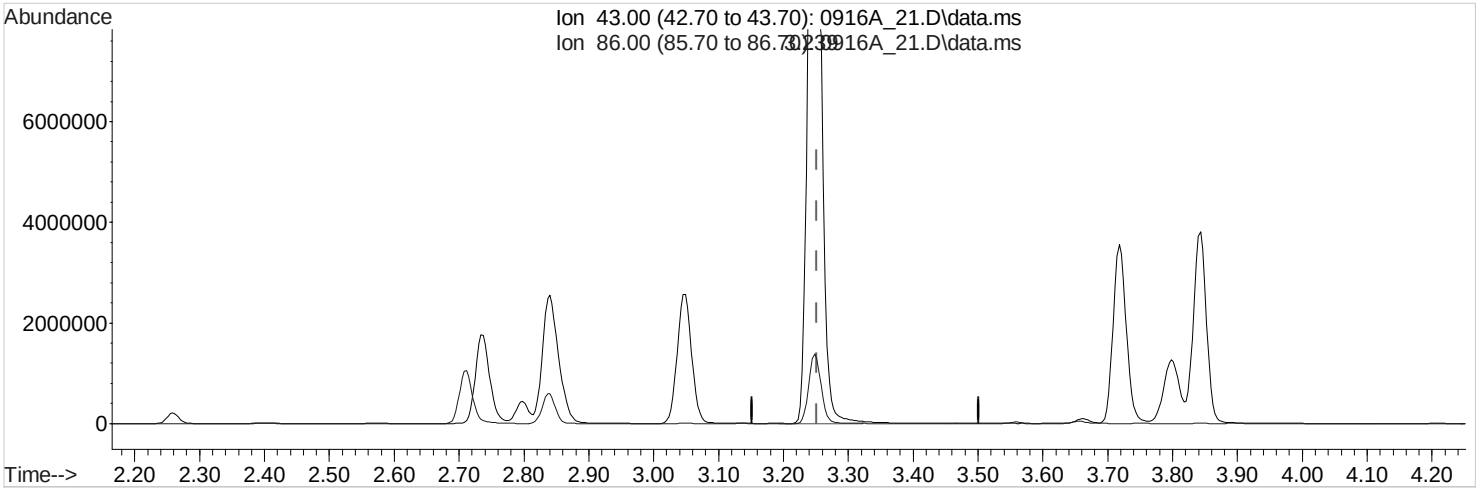

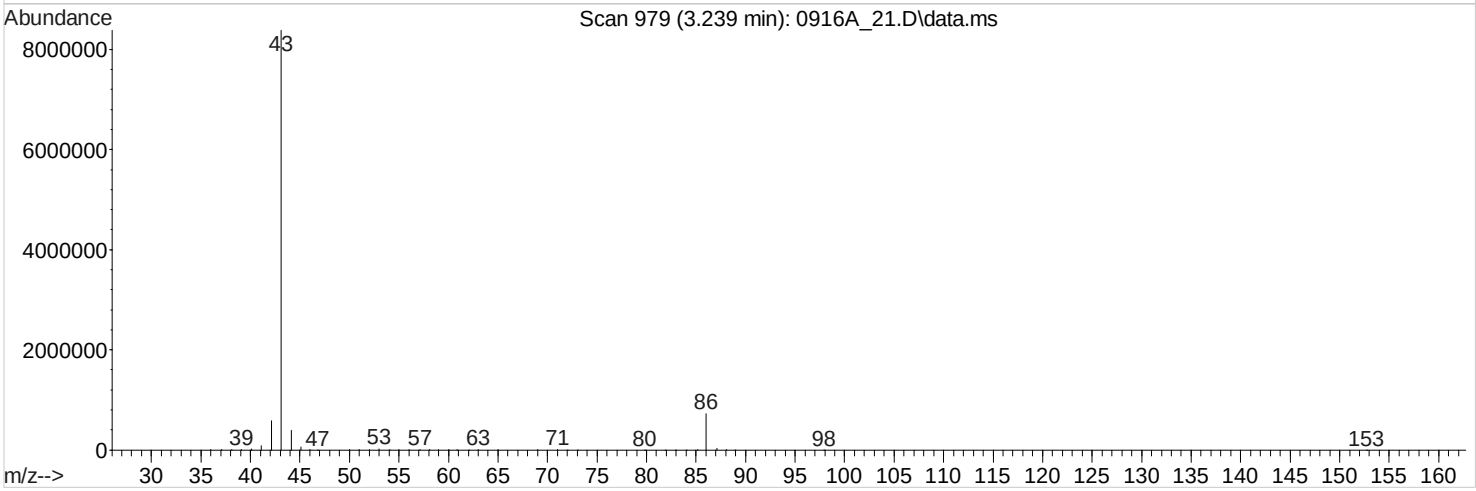

TIC: 0916A_21.D\data.ms

(25) VINYL ACETATE (T,M)

3.239min (-0.013) 833.2680254 ppb m

response 15273838

Ion	Exp%	Act%
43.00	100	100
86.00	9.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On    : 16 Sep 2014  10:55 pm
Operator  : 644
Sample    : STD VMS 200 PPB 14I15510
Misc      : water ISSURR14G23644
ALS Vial  : 13   Sample Multiplier: 1

InstName  : VOCMS21
Quant Time: Sep 17 10:11:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration
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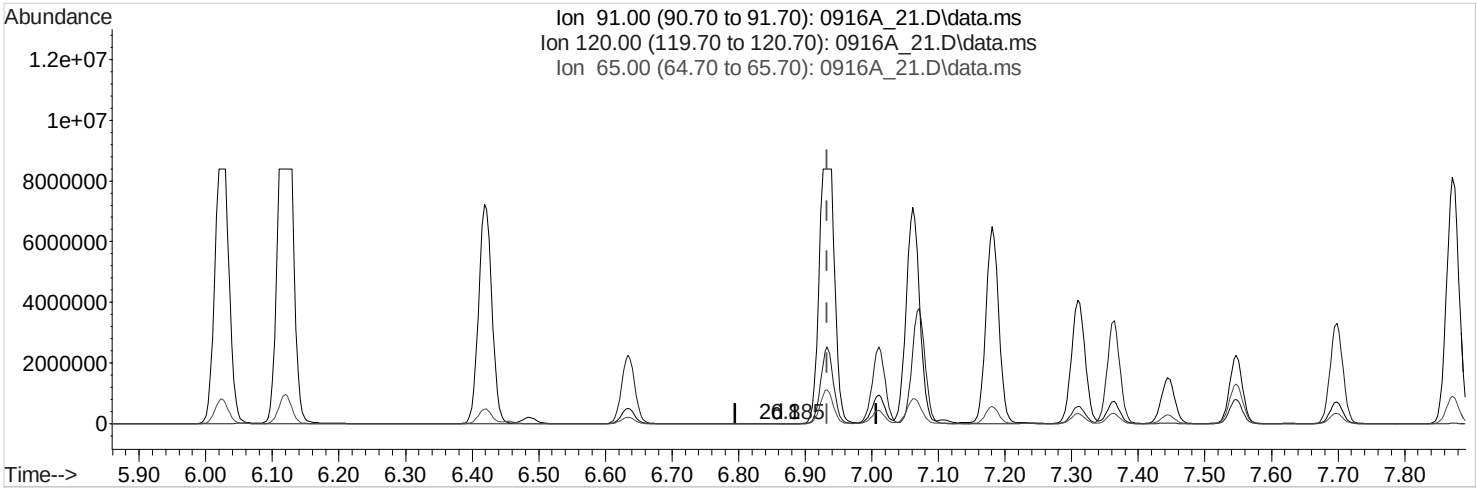

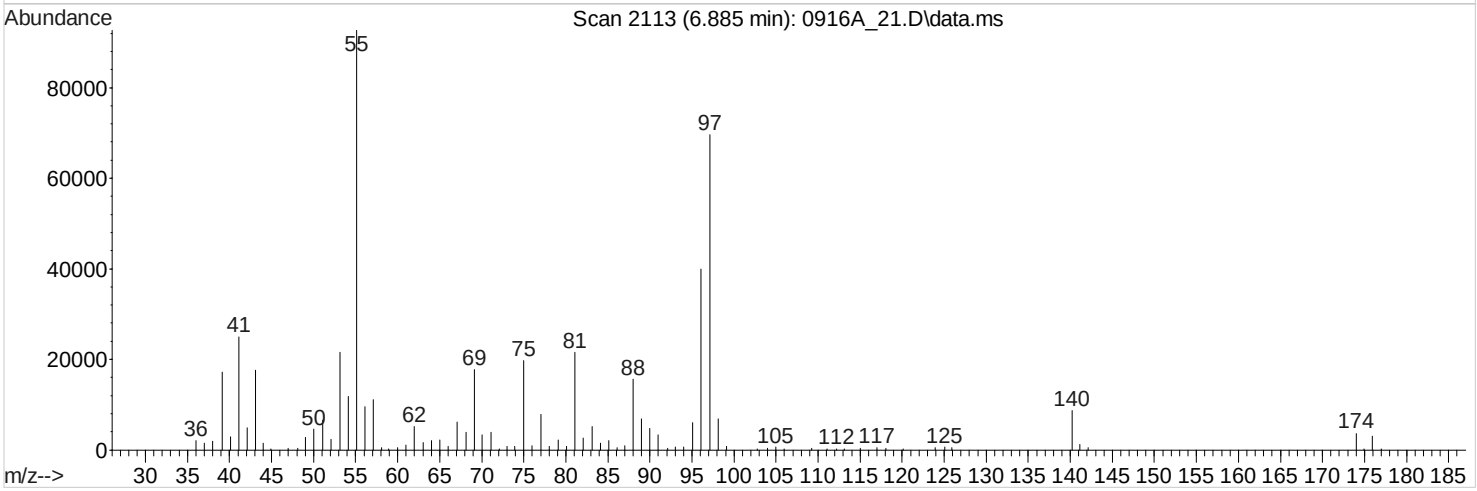

TIC: 0916A_21.D\data.ms

(73) n-Propylbenzene (T,M)

6.885min (-0.048) 0.0360726 ppb

Qvalue = 4

response 2405

Ion	Exp%	Act%
91.00	100	100
120.00	21.00	0.00#
65.00	10.60	84.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On    : 16 Sep 2014  10:55 pm
Operator  : 644
Sample    : STD VMS 200 PPB 14I15510
Misc      : water ISSURR14G23644
ALS Vial  : 13   Sample Multiplier: 1

InstName  : VOCMS21
Quant Time: Sep 17 10:11:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration
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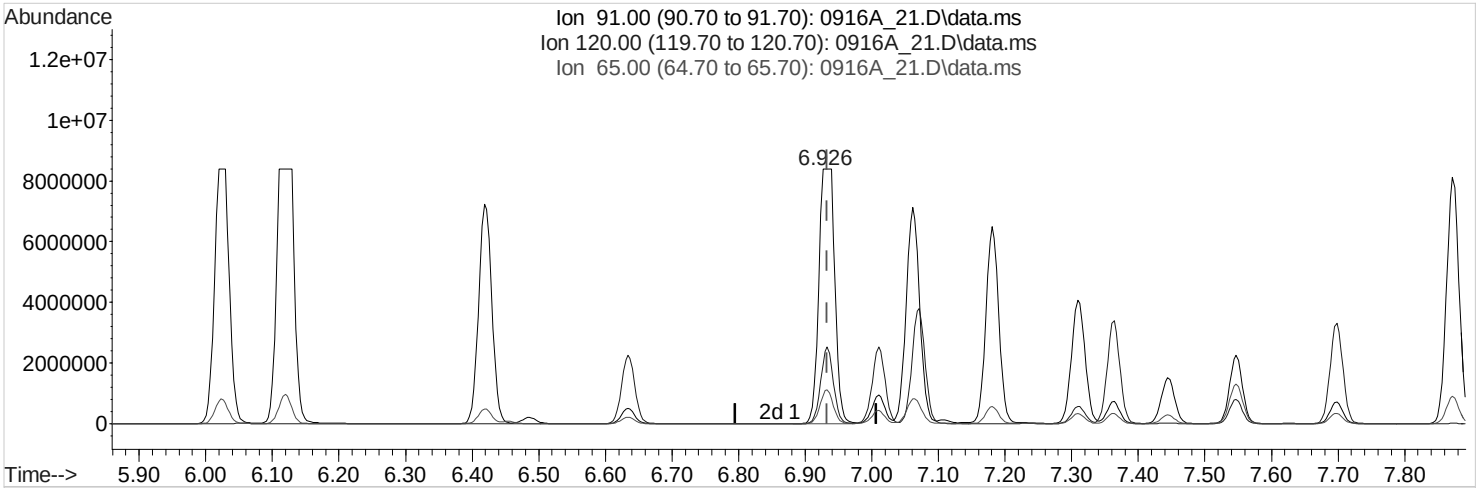
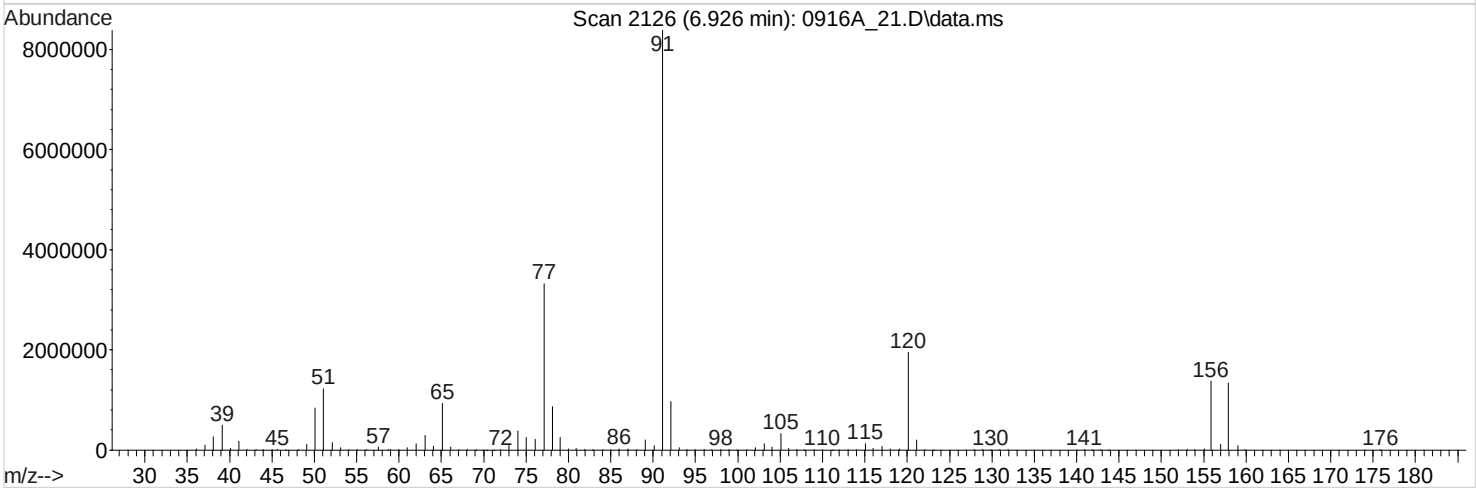




TIC: 0916A_21.D\data.ms

(73) n-Propylbenzene (T,M)

6.926min (-0.006) 208.6701207 ppb m

response 13912256

Ion	Exp%	Act%
91.00	100	100
120.00	21.00	0.00#
65.00	10.60	0.01#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 25.D
Acq On : 17 Sep 2014 12:23 am
Operator : 644
Sample : STD VMS 1 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 17 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:27:55 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	461858	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	870834	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	144327	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	323145	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. d	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D. 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. d	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D. d	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D. 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. 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. d	
35) CARBON TETRACHLORIDE	0.000	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 25.D
Acq On : 17 Sep 2014 12:23 am
Operator : 644
Sample : STD VMS 1 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 17 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:27:55 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	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.	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.	
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.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.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\091614a\
Data File : 0916A 25.D
Acq On : 17 Sep 2014 12:23 am
Operator : 644
Sample : STD VMS 1 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 17 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:27:55 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

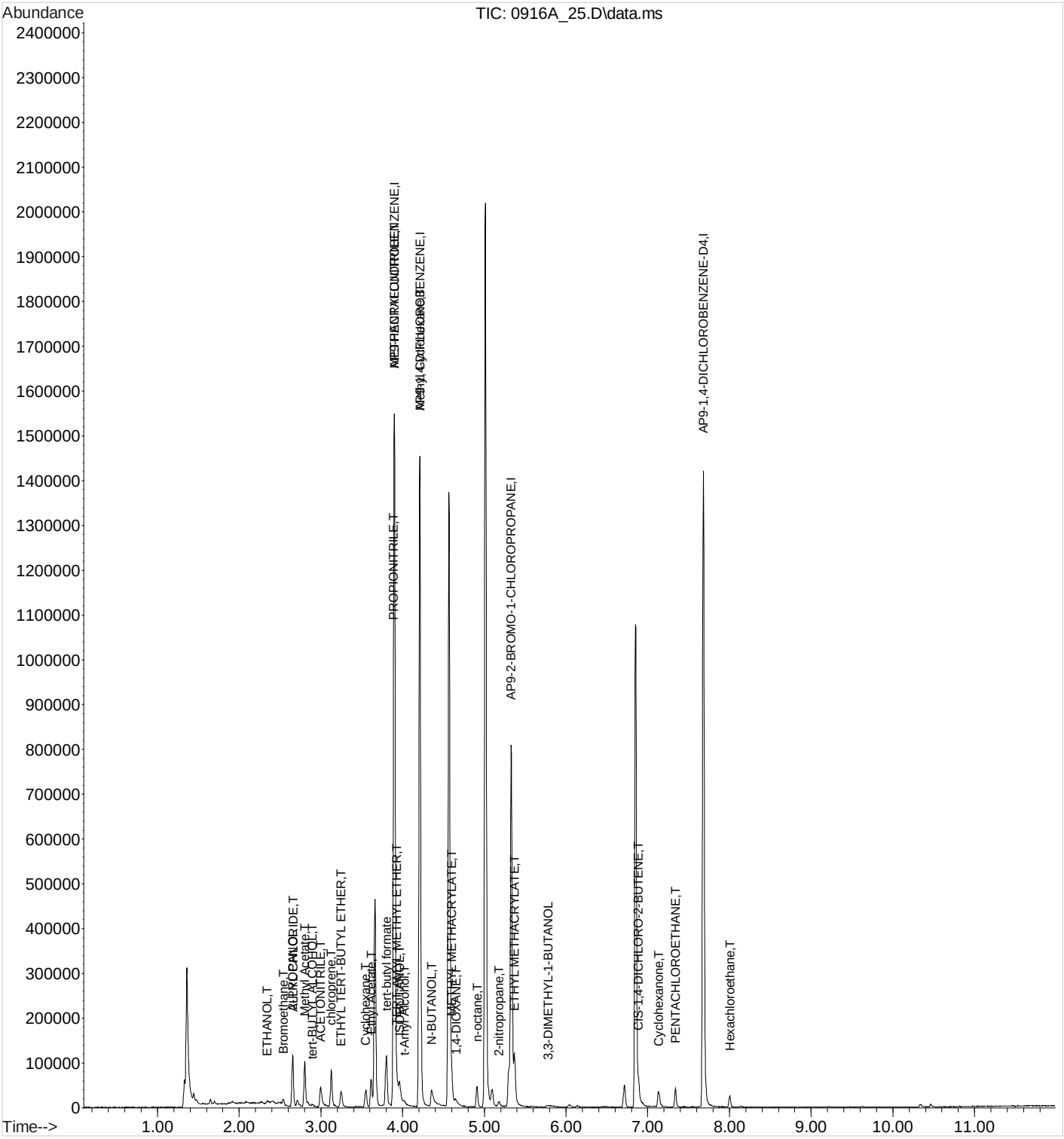
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.342	45	7736	96.8306828 ppb	#	99
98)	Bromoethane	2.541	108	5943	1.1185262 ppb		94
99)	2-PROPANOL	2.653	45	2229	4.2338101 ppb	#	67
100)	Methyl Acetate	2.801	43	103751	20.1836116 ppb	#	98
101)	ACETONITRILE	2.998	41	48660	47.8295740 ppb		94
102)	ALLYL CHLORIDE	2.657	76	18635	4.4167845 ppb		82
103)	tert-BUTYL ALCOHOL	2.895	59	5396	4.8219297 ppb	#	96
104)	chloroprene	3.126	53	42192	5.0577741 ppb		95
105)	ETHYL TERT-BUTYL ETHER	3.245	59	25033	0.9650697 ppb		100
106)	PROPIONITRILE	3.888	54	52393	47.4217879 ppb	#	90
107)	Ethyl Acetate	3.615	43	66522	9.1163279 ppb		97
108)	METHACRYLONITRILE	3.898	67	158930	45.2609252 ppb		99
109)	Cyclohexane	3.547	56	15496	1.0396598 ppb		96
110)	tert-butyl formate	3.801	59	29065	9.2419049 ppb	#	70
111)	ISOBUTANOL	3.962	41	19288	65.6888191 ppb	#	75
112)	t-Amyl Alcohol	4.020	59	2747	3.9595382 ppb	#	81
113)	TERT-AMYL METHYL ETHER	3.930	73	20423	0.8099395 ppb	#	95
115)	N-BUTANOL	4.354	56	27852	106.6712913 ppb		93
116)	Methyl Cyclohexane	4.210	83	24795	1.4330921 ppb	#	80
117)	2-nitropropane	5.181	43	6535	3.7382776 ppb	#	78
118)	METHYL METHACRYLATE	4.599	41	30902	3.7519148 ppb		88
119)	1,4-DIOXANE	4.657	88	10291	114.5396183 ppb		94
120)	n-octane	4.911	85	7040	0.7713110 ppb		83
121)	3,3-DIMETHYL-1-BUTANOL	5.779	57	2438	4.3149517 ppb	#	69
123)	ETHYL METHACRYLATE	5.370	69	43974	3.7779501 ppb	#	38
124)	CIS-1,4-DICHLORO-2-BUTENE	6.885	53	9118	3.9557696 ppb	#	28
125)	Cyclohexanone	7.132	55	16225	8.5357234 ppb		98
126)	PENTACHLOROETHANE	7.338	117	7414	10.3302575 ppb		93
127)	Hexachloroethane	8.004	117	4156	0.9491333 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 25.D
Acq On : 17 Sep 2014 12:23 am
Operator : 644
Sample : STD VMS 1 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 17 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:27:55 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 26.D
Acq On : 17 Sep 2014 12:45 am
Operator : 644
Sample : STD VMS 2.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 18 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:22 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	472583	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	873577	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	143969	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	313717	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.	d	
5) CHLOROMETHANE	0.000		0	N.D.	d	
6) VINYL CHLORIDE	0.000		0	N.D.	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.	d	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	d	
12) ETHYL ETHER	0.000		0	N.D.	d	
13) ACROLEIN	0.000		0	N.D.		
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	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\091614a\
Data File : 0916A 26.D
Acq On : 17 Sep 2014 12:45 am
Operator : 644
Sample : STD VMS 2.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 18 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:22 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	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.	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.	
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.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.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.	
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.	
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\091614a\
Data File : 0916A 26.D
Acq On : 17 Sep 2014 12:45 am
Operator : 644
Sample : STD VMS 2.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 18 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:22 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

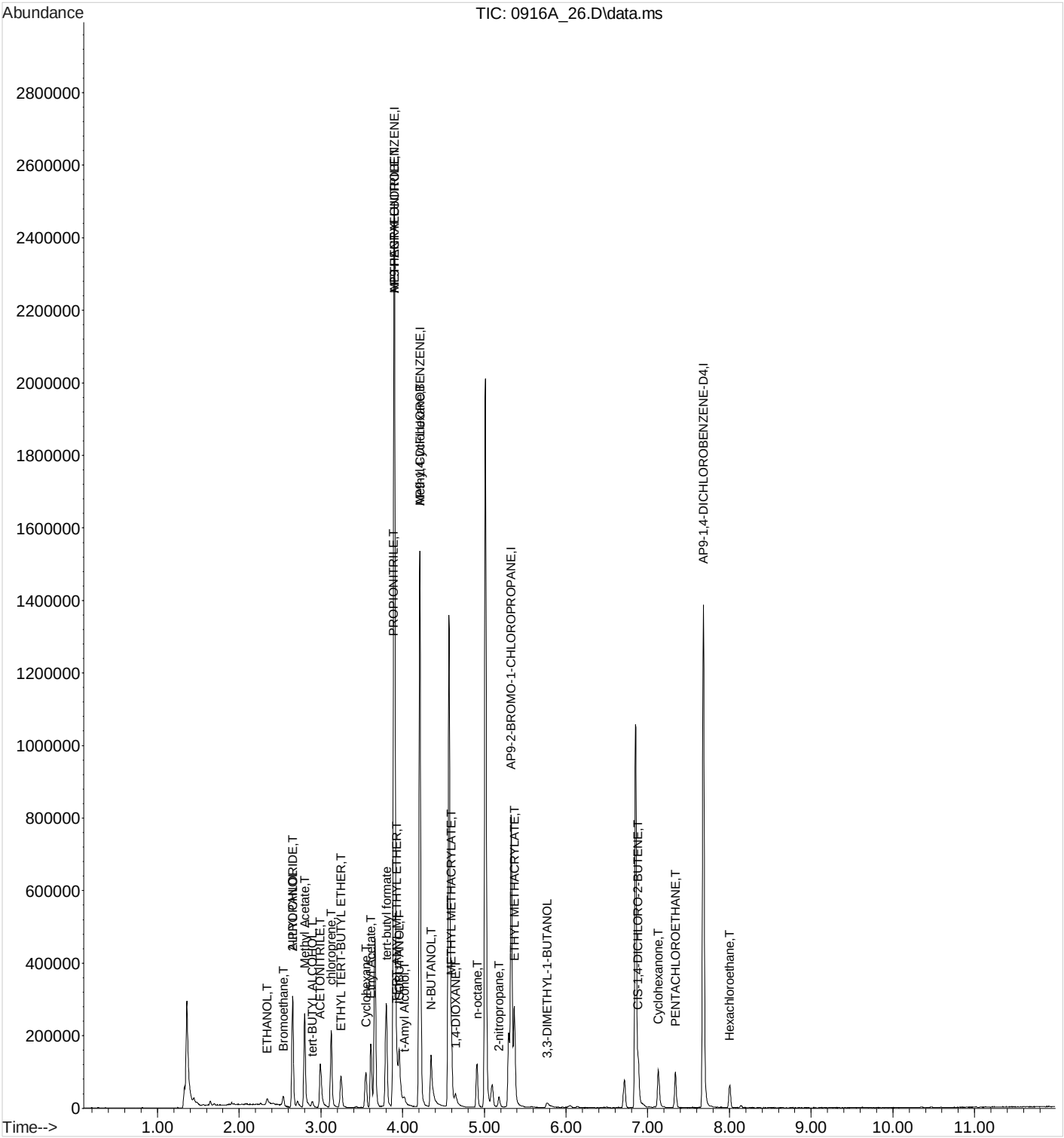
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	21749	266.0518004 ppb	#	95
98)	Bromoethane	2.541	108	14643	2.6934000 ppb		96
99)	2-PROPANOL	2.653	45	5668	10.5215937 ppb	#	80
100)	Methyl Acetate	2.801	43	260872	49.5980306 ppb	#	99
101)	ACETONITRILE	2.991	41	128406	123.3502691 ppb		99
102)	ALLYL CHLORIDE	2.653	76	53110	12.3022200 ppb		96
103)	tert-BUTYL ALCOHOL	2.894	59	13334	11.6450072 ppb		98
104)	chloroprene	3.126	53	107049	12.5412927 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.245	59	64412	2.4268501 ppb		99
106)	PROPIONITRILE	3.885	54	128948	114.0642748 ppb	#	95
107)	Ethyl Acetate	3.611	43	173710	23.2653631 ppb		98
108)	METHACRYLONITRILE	3.898	67	403445	112.2877184 ppb		99
109)	Cyclohexane	3.550	56	39147	2.5668501 ppb		98
110)	tert-butyl formate	3.801	59	78428	24.3720850 ppb		87
111)	ISOBUTANOL	3.955	41	53306	177.4233307 ppb		81
112)	t-Amyl Alcohol	4.023	59	6561	9.2424325 ppb		92
113)	TERT-AMYL METHYL ETHER	3.930	73	57040	2.2107668 ppb	#	95
115)	N-BUTANOL	4.348	56	98930	377.7055450 ppb		96
116)	Methyl Cyclohexane	4.209	83	46789	2.6958018 ppb		95
117)	2-nitropropane	5.177	43	16203	9.2396511 ppb	#	87
118)	METHYL METHACRYLATE	4.595	41	86641	10.4863420 ppb		91
119)	1,4-DIOXANE	4.647	88	24660	273.6058704 ppb		94
120)	n-octane	4.910	85	20978	2.2911584 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	5.772	57	11406	20.1237905 ppb	#	67
123)	ETHYL METHACRYLATE	5.367	69	118457	10.2023349 ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	24553	10.6786059 ppb	#	30
125)	Cyclohexanone	7.129	55	43727	23.0613064 ppb		97
126)	PENTACHLOROETHANE	7.338	117	16075	22.4537118 ppb		98
127)	Hexachloroethane	8.000	117	11141	2.5506711 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 26.D
Acq On : 17 Sep 2014 12:45 am
Operator : 644
Sample : STD VMS 2.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 18 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:22 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 27.D
Acq On : 17 Sep 2014 1:07 am
Operator : 644
Sample : STD VMS 5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 19 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:40 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	494194	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	917517	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	149215	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	324927	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. 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. d	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D. 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\091614a\
Data File : 0916A 27.D
Acq On : 17 Sep 2014 1:07 am
Operator : 644
Sample : STD VMS 5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 19 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:40 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	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.	
63) M&P-XYLENE	0.000		0	N.D.	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.	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.	
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.	
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.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.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\091614a\
Data File : 0916A 27.D
Acq On : 17 Sep 2014 1:07 am
Operator : 644
Sample : STD VMS 5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 19 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:40 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

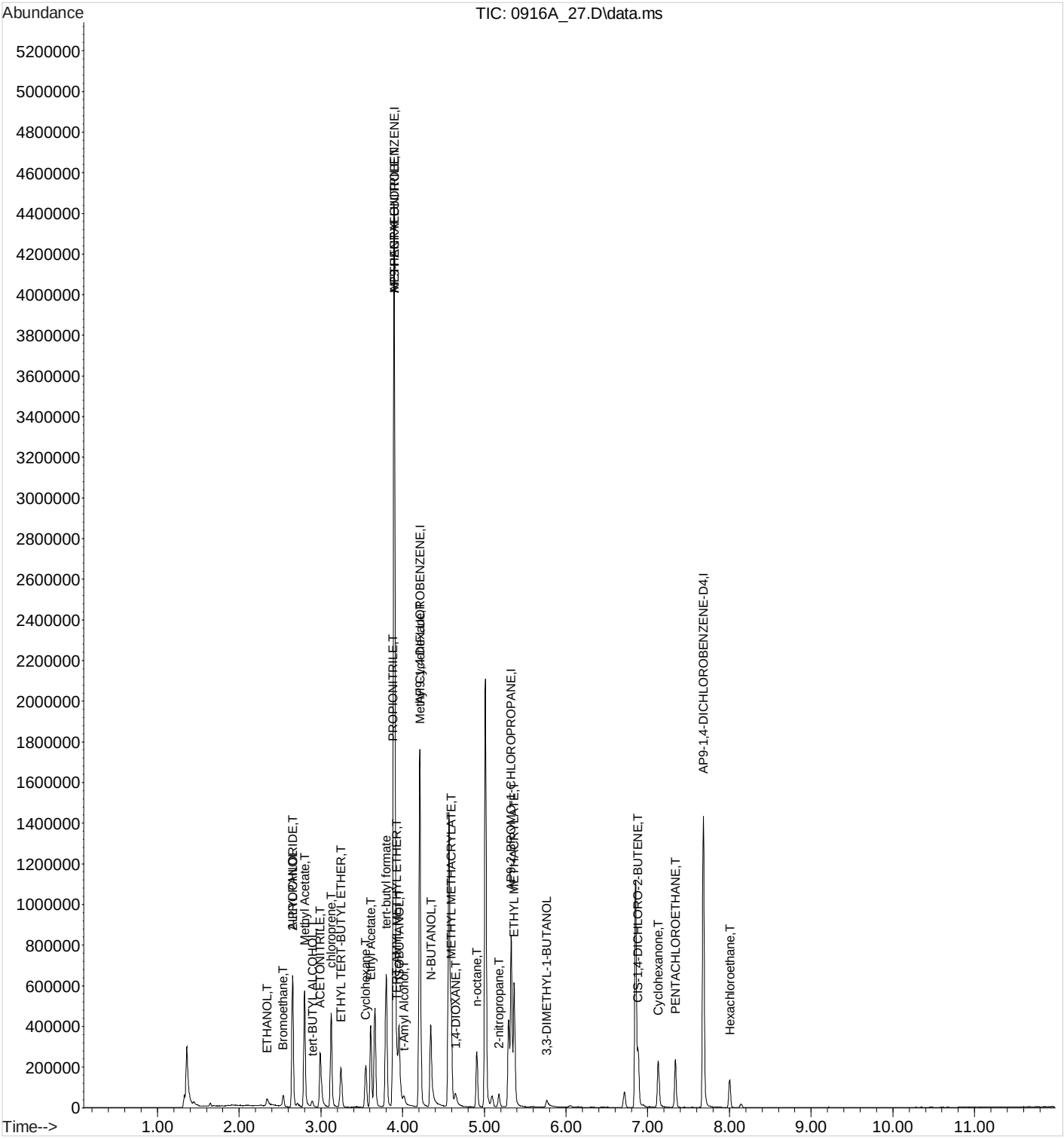
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	48796	570.8102434 ppb		99
98)	Bromoethane	2.538	108	29668	5.2184280 ppb		92
99)	2-PROPANOL	2.653	45	12478	22.1501816 ppb	#	81
100)	Methyl Acetate	2.798	43	549928	99.9823692 ppb	#	99
101)	ACETONITRILE	2.991	41	270923	248.8750077 ppb		99
102)	ALLYL CHLORIDE	2.653	76	112918	25.0121481 ppb		95
103)	tert-BUTYL ALCOHOL	2.894	59	25546	21.3345185 ppb		96
104)	chloroprene	3.126	53	228047	25.5484573 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	141392	5.0942662 ppb		99
106)	PROPIONITRILE	3.882	54	289688	245.0451804 ppb		97
107)	Ethyl Acetate	3.608	43	372562	47.7160185 ppb		99
108)	METHACRYLONITRILE	3.898	67	891534	237.2829083 ppb		100
109)	Cyclohexane	3.547	56	79101	4.9598052 ppb		98
110)	tert-butyl formate	3.798	59	183189	54.4379248 ppb		93
111)	ISOBUTANOL	3.955	41	171860	547.0034519 ppb	#	81
112)	t-Amyl Alcohol	4.017	59	17307	23.3141007 ppb	#	83
113)	TERT-AMYL METHYL ETHER	3.930	73	127081	4.7100409 ppb	#	98
115)	N-BUTANOL	4.345	56	234351	851.8815924 ppb		97
116)	Methyl Cyclohexane	4.213	83	94082	5.1610469 ppb		100
117)	2-nitropropane	5.177	43	37489	20.3540609 ppb	#	92
118)	METHYL METHACRYLATE	4.595	41	194738	22.4408001 ppb		93
119)	1,4-DIOXANE	4.647	88	47833	505.2973613 ppb		96
120)	n-octane	4.907	85	45892	4.7721610 ppb		96
121)	3,3-DIMETHYL-1-BUTANOL	5.766	57	26401	44.3490038 ppb		92
123)	ETHYL METHACRYLATE	5.364	69	266661	22.1592396 ppb		95
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	56990	23.9147120 ppb	#	30
125)	Cyclohexanone	7.129	55	94317	47.9933103 ppb		99
126)	PENTACHLOROETHANE	7.338	117	39936	53.8218016 ppb		98
127)	Hexachloroethane	8.004	117	25495	5.6317298 ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 27.D
Acq On : 17 Sep 2014 1:07 am
Operator : 644
Sample : STD VMS 5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 19 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:40 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 28.D
Acq On : 17 Sep 2014 1:29 am
Operator : 644
Sample : STD VMS 7.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 20 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	517426	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	962965	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	161442	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	339512	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. d	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D. 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.	

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 28.D
Acq On : 17 Sep 2014 1:29 am
Operator : 644
Sample : STD VMS 7.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 20 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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.	
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.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.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.	
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.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	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	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.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\091614a\
Data File : 0916A 28.D
Acq On : 17 Sep 2014 1:29 am
Operator : 644
Sample : STD VMS 7.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 20 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

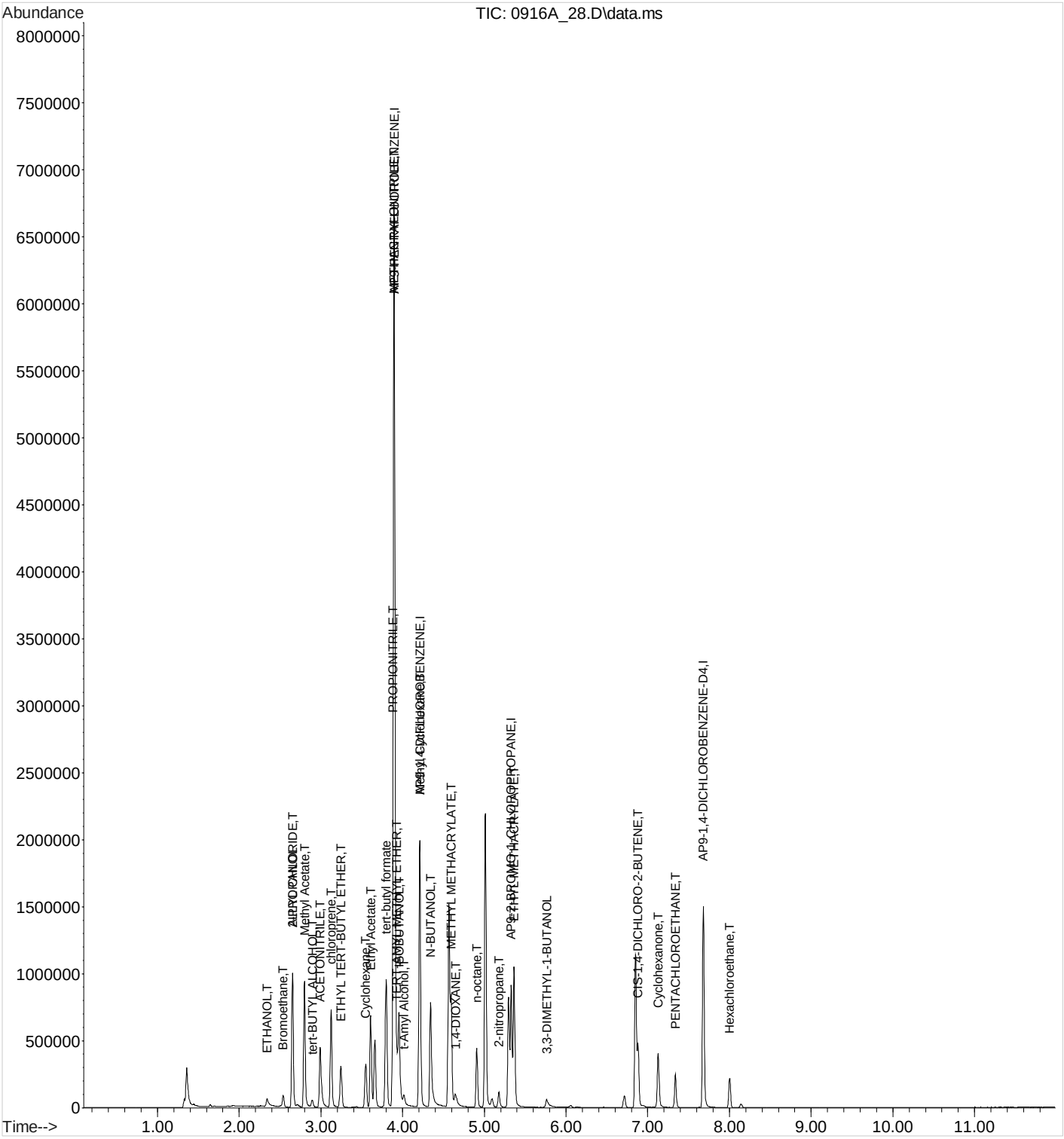
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	74413	831.3914805 ppb	#	99
98)	Bromoethane	2.538	108	47853	8.0391442 ppb		100
99)	2-PROPANOL	2.653	45	20911	35.4532728 ppb	#	88
100)	Methyl Acetate	2.798	43	890558	154.6425567 ppb	#	100
101)	ACETONITRILE	2.991	41	444309	389.8250486 ppb		99
102)	ALLYL CHLORIDE	2.653	76	178810	37.8293464 ppb		96
103)	tert-BUTYL ALCOHOL	2.894	59	44775	35.7145147 ppb		96
104)	chloroprene	3.123	53	358148	38.3223443 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	220860	7.6001661 ppb		98
106)	PROPIONITRILE	3.882	54	476053	384.6096589 ppb		99
107)	Ethyl Acetate	3.608	43	623195	76.2322649 ppb		99
108)	METHACRYLONITRILE	3.894	67	1478960	375.9535545 ppb		100
109)	Cyclohexane	3.547	56	128441	7.6919339 ppb		99
110)	tert-butyl formate	3.798	59	279954	79.4580801 ppb		97
111)	ISOBUTANOL	3.956	41	287799	874.8906208 ppb	#	79
112)	t-Amyl Alcohol	4.017	59	28861	37.1327805 ppb		91
113)	TERT-AMYL METHYL ETHER	3.930	73	210200	7.4409088 ppb	#	96
115)	N-BUTANOL	4.341	56	436162	1510.6500375 ppb		98
116)	Methyl Cyclohexane	4.210	83	145406	7.6000632 ppb		98
117)	2-nitropropane	5.177	43	67942	35.1470725 ppb		97
118)	METHYL METHACRYLATE	4.592	41	328175	36.0326947 ppb		97
119)	1,4-DIOXANE	4.647	88	72746	732.2040823 ppb	#	94
120)	n-octane	4.907	85	72883	7.2211765 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	44451	71.1456980 ppb		94
123)	ETHYL METHACRYLATE	5.364	69	461786	35.4676216 ppb		98
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	98261	38.1104110 ppb		89
125)	Cyclohexanone	7.126	55	160694	75.5764248 ppb		99
126)	PENTACHLOROETHANE	7.338	117	41812	52.0823489 ppb		98
127)	Hexachloroethane	8.000	117	39770	8.1196692 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 28.D
Acq On : 17 Sep 2014 1:29 am
Operator : 644
Sample : STD VMS 7.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 20 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 29.D
Acq On : 17 Sep 2014 1:52 am
Operator : 644
Sample : MSTD VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 21 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:27 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	537306	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1012134	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	173559	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	339722	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. 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.	

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 29.D
Acq On : 17 Sep 2014 1:52 am
Operator : 644
Sample : MSTD VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 21 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:27 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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.	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.	
63) M&P-XYLENE	0.000		0	N.D.	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.	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.	
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.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	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	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 29.D
Acq On : 17 Sep 2014 1:52 am
Operator : 644
Sample : MSTD VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 21 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:27 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

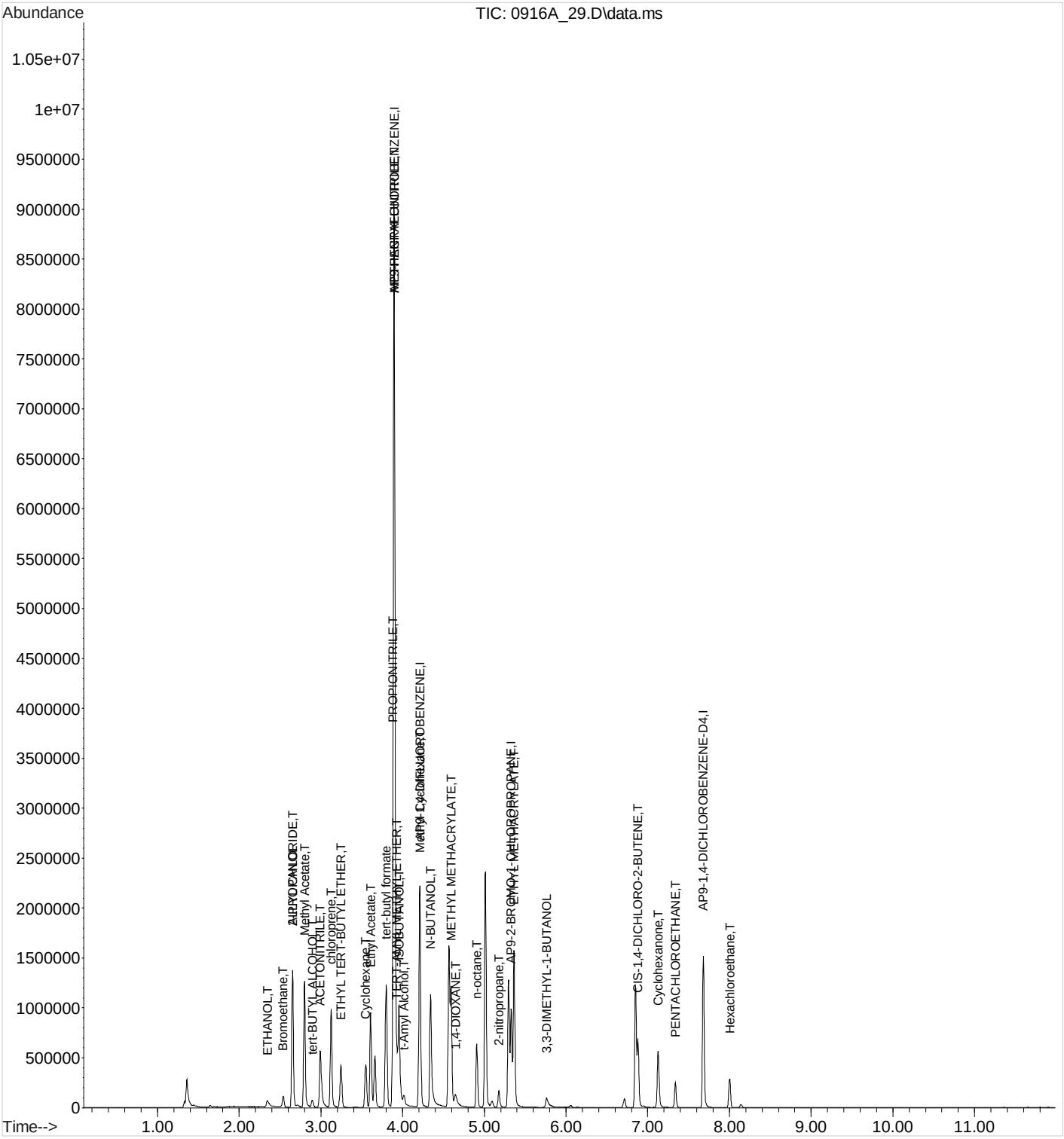
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.345	45	92943	1000.0000000	ppb		100
98)	Bromoethane	2.538	108	61812	10.0000000	ppb		100
99)	2-PROPANOL	2.653	45	30624	50.0000000	ppb		100
100)	Methyl Acetate	2.798	43	1196015	200.0000000	ppb	#	100
101)	ACETONITRILE	2.991	41	591778	500.0000000	ppb		100
102)	ALLYL CHLORIDE	2.653	76	245418	50.0000000	ppb		100
103)	tert-BUTYL ALCOHOL	2.895	59	65093	50.0000000	ppb		100
104)	chloroprene	3.123	53	485237	50.0000000	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.245	59	301764	10.0000000	ppb		100
106)	PROPIONITRILE	3.882	54	642656	500.0000000	ppb		100
107)	Ethyl Acetate	3.608	43	848904	100.0000000	ppb		100
108)	METHACRYLONITRILE	3.898	67	2042517	500.0000000	ppb		100
109)	Cyclohexane	3.547	56	173397	10.0000000	ppb		100
110)	tert-butyl formate	3.798	59	365866	100.0000000	ppb		100
111)	ISOBUTANOL	3.956	41	341593	1000.0000000	ppb		100
112)	t-Amyl Alcohol	4.017	59	40355	50.0000000	ppb		100
113)	TERT-AMYL METHYL ETHER	3.930	73	293346	10.0000000	ppb	#	100
115)	N-BUTANOL	4.341	56	606934	2000.0000000	ppb		100
116)	Methyl Cyclohexane	4.213	83	201091	10.0000000	ppb		100
117)	2-nitropropane	5.177	43	101589	50.0000000	ppb		100
118)	METHYL METHACRYLATE	4.592	41	478637	50.0000000	ppb		100
119)	1,4-DIOXANE	4.647	88	104425	1000.0000000	ppb		100
120)	n-octane	4.907	85	106083	10.0000000	ppb		100
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	65669	100.0000000	ppb		100
123)	ETHYL METHACRYLATE	5.364	69	699857	50.0000000	ppb		100
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	138592	50.0000000	ppb		100
125)	Cyclohexanone	7.126	55	228583	100.0000000	ppb		100
126)	PENTACHLOROETHANE	7.338	117	43153	50.0000000	ppb		100
127)	Hexachloroethane	8.004	117	52656	10.0000000	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 29.D
Acq On : 17 Sep 2014 1:52 am
Operator : 644
Sample : MSTD VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 21 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:27 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 30.D
Acq On : 17 Sep 2014 3:12 am
Operator : 644
Sample : STD VMS 12.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 22 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:49 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	699817	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1271203	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	218333	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	447249	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. 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. 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\091614a\
Data File : 0916A 30.D
Acq On : 17 Sep 2014 3:12 am
Operator : 644
Sample : STD VMS 12.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 22 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:49 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	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.	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.	
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.	
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.	
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.	
88) n-Butylbenzene	0.000		0	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	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 30.D
Acq On : 17 Sep 2014 3:12 am
Operator : 644
Sample : STD VMS 12.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 22 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:49 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

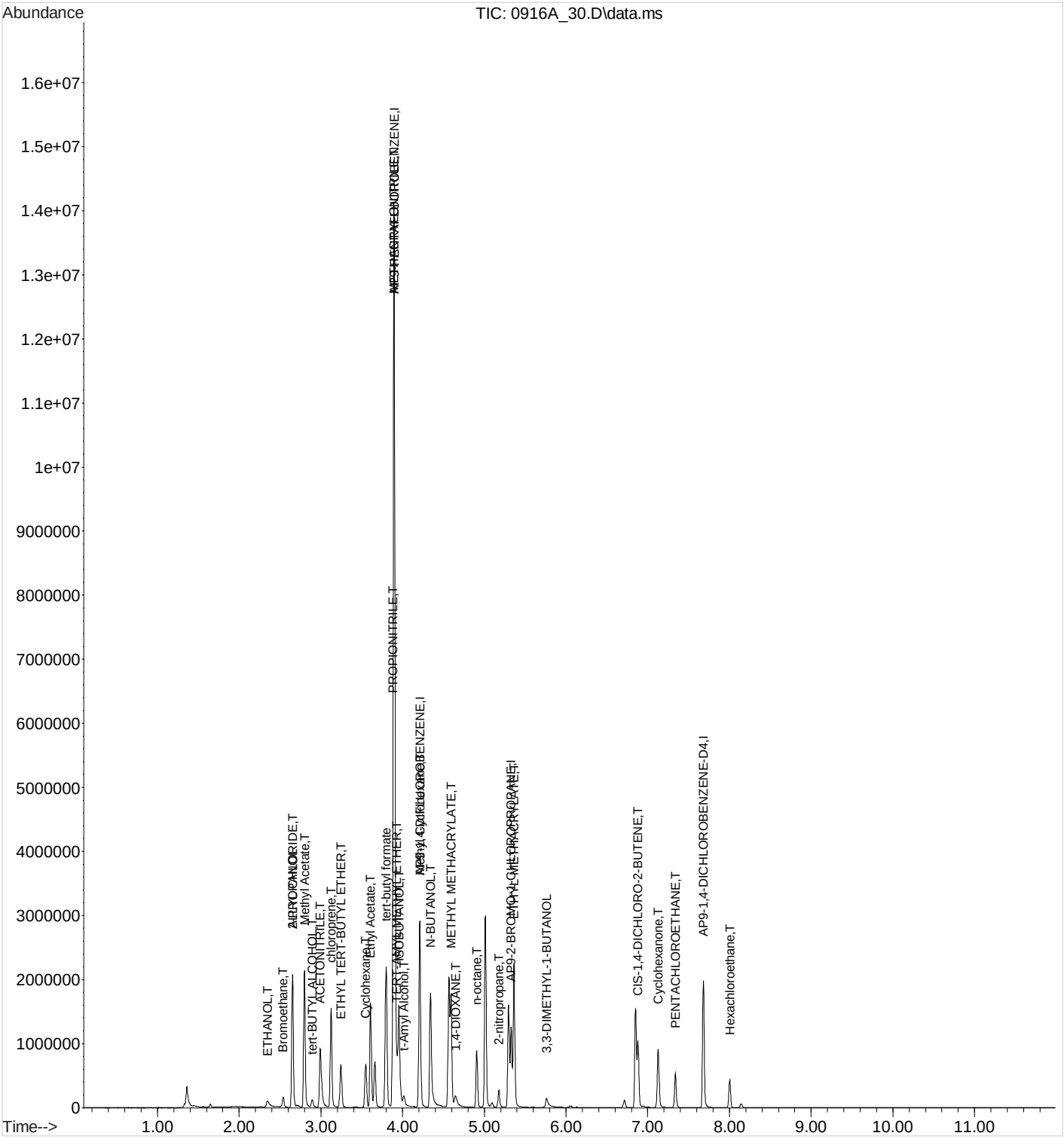
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.345	45	156616	1293.7687100	ppb	#	98
98)	Bromoethane	2.538	108	92643	11.5073949	ppb		97
99)	2-PROPANOL	2.653	45	43559	54.6038407	ppb	#	92
100)	Methyl Acetate	2.798	43	2009397	257.9861080	ppb	#	99
101)	ACETONITRILE	2.991	41	983680	638.1198173	ppb		99
102)	ALLYL CHLORIDE	2.653	76	365212	57.1275807	ppb		96
103)	tert-BUTYL ALCOHOL	2.894	59	108165	63.7910386	ppb		99
104)	chloroprene	3.123	53	751724	59.4718863	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	475410	12.0958972	ppb		100
106)	PROPIONITRILE	3.882	54	1077085	643.3963867	ppb		95
107)	Ethyl Acetate	3.605	43	1445519	130.7381775	ppb		99
108)	METHACRYLONITRILE	3.894	67	3232495	607.5463112	ppb		99
109)	Cyclohexane	3.547	56	265684	11.7641627	ppb		97
110)	tert-butyl formate	3.798	59	679159	142.5235430	ppb		96
111)	ISOBUTANOL	3.956	41	606241	1362.6161876	ppb		84
112)	t-Amyl Alcohol	4.017	59	62983	59.9146736	ppb		100
113)	TERT-AMYL METHYL ETHER	3.927	73	416287	10.8955681	ppb	#	98
115)	N-BUTANOL	4.341	56	989865	2597.0936011	ppb		97
116)	Methyl Cyclohexane	4.210	83	277412	10.9838784	ppb		98
117)	2-nitropropane	5.177	43	157919	61.8843465	ppb		98
118)	METHYL METHACRYLATE	4.592	41	688719	57.2834156	ppb		99
119)	1,4-DIOXANE	4.647	88	154518	1178.1421646	ppb		94
120)	n-octane	4.907	85	147529	11.0727300	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	106742	129.4189994	ppb		92
123)	ETHYL METHACRYLATE	5.364	69	989927	56.2201008	ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	210872	60.4753675	ppb		94
125)	Cyclohexanone	7.126	55	364272	126.6804563	ppb		99
126)	PENTACHLOROETHANE	7.338	117	93195	85.8379586	ppb		99
127)	Hexachloroethane	8.004	117	78655	11.8742511	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 30.D
Acq On : 17 Sep 2014 3:12 am
Operator : 644
Sample : STD VMS 12.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 22 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:49 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 31.D
Acq On : 17 Sep 2014 3:34 am
Operator : 644
Sample : STD VMS 15 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:37 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	628586	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1126640	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	193605	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	382657	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. 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.	

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 31.D
Acq On : 17 Sep 2014 3:34 am
Operator : 644
Sample : STD VMS 15 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:37 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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.	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.	
63) M&P-XYLENE	0.000		0	N.D.	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	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.	
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.	
88) n-Butylbenzene	0.000		0	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	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 31.D
Acq On : 17 Sep 2014 3:34 am
Operator : 644
Sample : STD VMS 15 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:37 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

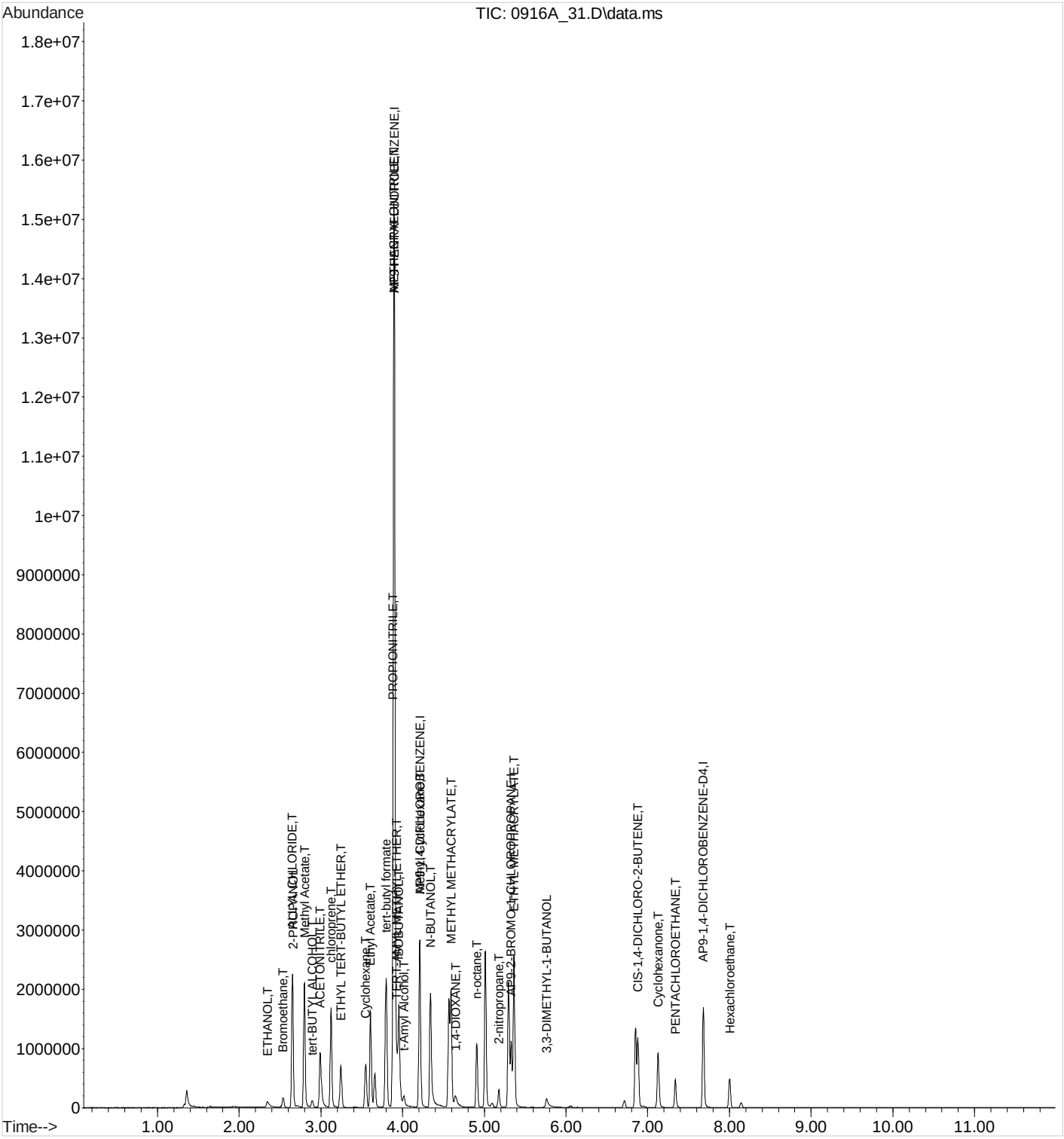
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.345	45	146752	1349.6598496 ppb	#	97
98)	Bromoethane	2.538	108	96264	13.3121467 ppb		95
99)	2-PROPANOL	2.657	45	43682	60.9631766 ppb		97
100)	Methyl Acetate	2.798	43	1980490	283.0890098 ppb	#	100
101)	ACETONITRILE	2.991	41	967276	698.5839235 ppb		100
102)	ALLYL CHLORIDE	2.650	76	403008	70.1833744 ppb		98
103)	tert-BUTYL ALCOHOL	2.895	59	102099	67.0369414 ppb		98
104)	chloroprene	3.123	53	813321	71.6366169 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	500139	14.1670778 ppb		99
106)	PROPIONITRILE	3.882	54	1132716	753.3025873 ppb		98
107)	Ethyl Acetate	3.605	43	1438359	144.8323913 ppb		99
108)	METHACRYLONITRILE	3.895	67	3530221	738.6916752 ppb		99
109)	Cyclohexane	3.547	56	289284	14.2606664 ppb		98
110)	tert-butyl formate	3.798	59	681438	159.2066786 ppb		96
111)	ISOBUTANOL	3.953	41	567935	1421.1720491 ppb		100
112)	t-Amyl Alcohol	4.017	59	68666	72.7229333 ppb		97
113)	TERT-AMYL METHYL ETHER	3.927	73	491732	14.3286504 ppb	#	98
115)	N-BUTANOL	4.342	56	1055332	3124.1399724 ppb		96
116)	Methyl Cyclohexane	4.210	83	326829	14.6009394 ppb		96
117)	2-nitropropane	5.178	43	171851	75.9850635 ppb		96
118)	METHYL METHACRYLATE	4.592	41	784862	73.6562980 ppb		98
119)	1,4-DIOXANE	4.647	88	166409	1431.6114878 ppb	#	95
120)	n-octane	4.907	85	178744	15.1369553 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	106429	145.5970000 ppb		95
123)	ETHYL METHACRYLATE	5.364	69	1166237	74.6926864 ppb		100
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	236499	76.4877210 ppb		95
125)	Cyclohexanone	7.126	55	369201	144.7936481 ppb		99
126)	PENTACHLOROETHANE	7.338	117	80208	83.3119440 ppb		99
127)	Hexachloroethane	8.004	117	93856	15.9788215 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 31.D
Acq On : 17 Sep 2014 3:34 am
Operator : 644
Sample : STD VMS 15 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:37 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 32.D
Acq On : 17 Sep 2014 3:56 am
Operator : 644
Sample : STD VMS 17.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	608863	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1074854	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	183160	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	355776	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. 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\091614a\
Data File : 0916A 32.D
Acq On : 17 Sep 2014 3:56 am
Operator : 644
Sample : STD VMS 17.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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.	
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.	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.	
63) M&P-XYLENE	0.000		0	N.D.	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.	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.	
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.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	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	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 32.D
Acq On : 17 Sep 2014 3:56 am
Operator : 644
Sample : STD VMS 17.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

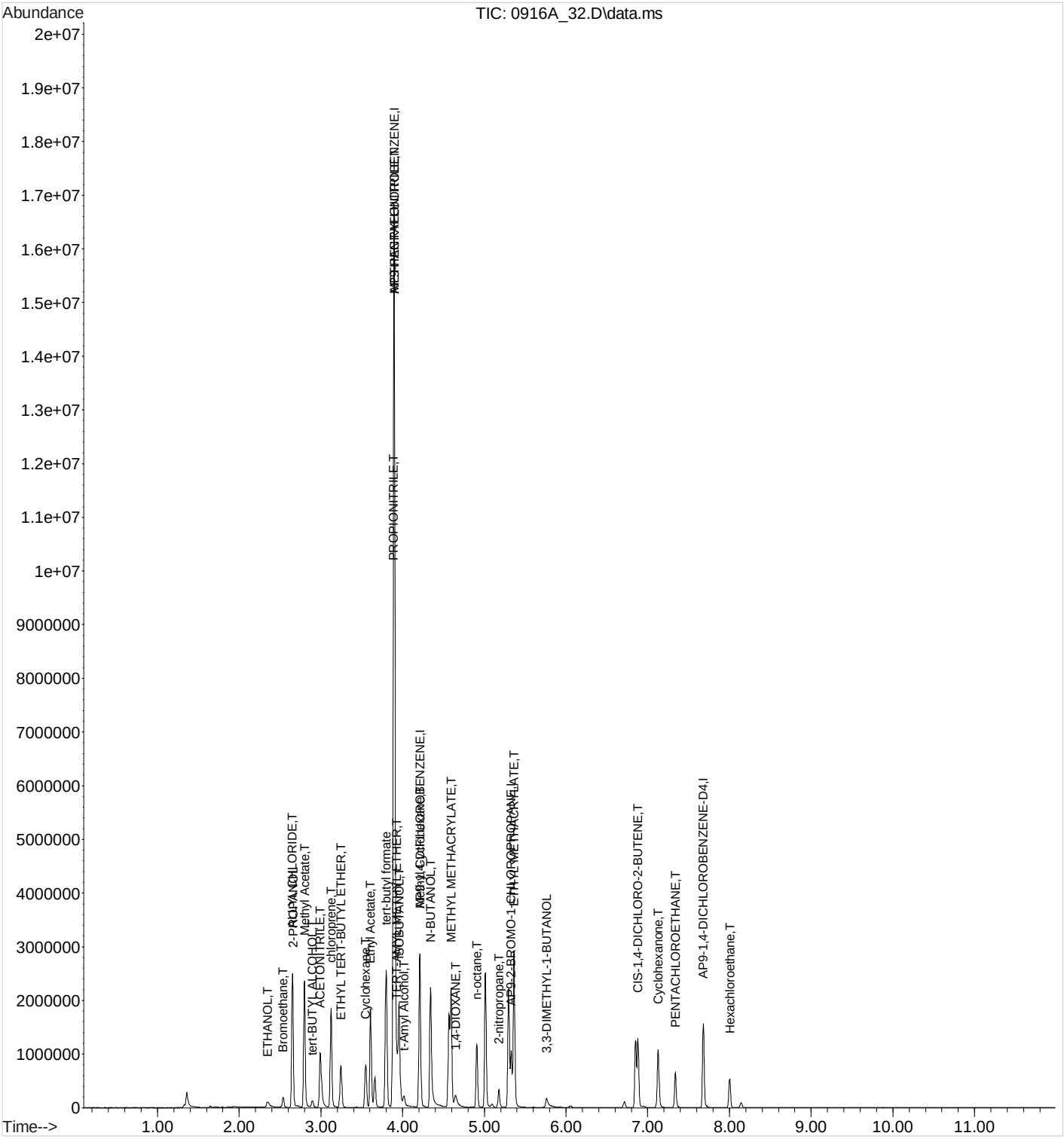
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.345	45	165762	1573.8755862 ppb	#	99
98)	Bromoethane	2.538	108	110743	15.8104997 ppb		99
99)	2-PROPANOL	2.657	45	53120	76.5364407 ppb		94
100)	Methyl Acetate	2.798	43	2217581	327.2464683 ppb	#	100
101)	ACETONITRILE	2.991	41	1101582	821.3535273 ppb		100
102)	ALLYL CHLORIDE	2.650	76	443936	79.8152840 ppb		97
103)	tert-BUTYL ALCOHOL	2.895	59	112563	76.3015715 ppb		98
104)	chloroprene	3.123	53	901682	81.9920231 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	554942	16.2286455 ppb		99
106)	PROPIONITRILE	3.885	54	1267403	870.1783535 ppb		96
107)	Ethyl Acetate	3.605	43	1609564	167.3215107 ppb		99
108)	METHACRYLONITRILE	3.898	67	3965063	856.5575030 ppb		99
109)	Cyclohexane	3.547	56	319920	16.2817814 ppb		99
110)	tert-butyl formate	3.798	59	806348	194.4923697 ppb		94
111)	ISOBUTANOL	3.956	41	748088	1932.6171670 ppb		84
112)	t-Amyl Alcohol	4.017	59	75599	82.6591263 ppb		93
113)	TERT-AMYL METHYL ETHER	3.927	73	550989	16.5754323 ppb	#	98
115)	N-BUTANOL	4.341	56	1208534	3750.0403332 ppb		97
116)	Methyl Cyclohexane	4.210	83	367612	17.2141500 ppb		98
117)	2-nitropropane	5.177	43	191456	88.7321158 ppb		97
118)	METHYL METHACRYLATE	4.592	41	869974	85.5772935 ppb		99
119)	1,4-DIOXANE	4.650	88	196718	1773.8959963 ppb		95
120)	n-octane	4.907	85	193482	17.1744688 ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	119999	172.0702387 ppb		95
123)	ETHYL METHACRYLATE	5.364	69	1303694	88.2577527 ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	255670	87.4033579 ppb		93
125)	Cyclohexanone	7.126	55	423293	175.4743582 ppb		100
126)	PENTACHLOROETHANE	7.338	117	113557	124.6778849 ppb		99
127)	Hexachloroethane	8.004	117	99028	17.8207775 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 32.D
Acq On : 17 Sep 2014 3:56 am
Operator : 644
Sample : STD VMS 17.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 33.D
Acq On : 17 Sep 2014 4:18 am
Operator : 644
Sample : STD VMS 20 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:34:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	639830	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1109708	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	187288	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	367930	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. 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\091614a\
Data File : 0916A 33.D
Acq On : 17 Sep 2014 4:18 am
Operator : 644
Sample : STD VMS 20 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:34:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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.	
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.	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.	
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.	
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.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 33.D
Acq On : 17 Sep 2014 4:18 am
Operator : 644
Sample : STD VMS 20 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:34:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

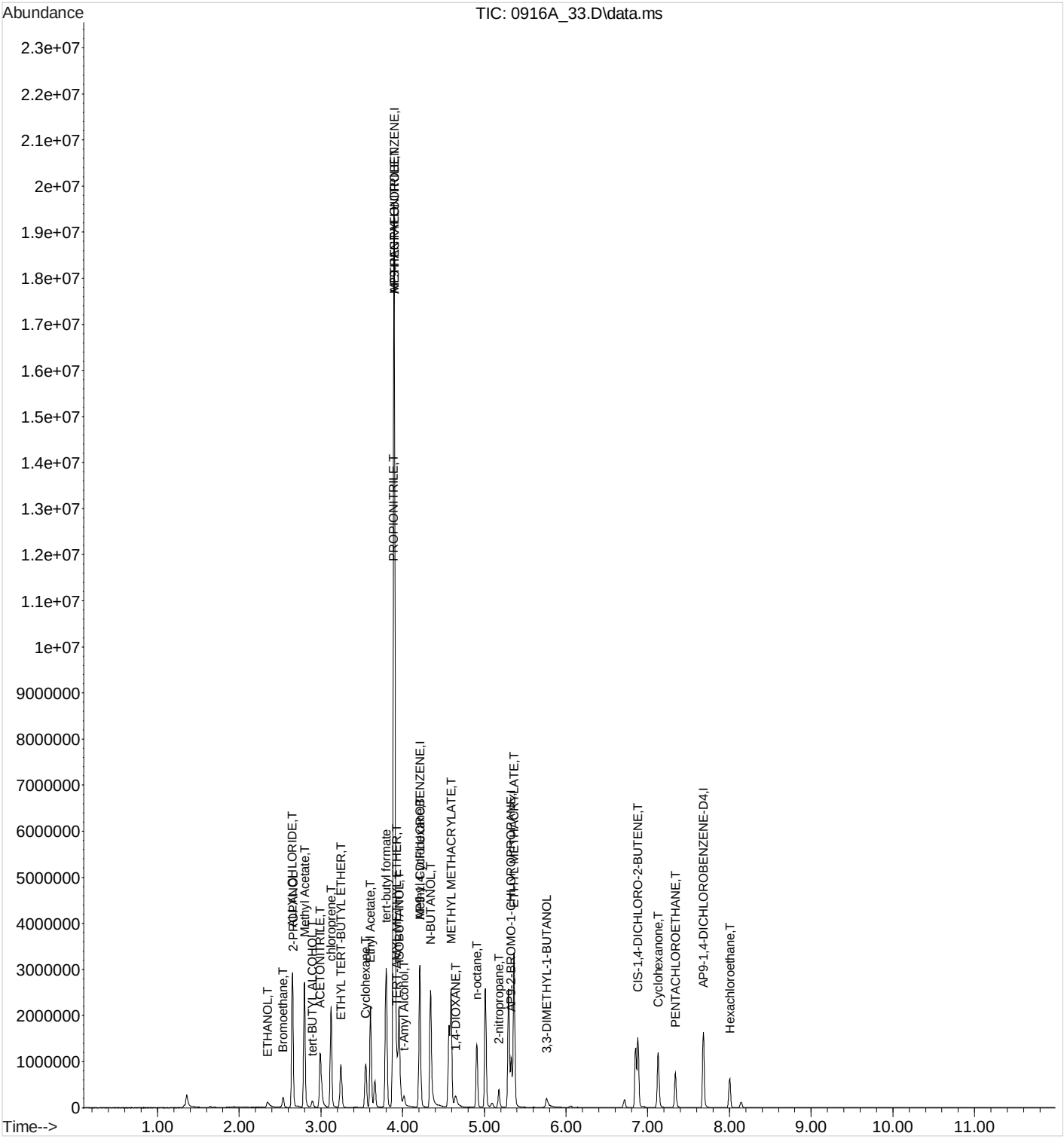
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.348	45	185231	1673.6092826	ppb	#	96
98)	Bromoethane	2.538	108	131830	17.9101221	ppb		98
99)	2-PROPANOL	2.657	45	60824	83.3950276	ppb	#	91
100)	Methyl Acetate	2.798	43	2568739	360.7201806	ppb	#	99
101)	ACETONITRILE	2.991	41	1252470	888.6599581	ppb		99
102)	ALLYL CHLORIDE	2.650	76	519474	88.8759997	ppb		98
103)	tert-BUTYL ALCOHOL	2.895	59	128479	82.8752698	ppb		98
104)	chloroprene	3.123	53	1063319	92.0103665	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.245	59	657976	18.3104794	ppb		98
106)	PROPIONITRILE	3.885	54	1497925	978.6752331	ppb		95
107)	Ethyl Acetate	3.605	43	1891496	187.1129898	ppb		99
108)	METHACRYLONITRILE	3.898	67	4659599	957.8774711	ppb		99
109)	Cyclohexane	3.547	56	382532	18.5260692	ppb		99
110)	tert-butyl formate	3.798	59	966861	221.9213478	ppb		93
111)	ISOBUTANOL	3.956	41	727951	1789.5765308	ppb		99
112)	t-Amyl Alcohol	4.017	59	86840	90.3544525	ppb		98
113)	TERT-AMYL METHYL ETHER	3.930	73	633479	18.1346485	ppb	#	98
115)	N-BUTANOL	4.341	56	1373321	4127.5266581	ppb		97
116)	Methyl Cyclohexane	4.210	83	423113	19.1907979	ppb		98
117)	2-nitropropane	5.177	43	222068	99.6870163	ppb		97
118)	METHYL METHACRYLATE	4.592	41	1007817	96.0228769	ppb		98
119)	1,4-DIOXANE	4.647	88	218052	1904.5171494	ppb		95
120)	n-octane	4.907	85	227913	19.5953309	ppb		100
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	140083	194.5603452	ppb		93
123)	ETHYL METHACRYLATE	5.364	69	1515558	100.3391556	ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	298705	99.8645896	ppb		87
125)	Cyclohexanone	7.126	55	474716	192.4540827	ppb		99
126)	PENTACHLOROETHANE	7.338	117	132519	142.2899898	ppb		99
127)	Hexachloroethane	8.004	117	119788	21.0815547	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 33.D
Acq On : 17 Sep 2014 4:18 am
Operator : 644
Sample : STD VMS 20 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:34:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 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: L729026

C10-C40 Oil Range by Method 8015
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750211**
Analysis Date:	10/28/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG750211**
Description: **Diesel and Oil Ranges by Method 8015 (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729026-01 1x	10/20/2014	10/28/2014	10/28/2014
L729026-02 1x	10/20/2014	10/28/2014	10/28/2014
L729026-03 1x	10/20/2014	10/28/2014	10/28/2014
L729026-05 1x	10/20/2014	10/28/2014	10/28/2014
L729026-06 1x	10/20/2014	10/28/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750211**
Analysis Date:	10/28/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
SVGC16	Blank WG750211	Blank WG750211	1028_09.D	10/28/2014	5:37 PM
SVGC16	LCS WG750211	LCS WG750211	1028_10.D	10/28/2014	5:50 PM
SVGC16	LCSD WG750211	LCSD WG750211	1028_11.D	10/28/2014	6:02 PM
SVGC16	MS WG750211	MS WG750211	1028_20.D	10/28/2014	7:52 PM
SVGC16	MSD WG750211	MSD WG750211	1028_21.D	10/28/2014	8:04 PM
SVGC16	TU503-SB01-DS01	L729026-01	1028_30.D	10/28/2014	9:55 PM
SVGC16	TU503-SB01-NS01	L729026-02	1028_31.D	10/28/2014	10:07 PM
SVGC16	TU503-SB01-NS02	L729026-03	1028_32.D	10/28/2014	10:19 PM
SVGC16	TU503-SB05-NS01	L729026-05	1028_33.D	10/28/2014	10:31 PM
SVGC16	TU503-SB05-NS02	L729026-06	1028_34.D	10/28/2014	10:44 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750211**
Analysis Date:	10/28/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
C10-C28 Diesel Range		< 4.00	< 1.32	
C28-C40 Oil Range		< 4.00	< 1.32	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	60	45.765	76.3	50 - 100	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	60	47.124	78.5	50 - 100	

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	60	45.765	76.3	47.124	78.5	50 - 100		2.93	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750211**
Analysis Date:	10/28/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Matrix Spike / Matrix Spike Duplicate

L729021-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
C10-C28 Diesel Range	1	79.4	<1.61	51.918	65.4	56.903	71.7	50 - 100		9.16	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750211**
Analysis Date:	10/28/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	o-Terphenyl ppm	o-Terphenyl % Rec
L729026-01	SVGC16	1028_30	0.548	68.5
L729026-02	SVGC16	1028_31	0.521	65.2
L729026-03	SVGC16	1028_32	0.504	63.0
L729026-05	SVGC16	1028_33	0.519	64.9
L729026-06	SVGC16	1028_34	0.482	60.2
BLANK WG750211	SVGC16	1028_09	0.655	81.9
LCS WG750211	SVGC16	1028_10	0.624	78.0
LCSD WG750211	SVGC16	1028_11	0.634	79.2
MS WG750211	SVGC16	1028_20	0.596	74.5
MSD WG750211	SVGC16	1028_21	0.628	78.4

o-Terphenyl --O-TERPHENYL True Value: 0.8 ppm Limits: 50 - 150

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/28/14 1623	ICal Method	: EPHMOD
Lab File ID	: 1028_03	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.278537E+09	3000	0	0	426179	100		
C28-C40 Oil Range		0		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	19.86484	99.3	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	: SVGC16	Analysis Date	: 10/28/14 1636	ICal Method	: EPHMOD
Lab File ID	: 1028_04	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		0		0	0	0			
C28-C40 Oil Range		4.372947E+08	2000	0	0	218647.3	102		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	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	: SVGC16	Analysis Date	: 10/28/14 2053	ICal Method	: EPHMOD
Lab File ID	: 1028_25	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.267768E+09	3000	0	0	422589.3	99.1		
C28-C40 Oil Range		0		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	20.1257	101	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	: SVGC16	Analysis Date	: 10/28/14 2105	ICal Method	: EPHMOD
Lab File ID	: 1028_26	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		0		0	0	0			
C28-C40 Oil Range		4.03878E+08	2000	0	0	201939	93.8		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	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	: SVGC16	Analysis Date	: 10/28/14 2333	ICal Method	: EPHMOD
Lab File ID	: 1028_38	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.263508E+09	3000	0	0	421169.3	98.8		
C28-C40 Oil Range		0		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	19.31604	96.6	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	: SVGC16	Analysis Date	: 10/28/14 2345	ICal Method	: EPHMOD
Lab File ID	: 1028_39	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		0		0	0	0			
C28-C40 Oil Range		4.221429E+08	2000	0	0	211071.5	98.3		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	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	: SVGC16	Analysis Date	: 10/29/14 0249	ICal Method	: EPHMOD
Lab File ID	: 1028_54	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.280356E+09	3000	0	0	426785.3	100		
C28-C40 Oil Range		9532860		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	19.63826	98.2	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	: SVGC16	Analysis Date	: 10/29/14 0302	ICal Method	: EPHMOD
Lab File ID	: 1028_55	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		0		0	0	0			
C28-C40 Oil Range		4.19306E+08	2000	0	0	209653	97.6		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	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	: SVGC16	Analysis Date	: 10/29/14 0338	ICal Method	: EPHMOD
Lab File ID	: 1028_58	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.280101E+09	3000	0	0	426700.3	100		
C28-C40 Oil Range		9888231		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	19.59106	98	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

EPH SS Extractions Benchsheet

Batch #: WG750211

Analyst: DLT573 **Prep Start Date/Time:** 10/28/14 08:26:09 **Prep End Date/Time:** 10/28/14 17:13:15

Na2SO4: 14I15522 Exp. Date:03/15/15 **MeCl2:** 14J11832 Amt. Used: 25 Exp. Date:04/11/15 **Silica Gel:** Exp. Date: **Surrogate:** 14J28695 Amt. Used: 0.50 mL Exp. Date:11/22/14

LCS/MS Spike: 14J09772 Amt. Used: 0.50 mL Exp. Date:11/22/14

Sample Number	Qualifiers	Wet Weight Extracted(g)	Soil Description	Solvent Vol. (mL)	Final Volume(mL)	Extract Color	Sample Comments
BLANK		12.5	Sand	25	0.5	Colorless	
LCS		12.5	Sand	25	0.5	Colorless	
LCSD		12.5	Sand	25	0.5	Colorless	
MS(L729012-02)		12.5	Sand	25	0.5	Colorless	
MSD(L729012-02)		12.5	Sand	25	0.5	Colorless	
1. L729012-01		12.5	Clay	25	0.5	Colorless	EDD/QC4/DOD
2. L729012-02		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD
3. L729012-04		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD
4. L729012-05		12.5	Sand	25	0.5	Orange	EDD/QC4/DOD
5. L729012-06		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD
6. L729012-07		12.5	Sand	25	0.5	Yellow	EDD/QC4/DOD
7. L729021-01		12.5	Sand	25	0.5	Yellow	EDD/QC4/DOD
8. L729021-02		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD - MS/MSD sample
9. L729024-01		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD
10. L729024-02		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD
11. L729024-04		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD
12. L729024-05		12.5	Clay	25	0.5	Colorless	EDD/QC4/DOD
13. L729026-01		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD

14. L729026-02		12.5	Clay	25	0.5	Colorless	EDD/QC4/DOD
15. L729026-03		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD
16. L729026-05		12.5	Clay	25	0.5	Tan	EDD/QC4/DOD
17. L729026-06		12.5	Sand	25	0.5	Colorless	EDD/QC4/DOD

Comments:
dod syringe ESC25485

Reviewed By:KLM267 on 10/28/14 17:13:15

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/29/2014 2:27:14 PM
Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1028_01	INSTBLK	LA16J23N						1	1	10/28/14 1559	" "
2	1028_02	LOC FL 14J160051	LA16J23N						1	1	10/28/14 1611	" "
3	1028_03	ICV DRO 3000 PPM 14J16089	LA16J23N						1	1	10/28/14 1623	" "
4	1028_04	ICV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/28/14 1636	" "
5	1028_05	MECL2	LA16J23N						1	1	10/28/14 1648	" "
6	1028_06	BLANK	LA16J23N	WG750212	DRORLA	SS			1	0.04	10/28/14 1700	"soil surr14J28695/spk14J09772"
7	1028_07	LCS	LA16J23N	WG750212	DRORLA	SS			1	0.04	10/28/14 1713	"soil surr14J28695/spk14J09772"
8	1028_08	LCSD	LA16J23N	WG750212	DRORLA	SS			1	0.04	10/28/14 1725	"soil surr14J28695/spk14J09772"
9	1028_09	BLANK	LA16J23N	WG750211	DRORLA	SS			1	0.04	10/28/14 1737	"soil surr14J28695/spk14J09772"
10	1028_10	LCS	LA16J23N	WG750211	DRORLA	SS			1	0.04	10/28/14 1750	"soil surr14J28695/spk14J09772"
11	1028_11	LCSD	LA16J23N	WG750211	DRORLA	SS			1	0.04	10/28/14 1802	"soil surr14J28695/spk14J09772"
12	1028_12	L729012-01	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 1814	"soil surr14J28695/spk14J09772"
13	1028_13	L729012-02	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 1826	"soil surr14J28695/spk14J09772"
14	1028_14	L729012-04	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 1839	"soil surr14J28695/spk14J09772"
15	1028_15	L729012-05	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 1851	"soil surr14J28695/spk14J09772"
16	1028_16	L729012-06	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 1904	"soil surr14J28695/spk14J09772"
17	1028_17	L729012-07	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 1916	"soil surr14J28695/spk14J09772"
18	1028_18	L729021-01	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 1928	"soil surr14J28695/spk14J09772"
19	1028_19	L729021-02	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 1940	"soil surr14J28695/spk14J09772"
20	1028_20	MS	LA16J23N	WG750211	DRORLA	SS			1	0.04	10/28/14 1952	"soil surr14J28695/spk14J09772"
21	1028_21	MSD	LA16J23N	WG750211	DRORLA	SS			1	0.04	10/28/14 2004	"soil surr14J28695/spk14J09772"
22	1028_22	REDO L729024-01	LA16J23N	WG750211					1	0.04	10/28/14 2016	"soil surr14J28695/spk14J09772"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/29/2014 2:27:14 PM
Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1028_23	REDO L729024-02	LA16J23N	WG750211					1	0.04	10/28/14 2028	"soil surr14J28695/spk14J09772"
24	1028_24	INSTBLK	LA16J23N						1	1	10/28/14 2041	" "
25	1028_25	CCV DRO 3000 PPM 14J16089	LA16J23N						1	1	10/28/14 2053	" "
26	1028_26	CCV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/28/14 2105	" "
27	1028_27	MECL2	LA16J23N						1	1	10/28/14 2118	" "
28	1028_28	L729024-04	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 2130	"soil surr14J28695/spk14J09772"
29	1028_29	L729024-05	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 2142	"soil surr14J28695/spk14J09772"
30	1028_30	L729026-01	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 2155	"soil surr14J28695/spk14J09772"
31	1028_31	L729026-02	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 2207	"soil surr14J28695/spk14J09772"
32	1028_32	L729026-03	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 2219	"soil surr14J28695/spk14J09772"
33	1028_33	L729026-05	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 2231	"soil surr14J28695/spk14J09772"
34	1028_34	L729026-06	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	1	0.04	10/28/14 2244	"soil surr14J28695/spk14J09772"
35	1028_35	L729012-05	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	20	0.8	10/28/14 2256	"soil surr14J28695/spk14J09772"
36	1028_36	DILUTION L729012-07	LA16J23N	WG750211					20	0.8	10/28/14 2308	"soil surr14J28695/spk14J09772"
37	1028_37	INSTBLK	LA16J23N						1	1	10/28/14 2321	" "
38	1028_38	CCV DRO 3000 PPM 14J16089	LA16J23N						1	1	10/28/14 2333	" "
39	1028_39	CCV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/28/14 2345	" "
40	1028_40	MECL2	LA16J23N						1	1	10/28/14 2357	" "
41	1028_41	REDO L729030-01	LA16J23N	WG750212					1	0.04	10/29/14 0010	"soil surr14J28695/spk14J09772"
42	1028_42	L729030-02	LA16J23N	WG750212	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 0022	"soil surr14J28695/spk14J09772"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/29/2014 2:27:14 PM
Run ID : 102814
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
43	1028_43	L729030-04	LA16J23N	WG750212	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 0034	"soil surr14J28695/spk14J09772"
44	1028_44	L729030-05	LA16J23N	WG750212	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 0046	"soil surr14J28695/spk14J09772"
45	1028_45	MS	LA16J23N	WG750212	DRORLA	SS			1	0.04	10/29/14 0059	"soil surr14J28695/spk14J09772"
46	1028_46	MSD	LA16J23N	WG750212	DRORLA	SS			1	0.04	10/29/14 0111	"soil surr14J28695/spk14J09772"
47	1028_47	L729032-01	LA16J23N	WG750212	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 0123	"soil surr14J28695/spk14J09772"
48	1028_48	DILUTION L729032-02	LA16J23N	WG750212					1	0.04	10/29/14 0136	"soil surr14J28695/spk14J09772"
49	1028_49	REDO L729032-04	LA16J23N	WG750212					1	0.04	10/29/14 0148	"soil surr14J28695/spk14J09772"
50	1028_50	REDO L729032-05	LA16J23N	WG750212					1	0.04	10/29/14 0200	"soil surr14J28695/spk14J09772"
51	1028_51	REDO L729032-06	LA16J23N	WG750212					1	0.04	10/29/14 0213	"soil surr14J28695/spk14J09772"
52	1028_52	REDO L729032-07	LA16J23N	WG750212					1	0.04	10/29/14 0225	"soil surr14J28695/spk14J09772"
53	1028_53	INSTBLK	LA16J23N						1	1	10/29/14 0237	" "
54	1028_54	CCV DRO 3000 PPM 14J16089	LA16J23N						1	1	10/29/14 0249	" "
55	1028_55	CCV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/29/14 0302	" "
56	1028_56	MECL2	LA16J23N						1	1	10/29/14 0314	" "
57	1028_57	L729012-07	LA16J23N	WG750211	DRORLA	SS	URSTAZ	NM	100	4	10/29/14 0326	"soil surr14J28695/spk14J09772"
58	1028_58	CCV DRO 3000 PPM 14J16089	LA16J23N						1	1	10/29/14 0338	" "

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 03.D Vial: 3
Acq On : 10-28-2014 04:23:46 PM Operator: 543
Sample : ICV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 16:36:10 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	9623951	19.8648349	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 99324.17%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1278536636	2999.3725452	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

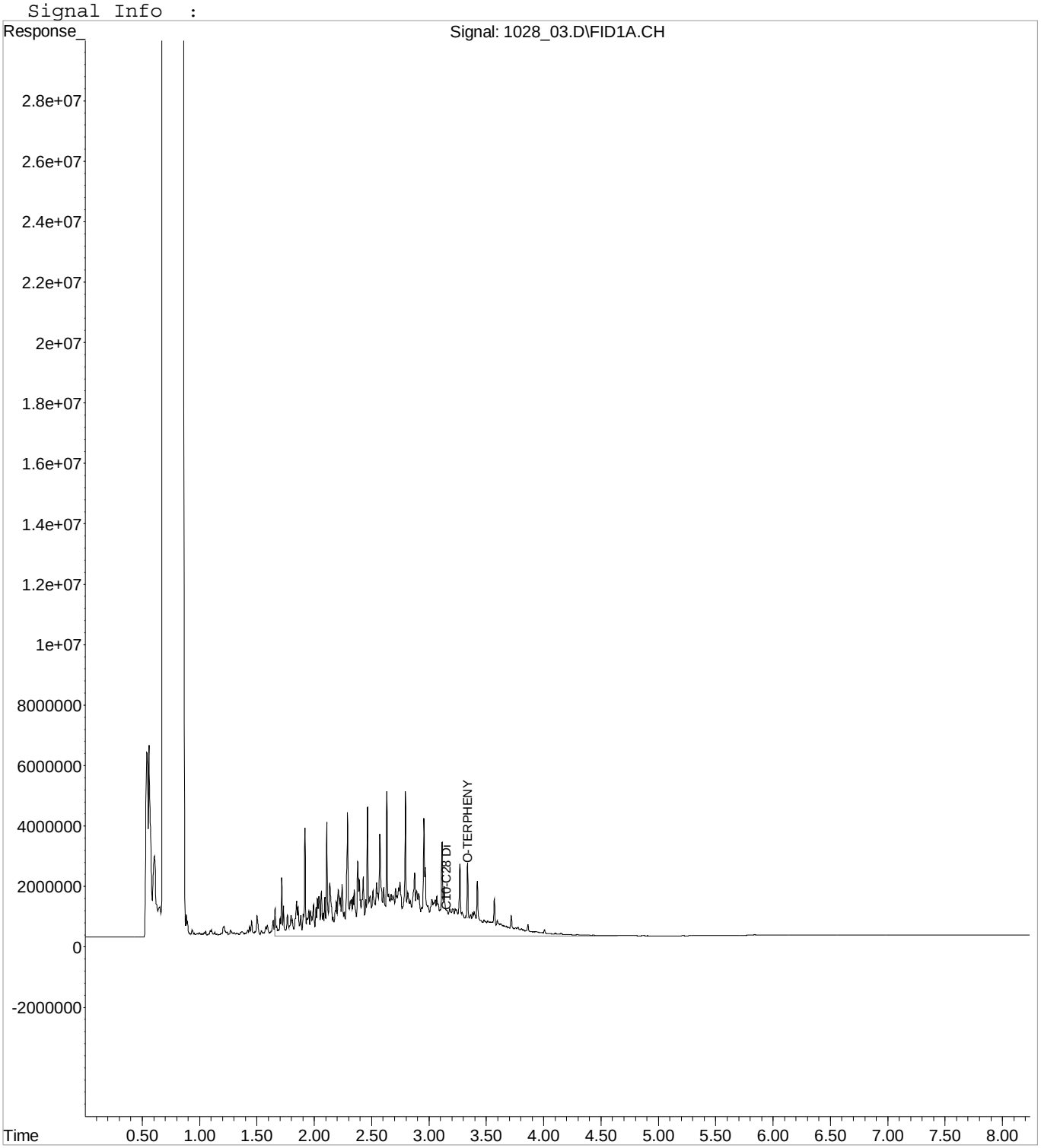
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 03.D Vial: 3
Acq On : 10-28-2014 04:23:46 PM Operator: 543
Sample : ICV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 16:36 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 04.D Vial: 4
Acq On : 10-28-2014 04:36:05 PM Operator: 543
Sample : ICV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 16:44:28 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

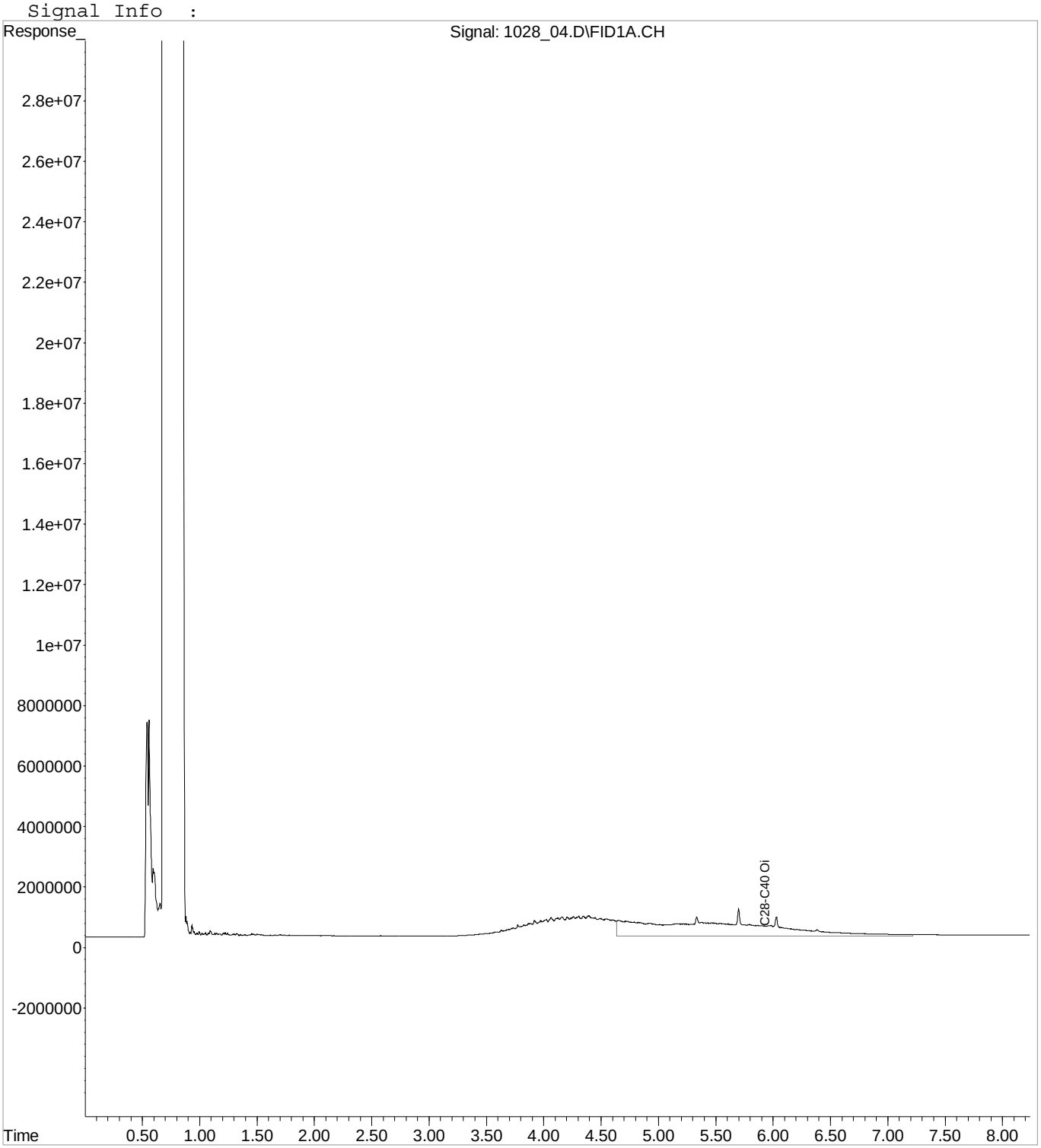
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	437294663	2042.1539283	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 04.D Vial: 4
Acq On : 10-28-2014 04:36:05 PM Operator: 543
Sample : ICV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 16:44 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 09.D Vial: 9
Acq On : 10-28-2014 05:37:40 PM Operator: 543
Sample : Blank 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 18:01:18 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

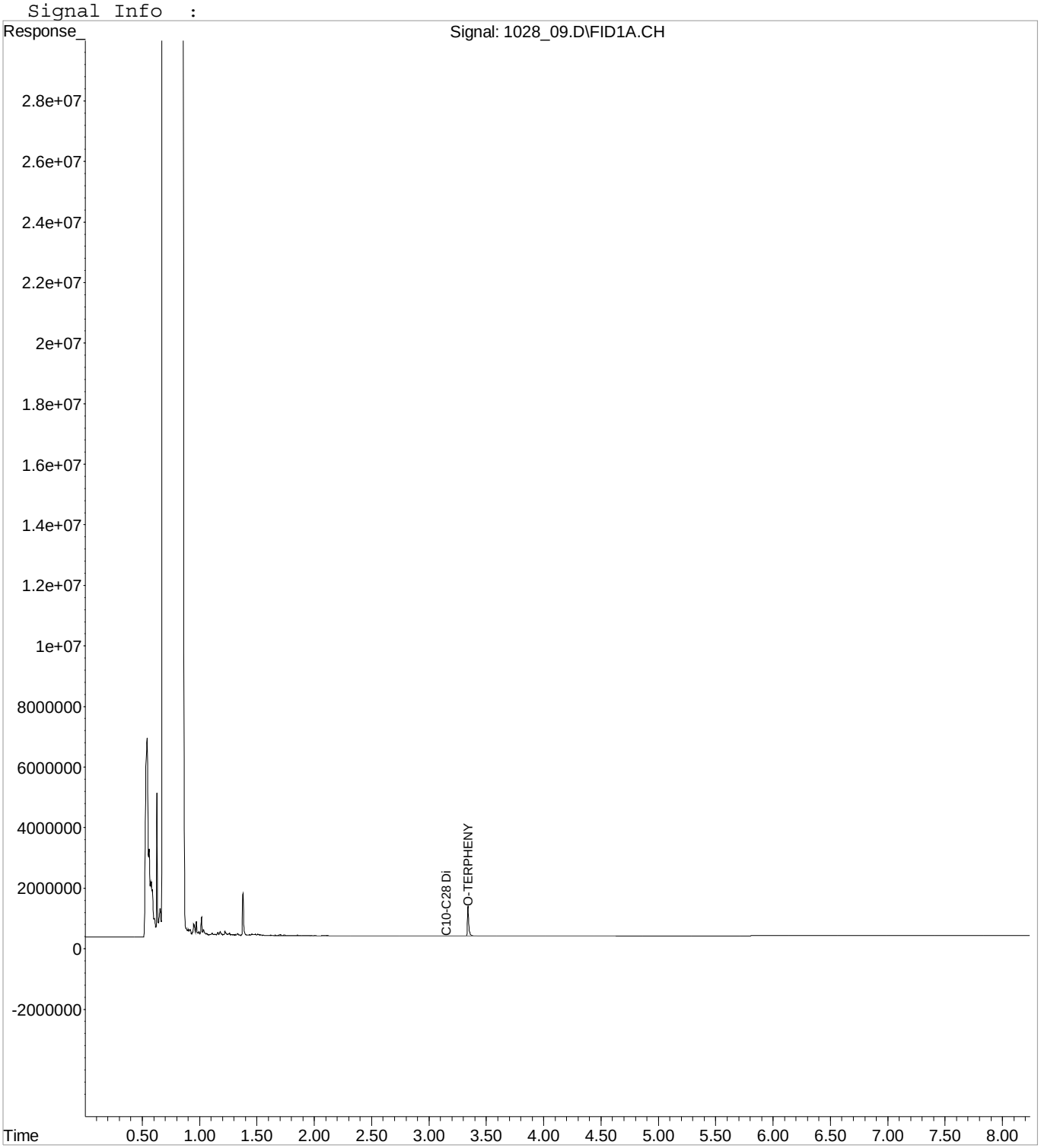
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	7935459	0.6551844 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 81.90%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	11512386	0.3417969 ppm
2) h,m C28-C40 Oil Range	5.93	25907372	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 09.D Vial: 9
Acq On : 10-28-2014 05:37:40 PM Operator: 543
Sample : Blank 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 18:01 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 10.D Vial: 10
Acq On : 10-28-2014 05:50:01 PM Operator: 543
Sample : LCS 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 18:01:42 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

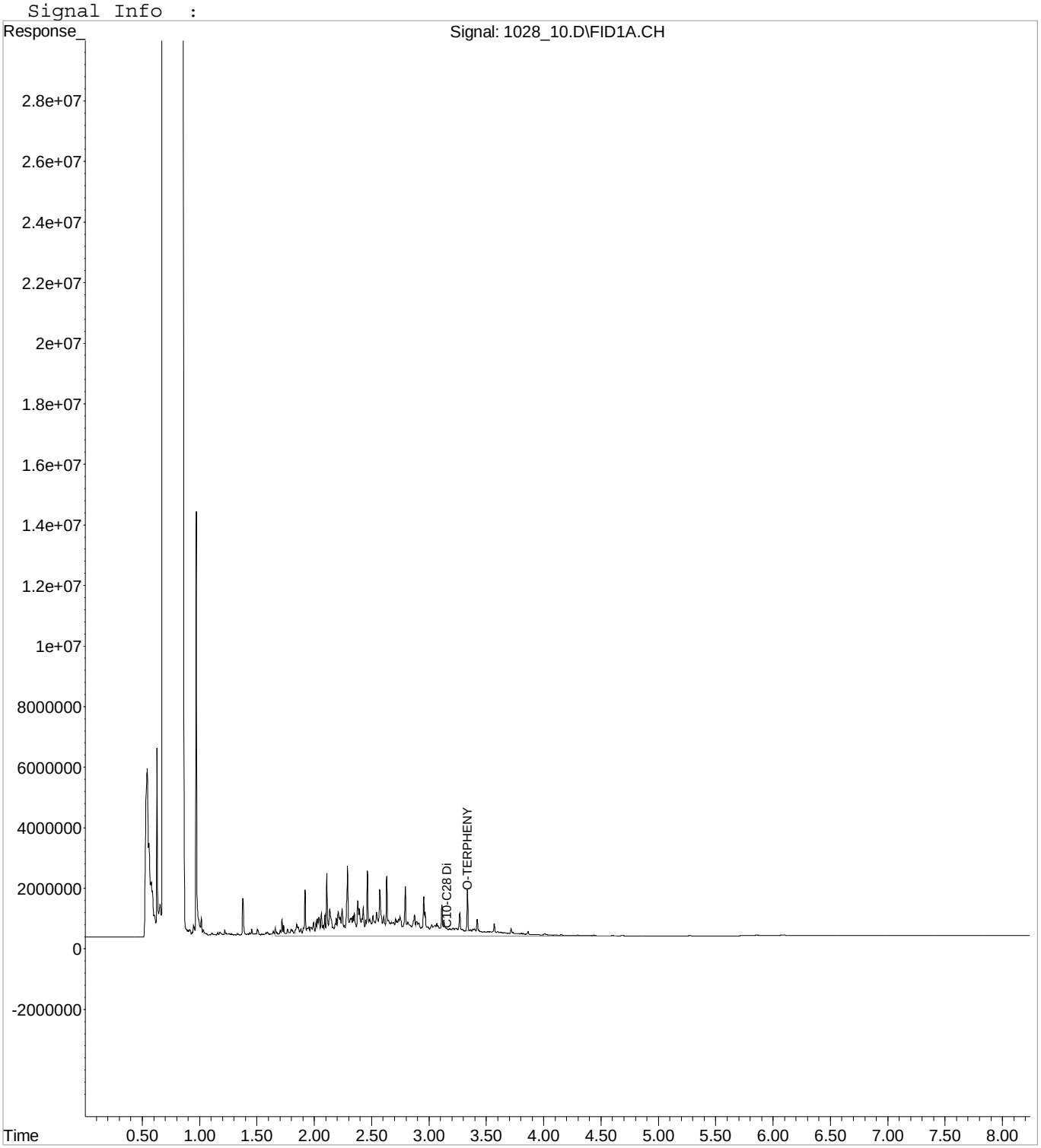
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	7556403	0.6238880	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 77.99%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	496011500	46.0884614	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 10.D Vial: 10
Acq On : 10-28-2014 05:50:01 PM Operator: 543
Sample : LCS 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 18:01 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 11.D Vial: 11
Acq On : 10-28-2014 06:02:23 PM Operator: 543
Sample : LCSD 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 18:21:53 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

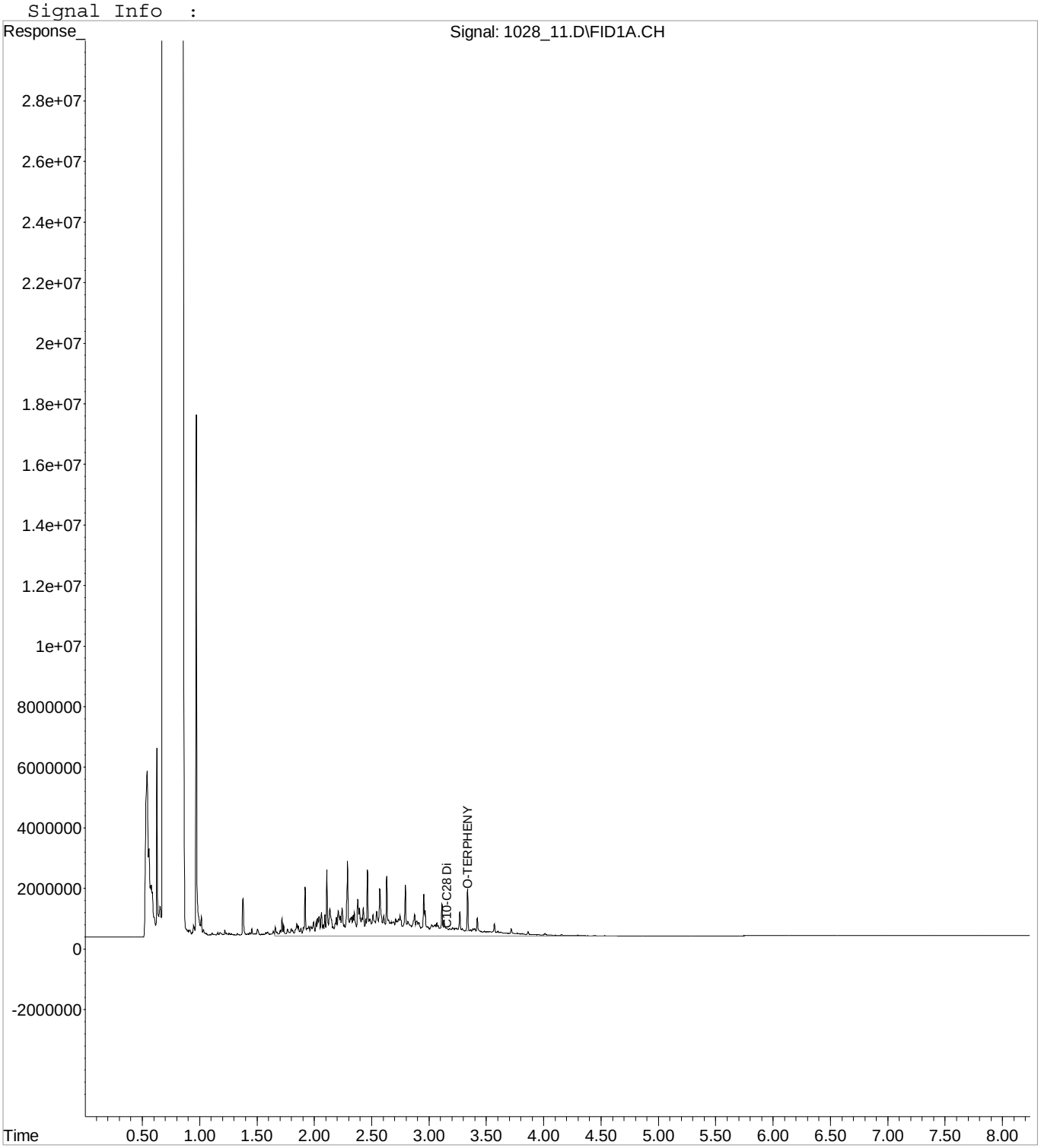
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	7675829	0.6337483	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 79.22%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	510409039	47.4478847	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 11.D Vial: 11
Acq On : 10-28-2014 06:02:23 PM Operator: 543
Sample : LCSD 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 18:22 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 20.D Vial: 20
Acq On : 10-28-2014 07:52:08 PM Operator: 543
Sample : MS 1x WG750211 L729021-02 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 20:14:14 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

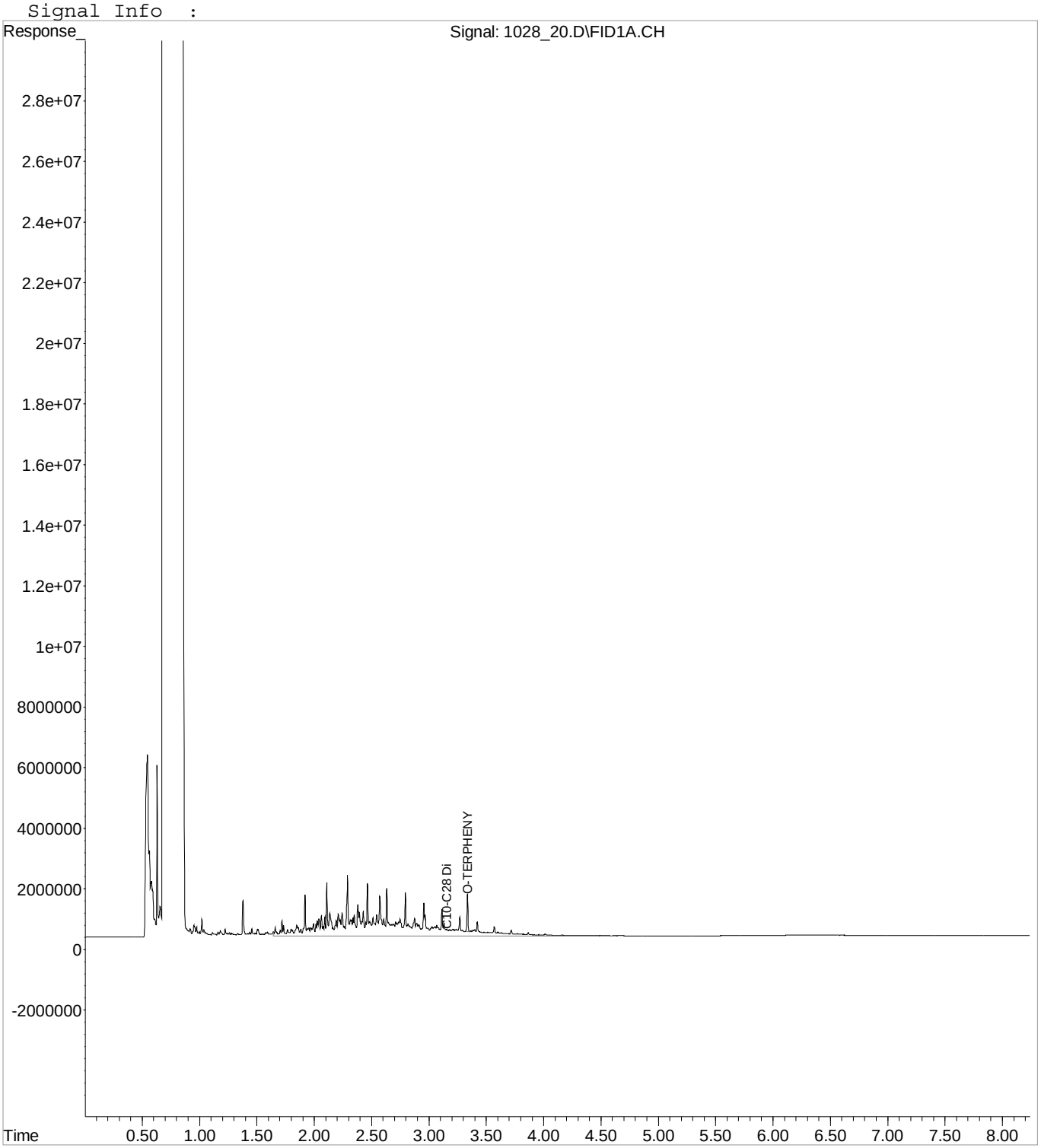
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	7221798	0.5962616	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 74.53%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	427015446	39.5738172	ppm	
2) h,m C28-C40 Oil Range	5.93	19587229	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 20.D Vial: 20
Acq On : 10-28-2014 07:52:08 PM Operator: 543
Sample : MS 1x WG750211 L729021-02 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 20:14 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 21.D Vial: 21
Acq On : 10-28-2014 08:04:30 PM Operator: 543
Sample : MSD 1x WG750211 L729021-02 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 20:14:38 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

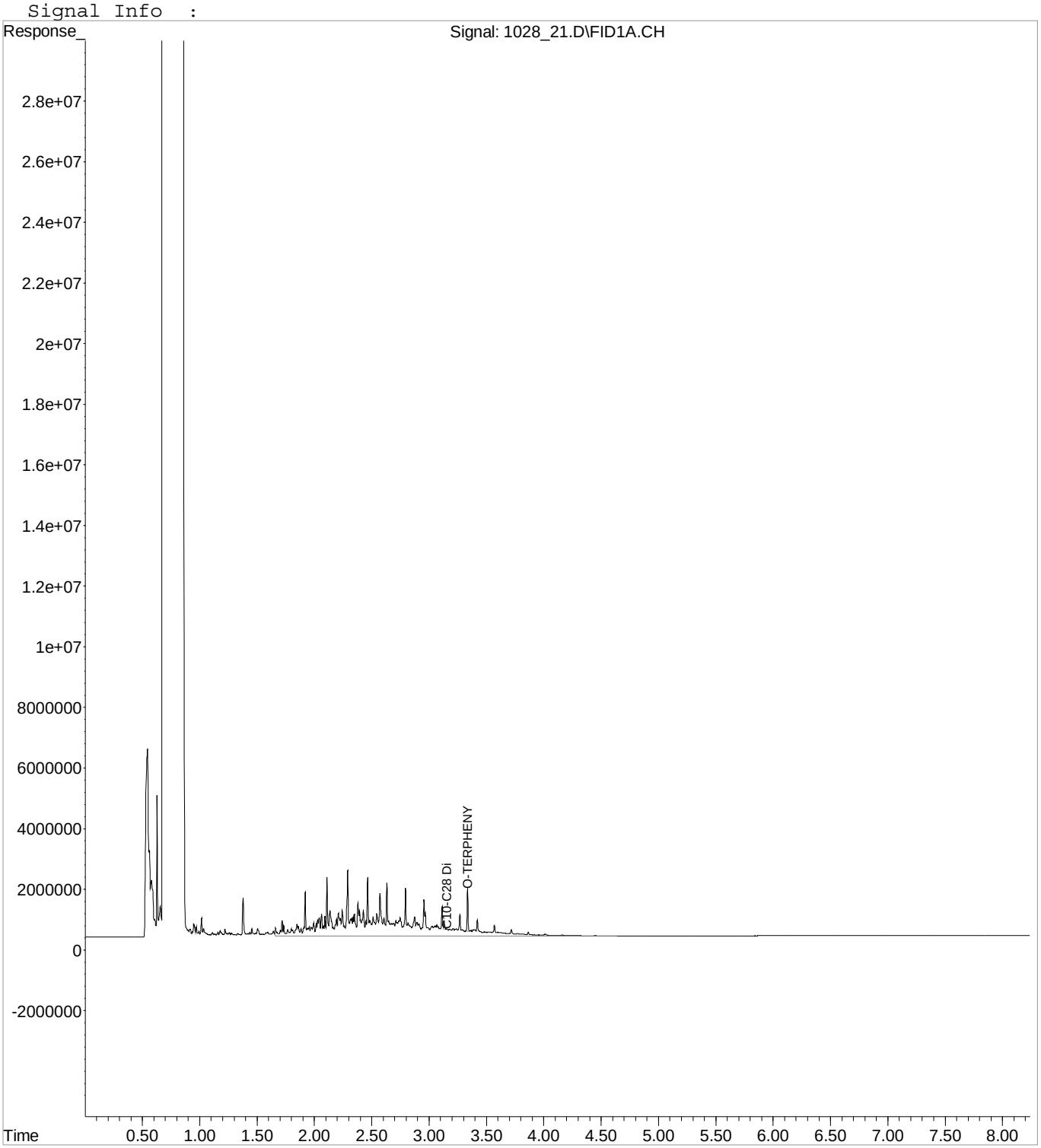
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	7600618	0.6275386	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 78.44%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	466932334	43.3427911	ppm	
2) h,m C28-C40 Oil Range	5.93	17595042	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 21.D Vial: 21
Acq On : 10-28-2014 08:04:30 PM Operator: 543
Sample : MSD 1x WG750211 L729021-02 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 20:15 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 25.D Vial: 3
Acq On : 10-28-2014 08:53:28 PM Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 21:04:27 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	9750332	20.1256971	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 100628.49%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1267767932	2973.9528756	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

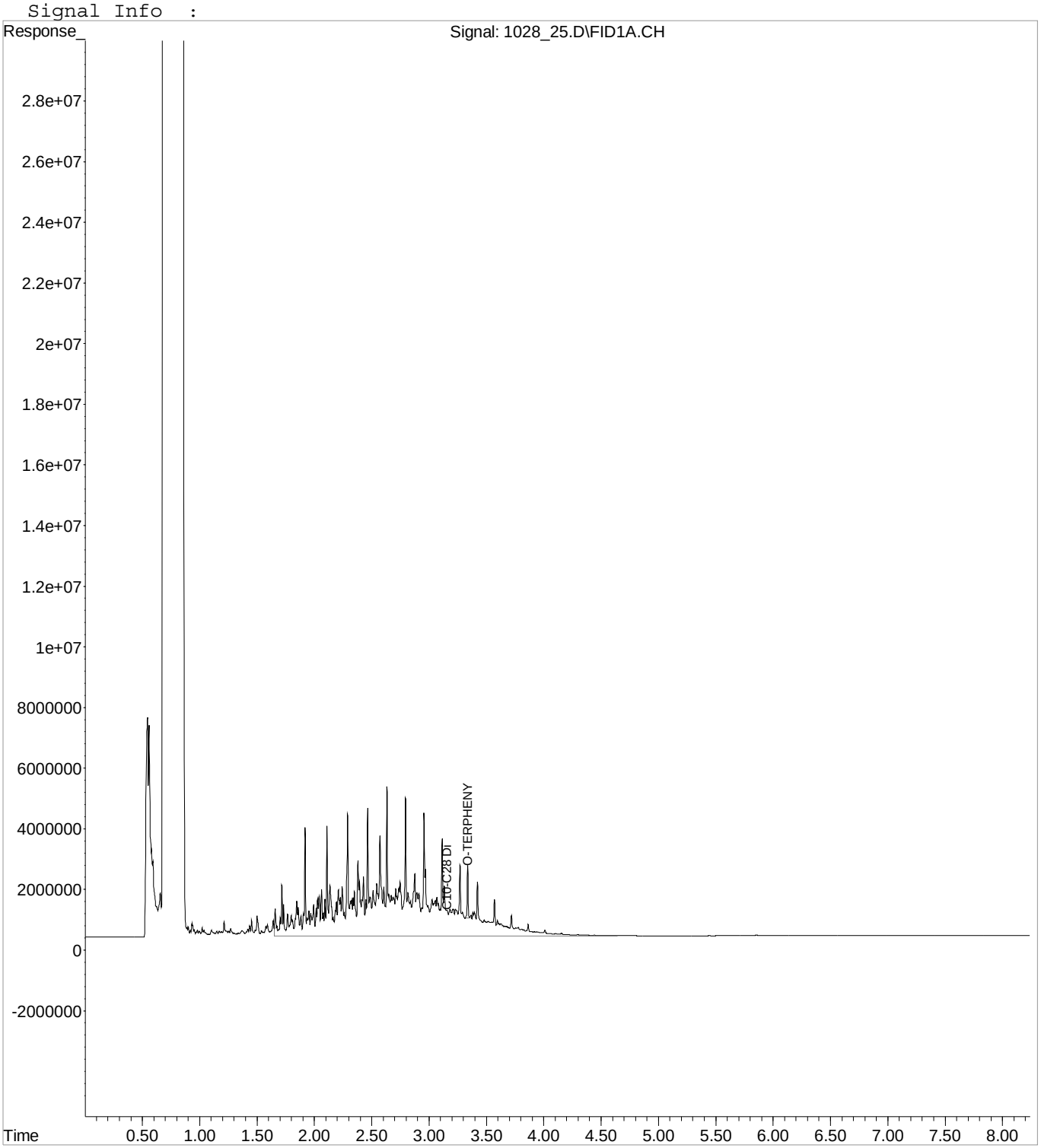
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 25.D Vial: 3
Acq On : 10-28-2014 08:53:28 PM Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 21:04 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 26.D Vial: 4
Acq On : 10-28-2014 09:05:56 PM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 21:15:27 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

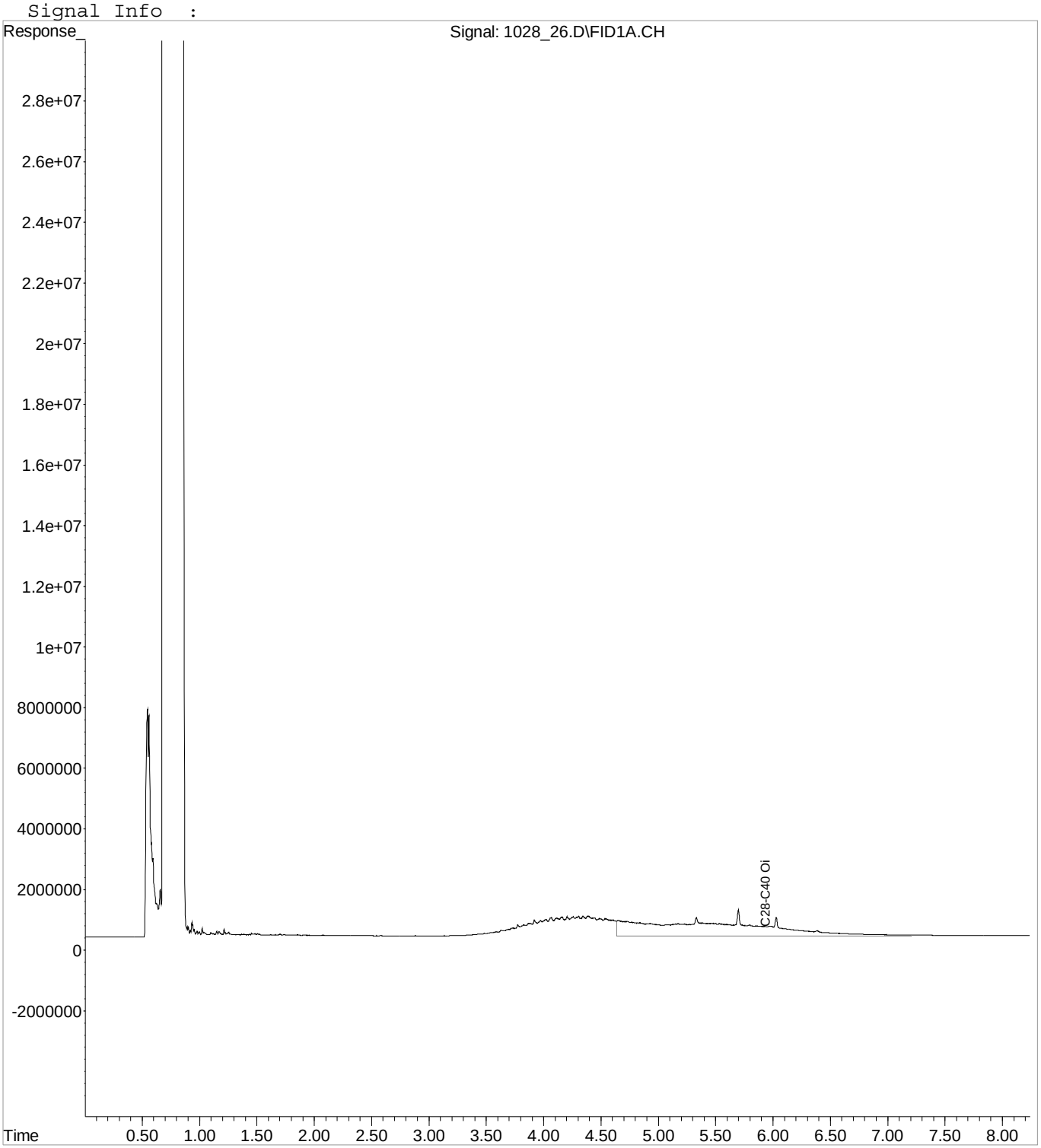
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	403878015	1875.6821998	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 26.D Vial: 4
Acq On : 10-28-2014 09:05:56 PM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 21:15 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 30.D Vial: 26
Acq On : 10-28-2014 09:55:05 PM Operator: 543
Sample : L729026-01 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:14:32 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

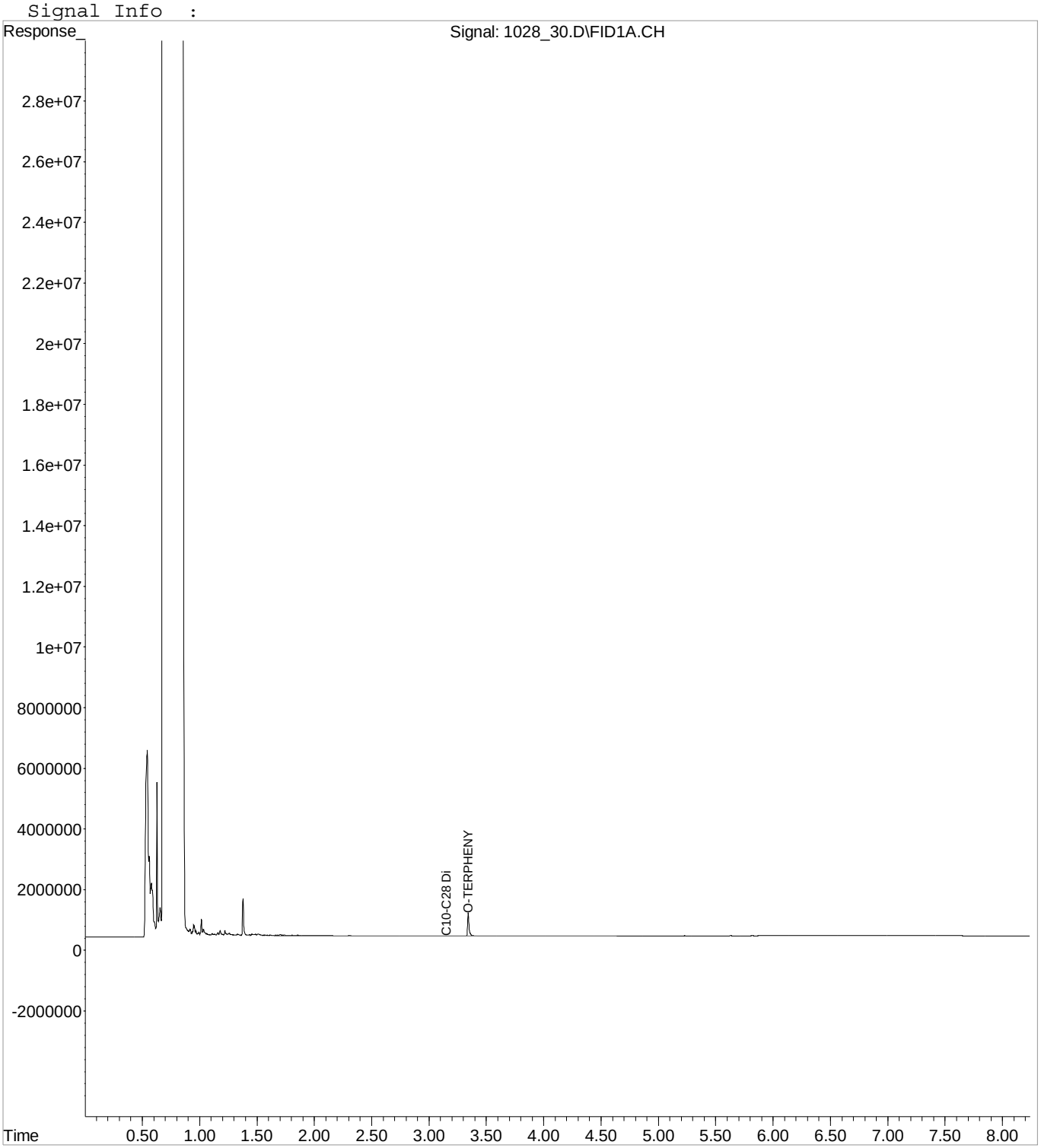
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	6638836	0.5481299 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 68.52%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	12282378	0.4145000 ppm
2) h,m C28-C40 Oil Range	5.93	17442550	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 30.D Vial: 26
Acq On : 10-28-2014 09:55:05 PM Operator: 543
Sample : L729026-01 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:14 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 31.D Vial: 27
Acq On : 28 Oct 2014 10:07 pm Operator: 543
Sample : L729026-02 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:36:45 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

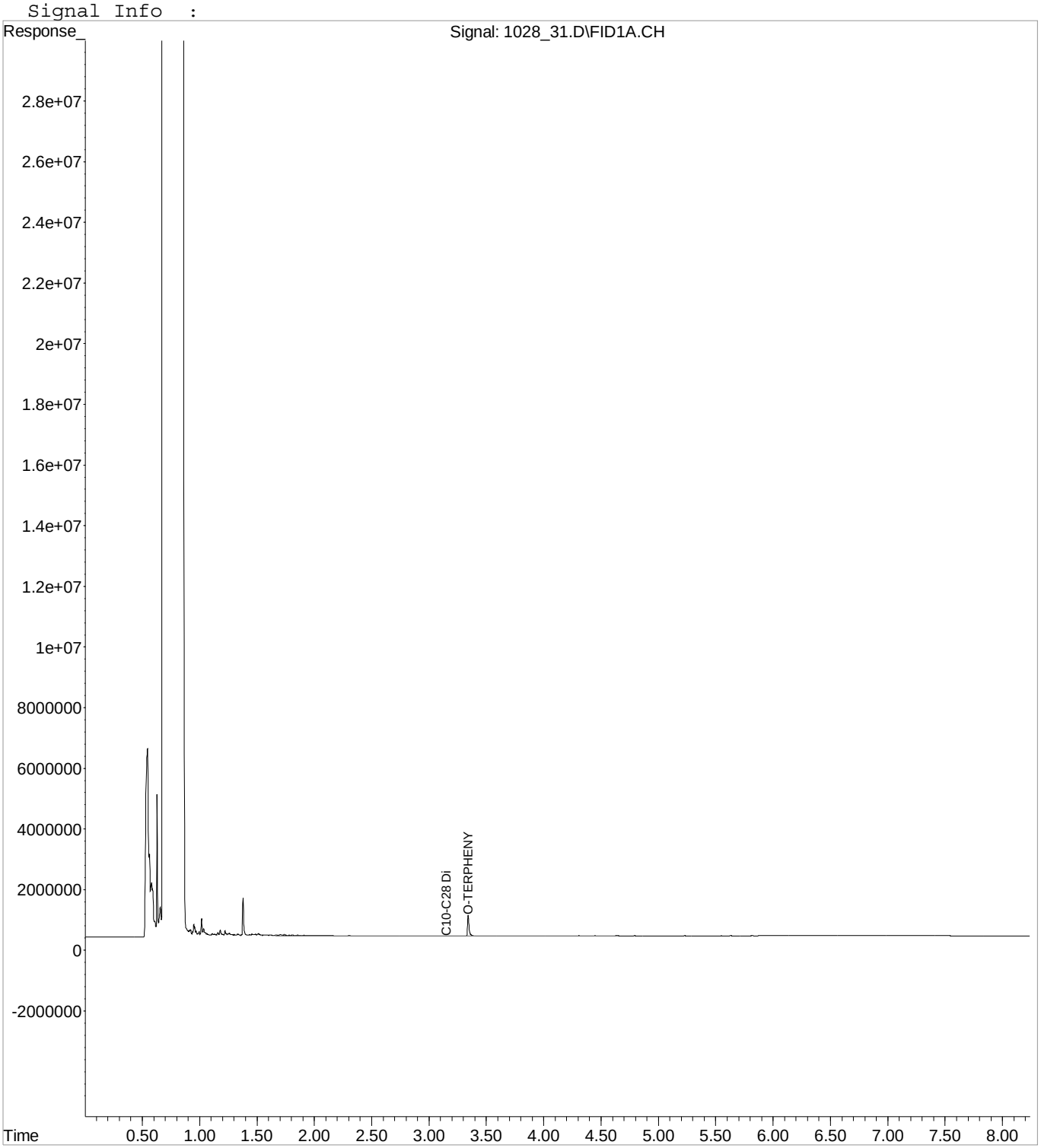
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	6312781	0.5212094 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 65.15%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	12542449	0.4390560 ppm
2) h,m C28-C40 Oil Range	5.93	17137115	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 31.D Vial: 27
Acq On : 28 Oct 2014 10:07 pm Operator: 543
Sample : L729026-02 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:36 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 32.D Vial: 28
Acq On : 28 Oct 2014 10:19 pm Operator: 543
Sample : L729026-03 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:36:59 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	6105023	0.5040561 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 63.01%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	12764350	0.4600080 ppm
2) h,m C28-C40 Oil Range	5.93	15676153	N.D. ppm

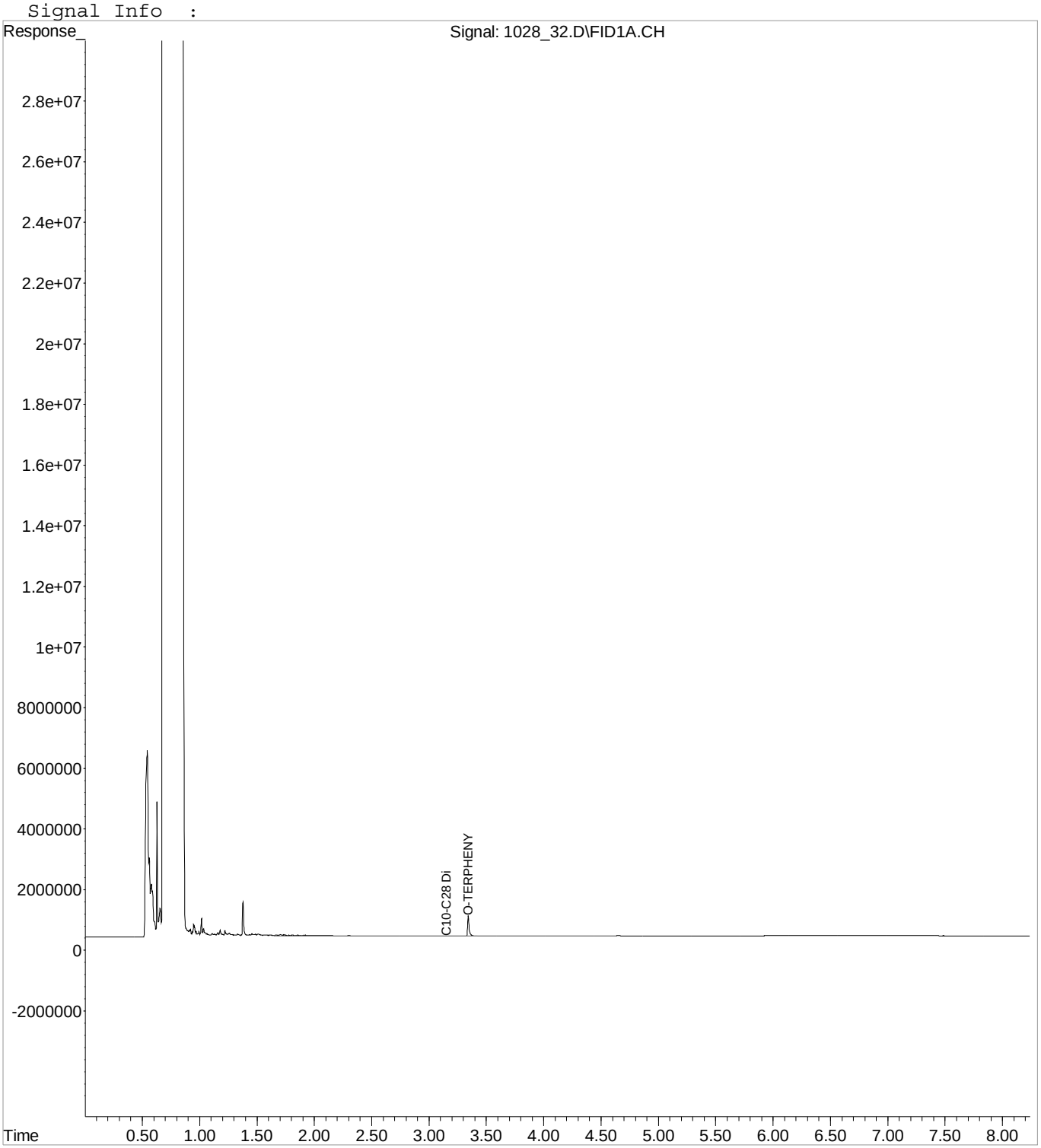
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 32.D Vial: 28
Acq On : 28 Oct 2014 10:19 pm Operator: 543
Sample : L729026-03 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:37 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 33.D Vial: 29
Acq On : 28 Oct 2014 10:31 pm Operator: 543
Sample : L729026-05 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:59:07 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

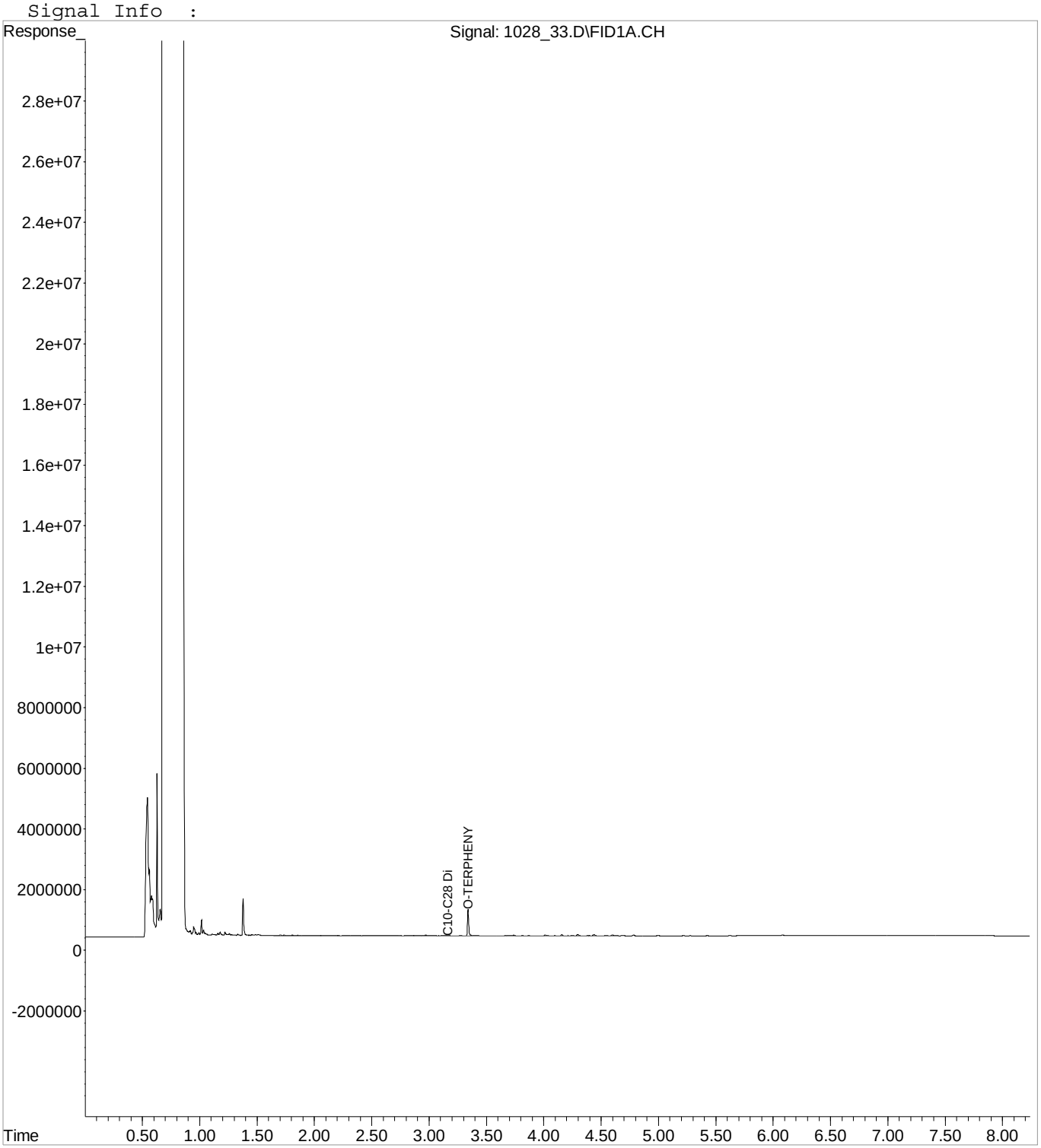
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	6284276	0.5188560 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 64.86%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	15782707	0.7450029 ppm
2) h,m C28-C40 Oil Range	5.93	15316278	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 33.D Vial: 29
Acq On : 28 Oct 2014 10:31 pm Operator: 543
Sample : L729026-05 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:59 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 34.D Vial: 30
Acq On : 28 Oct 2014 10:44 pm Operator: 543
Sample : L729026-06 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:59:28 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	5835825	0.4818300 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 60.23%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	10572824	0.2530829 ppm
2) h,m C28-C40 Oil Range	5.93	15339873	N.D. ppm

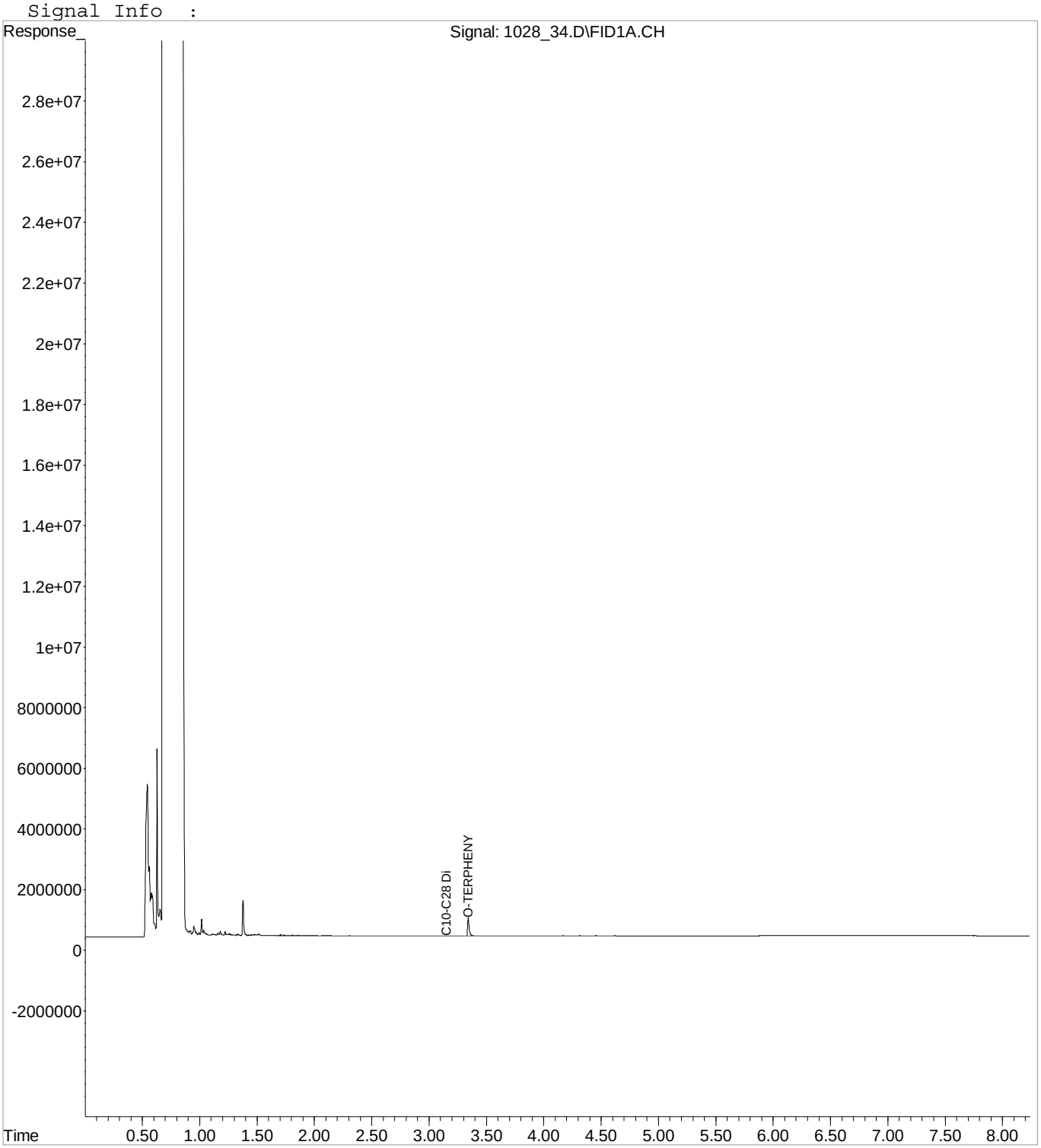
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 34.D Vial: 30
Acq On : 28 Oct 2014 10:44 pm Operator: 543
Sample : L729026-06 1x WG750211 12.5-0.5 Inst : SVGC16
Misc : soil surr14J28695/spk14J09772 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 28 22:59 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 38.D Vial: 3
Acq On : 28 Oct 2014 11:33 pm Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 23:48:06 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

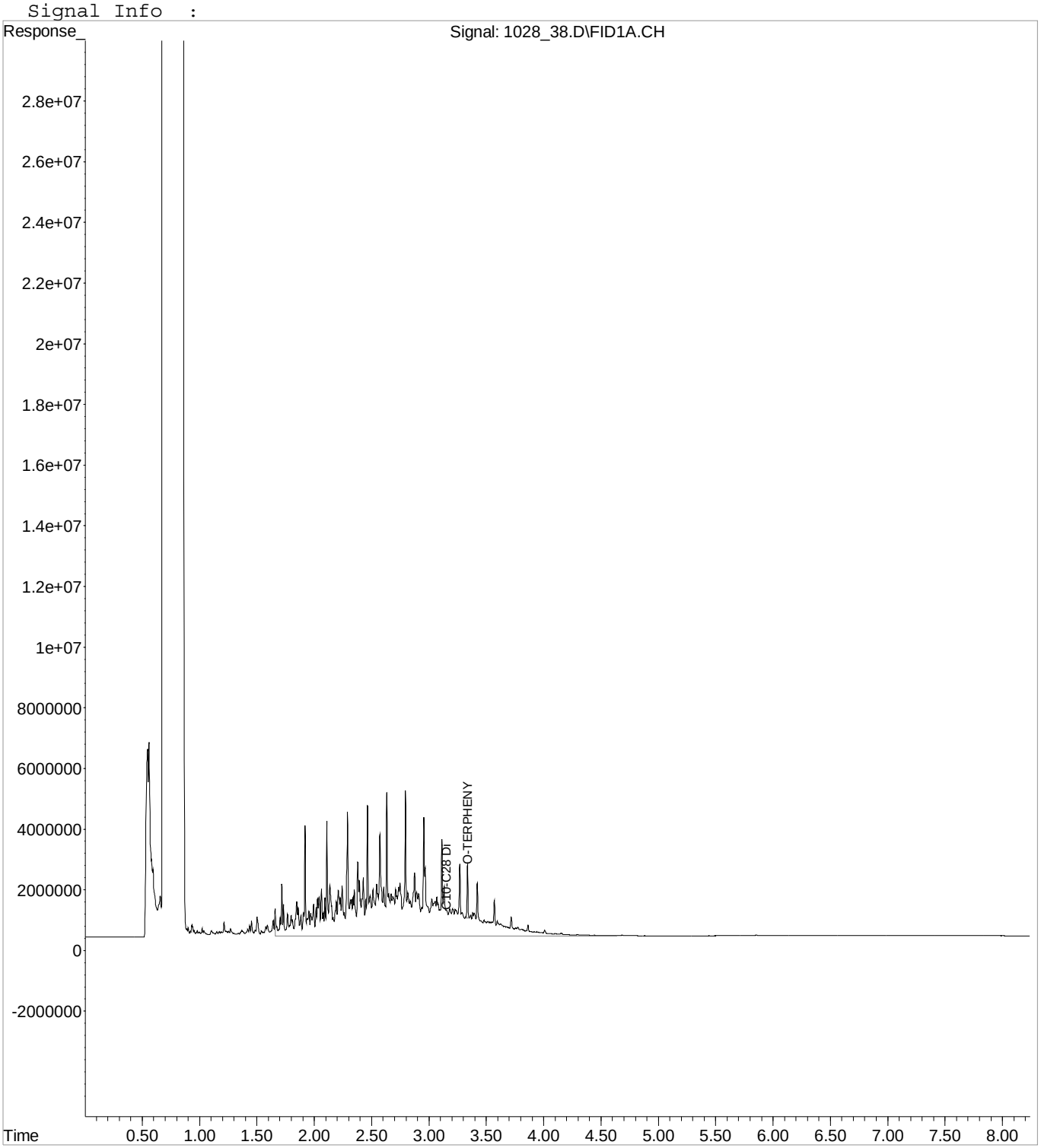
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	9358074	19.3160375	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 96580.19%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1263507957	2963.8971489	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 38.D Vial: 3
Acq On : 28 Oct 2014 11:33 pm Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 23:48 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 39.D Vial: 4
Acq On : 28 Oct 2014 11:45 pm Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 23:55:14 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

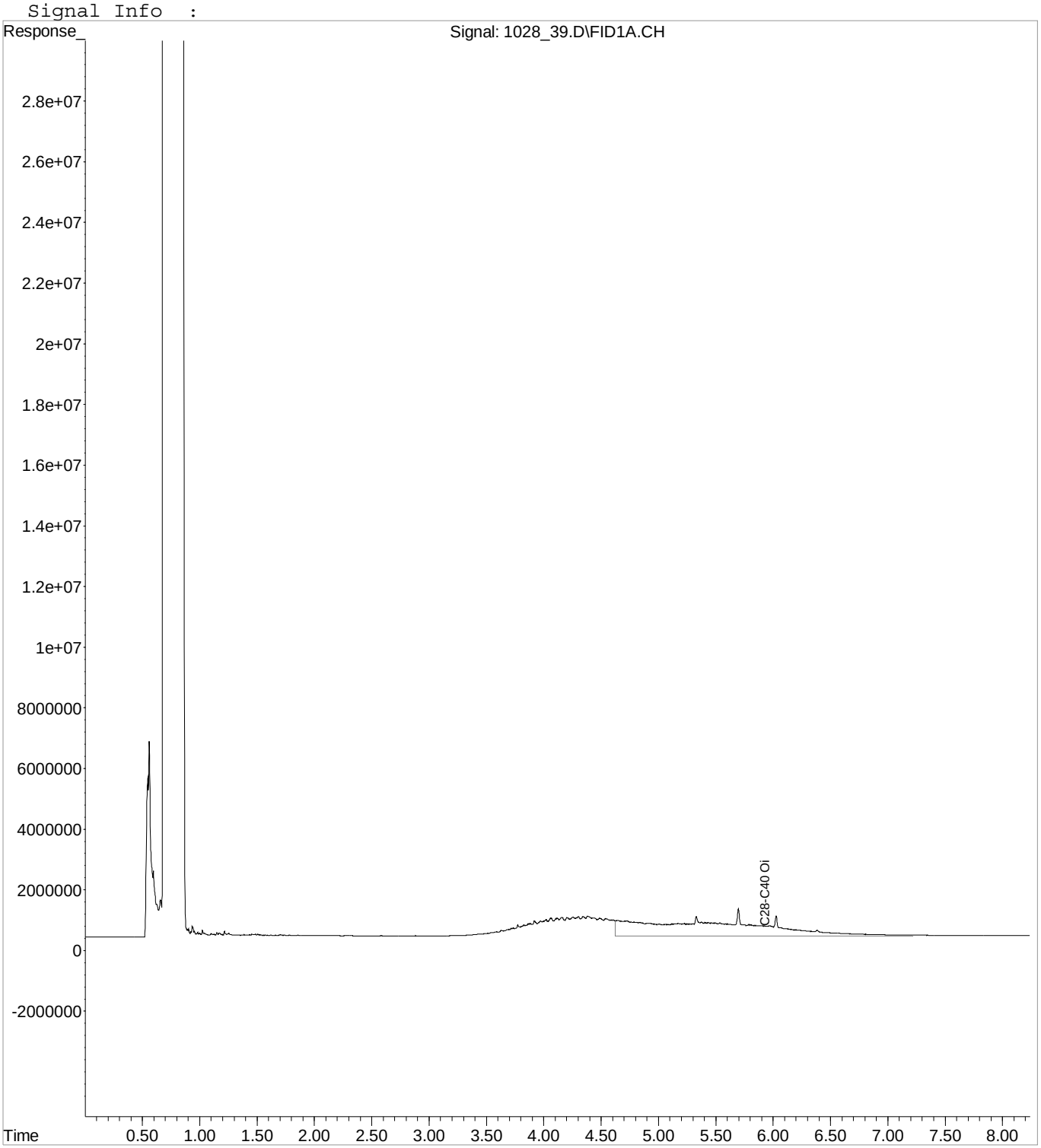
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	422142915	1966.6724610	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 39.D Vial: 4
Acq On : 28 Oct 2014 11:45 pm Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 23:55 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 54.D Vial: 3
Acq On : 10-29-2014 02:49:48 AM Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 07:06:59 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

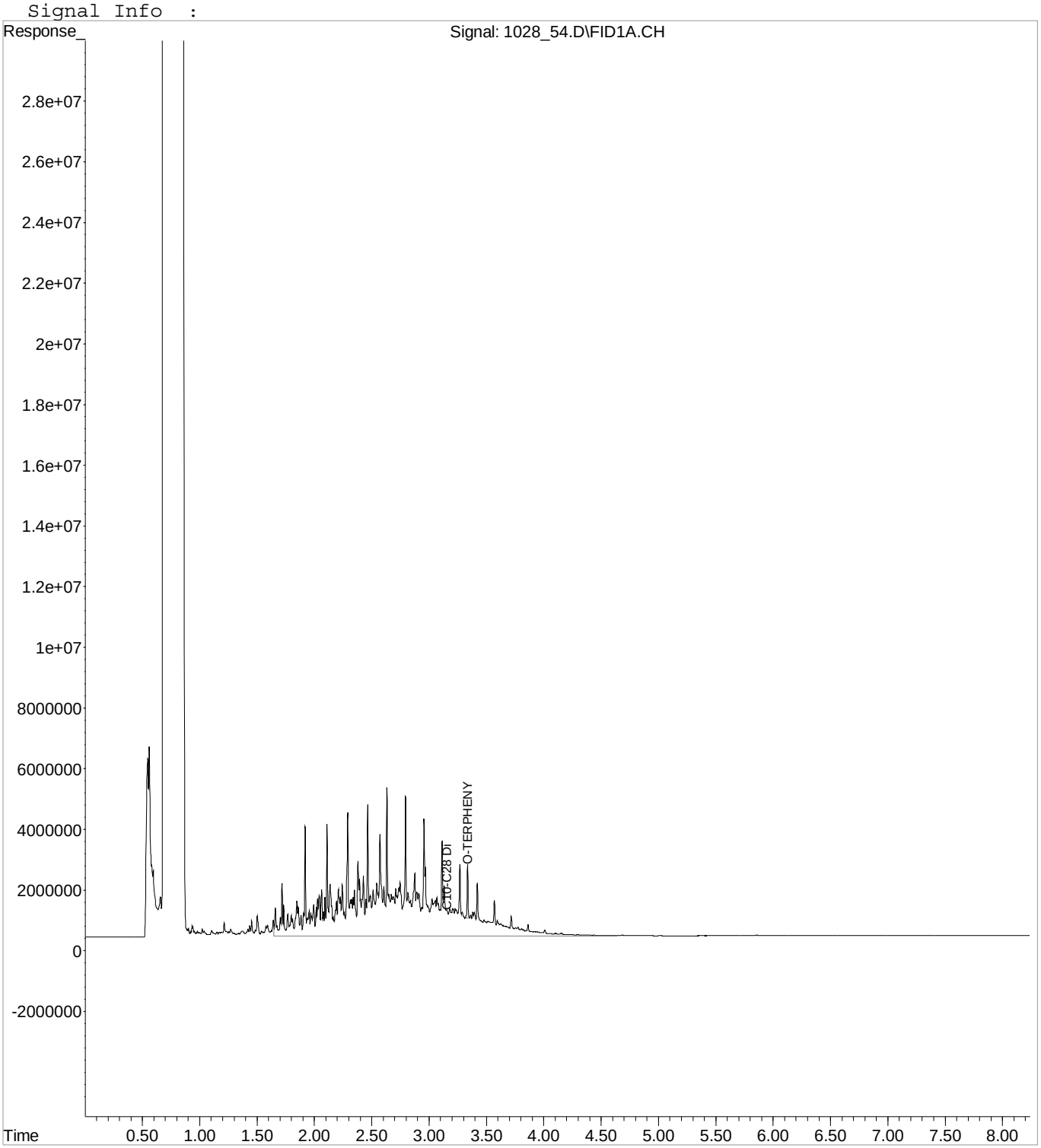
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	9514184	19.6382645	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 98191.32%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1280355836	3003.6667897	ppm	
2) h,m C28-C40 Oil Range	5.93	9532860	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 54.D Vial: 3
Acq On : 10-29-2014 02:49:48 AM Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 7:07 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 55.D Vial: 4
Acq On : 10-29-2014 03:02:00 AM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 07:07:21 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

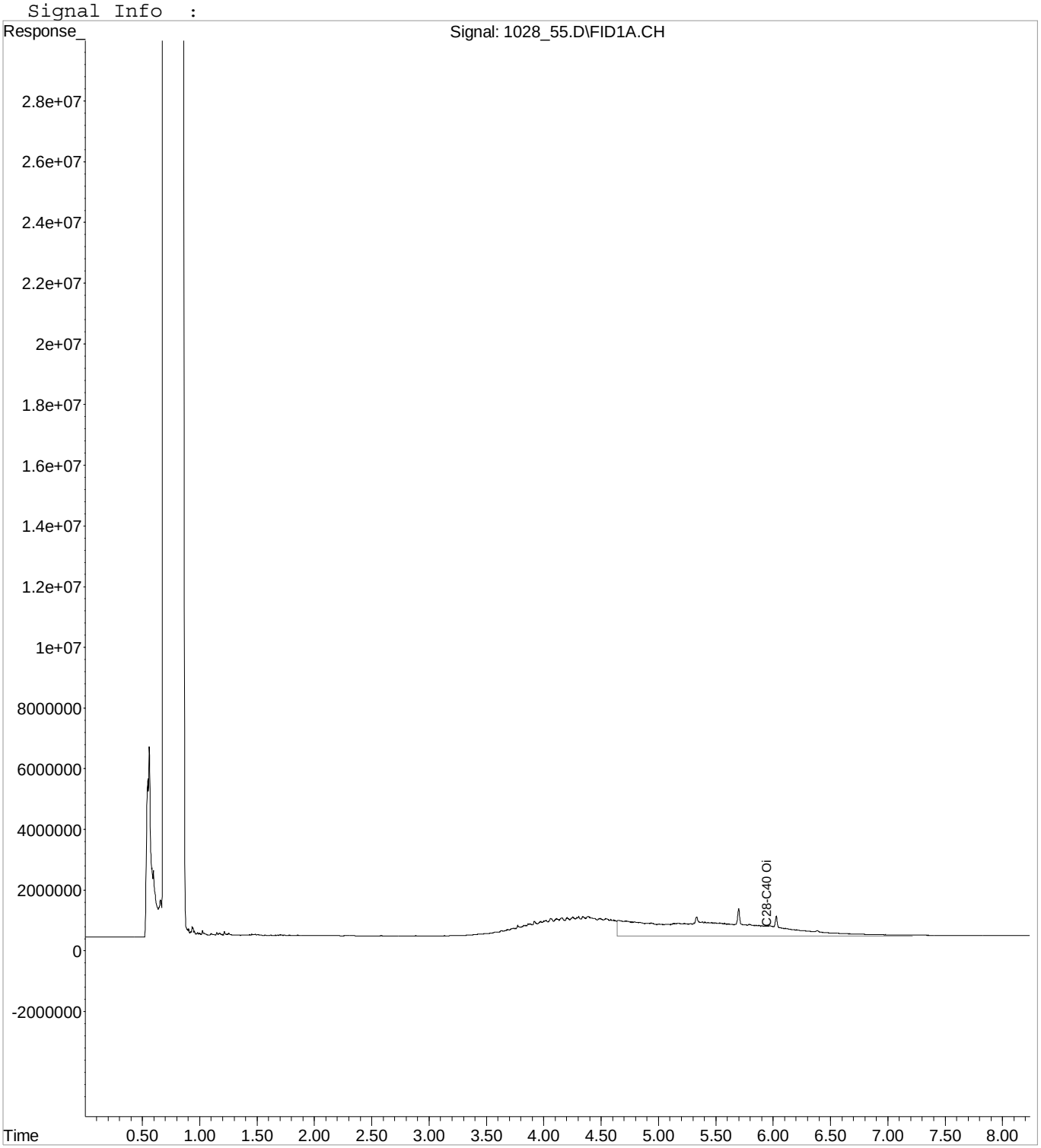
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	419306032	1952.5399619	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 55.D Vial: 4
Acq On : 10-29-2014 03:02:00 AM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 7:07 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 58.D Vial: 3
Acq On : 10-29-2014 03:38:47 AM Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 07:06:33 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

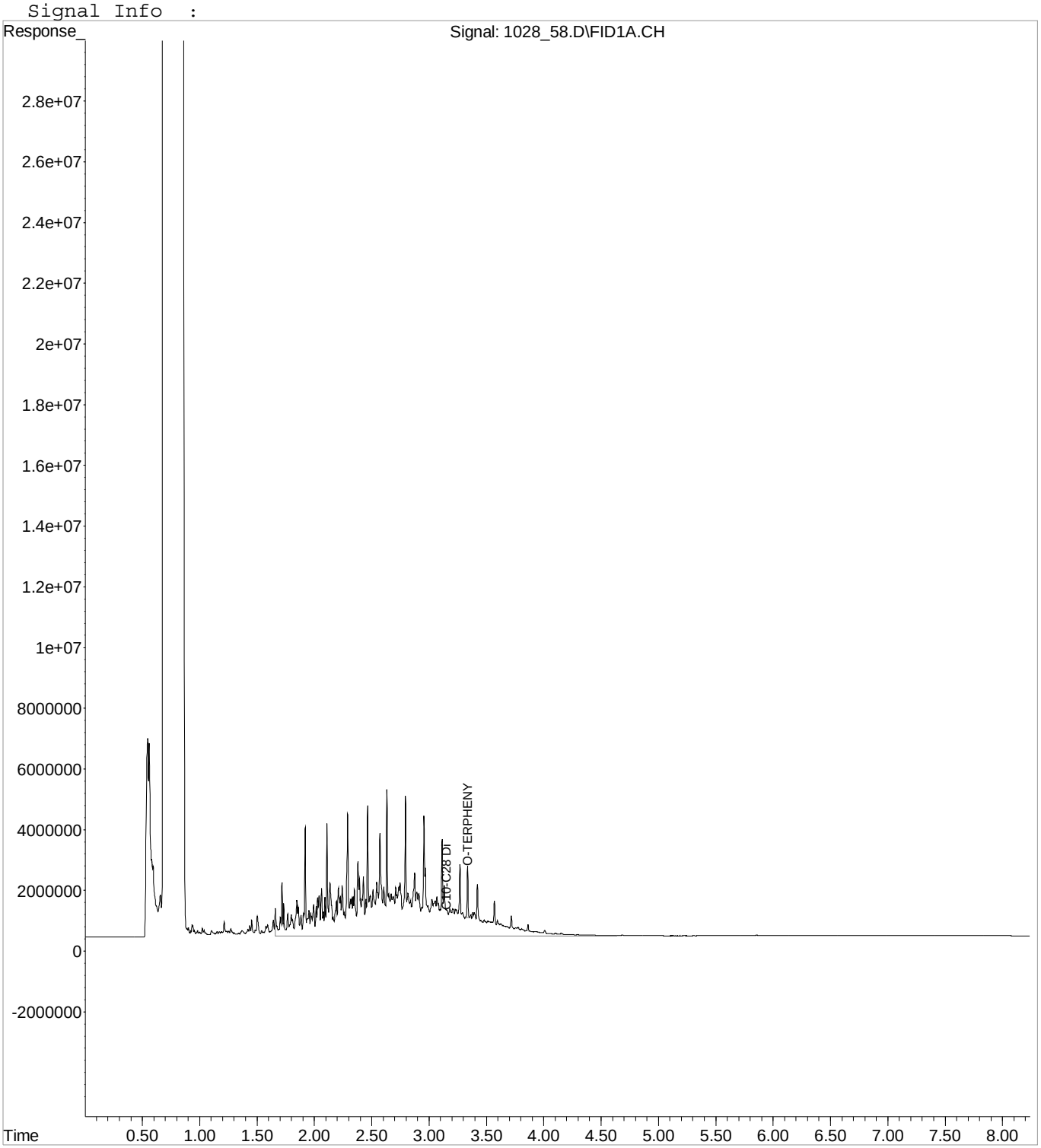
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	9491314	19.5910589	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 97955.29%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1280101301	3003.0659570	ppm	
2) h,m C28-C40 Oil Range	5.93	9888231	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814\1028 58.D Vial: 3
Acq On : 10-29-2014 03:38:47 AM Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 7:06 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Calibration

Instrument: SVGC16
Method: LA16J23N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0730B_03.D	100	7/30/2014 9:53:00 PM
0730B_04.D	200	7/30/2014 10:05:00 PM
0730B_05.D	500	7/30/2014 10:17:00 PM
0730B_06.D	1000	7/30/2014 10:30:00 PM
0730B_07.D	2000	7/30/2014 10:42:00 PM
0730B_08.D	3000	7/30/2014 10:54:00 PM
0730B_09.D	5000	7/30/2014 11:06:00 PM
0730B_10.D	10000	7/30/2014 11:18:00 PM
1023A_03.D	50M	10/23/2014 3:44:00 PM
1023A_04.D	100M	10/23/2014 4:19:00 PM
1023A_05.D	200M	10/23/2014 4:31:00 PM
1023A_06.D	500M	10/23/2014 4:43:00 PM
1023A_07.D	1KM	10/23/2014 4:55:00 PM
1023A_08.D	2KM	10/23/2014 5:08:00 PM
1023A_09.D	2.5000	10/23/2014 5:20:00 PM
1023A_10.D	5KM	10/23/2014 5:32:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/28/2014 2:39:11 PM
Run ID : 102314A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0730B_02	LOC FL 14E23224	DE16G30N						1	1	07/30/14 2141	" "
2	0730B_03	STD DRO 100 PPM 14G01431	LA16J23N						1	1	07/30/14 2153	" "
3	0730B_04	STD DRO 200 PPM 14G01431	LA16J23N						1	1	07/30/14 2205	" "
4	0730B_05	STD DRO 500 PPM 14G01431	LA16J23N						1	1	07/30/14 2217	" "
5	0730B_06	STD DRO 1000 PPM 14G01431	LA16J23N						1	1	07/30/14 2230	" "
6	0730B_07	STD DRO 2000 PPM 14G01431	LA16J23N						1	1	07/30/14 2242	" "
7	0730B_08	STD DRO 3000 PPM 14G01431	LA16J23N						1	1	07/30/14 2254	" "
8	0730B_09	STD DRO 5000 PPM 14G01431	LA16J23N						1	1	07/30/14 2306	" "
9	0730B_10	STD DRO 10K PPM 14G01431	LA16J23N						1	1	07/30/14 2318	" "
10	0730B_11	SSCV DRO 1500 PPM 14G17272	LA16J23N						1	1	07/30/14 2331	" "
11	1023A_01	INSTBLK	LA16J23N						1	1	10/23/14 1519	" "
12	1023A_02	LOC FL 14J160051	LA16J23N						1	1	10/23/14 1531	" "
13	1023A_03	STD 10W30 50M PPM 14J23427	LA16J23N						1	1	10/23/14 1544	" "
14	1023A_04	STD 10W30 100M PPM 14J23427	LA16J23N						1	1	10/23/14 1619	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/28/2014 2:39:11 PM
Run ID : 102314A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1023A_05	STD 10W30 200M PPM 14J23427	LA16J23N						1	1	10/23/14 1631	" "
16	1023A_06	STD 10W30 500M PPM 14J23427	LA16J23N						1	1	10/23/14 1643	" "
17	1023A_07	STD 10W30 1KM PPM 14J23427	LA16J23N						1	1	10/23/14 1655	" "
18	1023A_08	STD 10W30 2KM PPM 14J23427	LA16J23N						1	1	10/23/14 1708	" "
19	1023A_09	STD 10W30 2.5K PPM 14J23427	LA16J23N						1	1	10/23/14 1720	" "
20	1023A_10	STD 10W30 5KMPPM 14J23427	LA16J23N						1	1	10/23/14 1732	" "
21	1023A_11	SSCV 10W30 1500 PPM 14J23434	LA16J23N						1	1	10/23/14 1744	" "

Mint Miner (UNREGISTERED DEMO) Directory Scan: y:\102314A

28 Oct 2014 16:08

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102314A\0730B_02.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_02.D\FID1A.CH					
0	Scanned		543	SVGC16	LOC FL 14E23224
Scan File Path: y:\102314A\0730B_03.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_03.D\FID1A.CH					
13	Scanned	M(7), D(1), MR(1)	543	SVGC16	STD DRO 100 ppm 14G01431
Scan File Path: y:\102314A\0730B_04.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_04.D\FID1A.CH					
13	Scanned	M(7), D(1), MR(1)	543	SVGC16	STD DRO 200 ppm 14G01431
Scan File Path: y:\102314A\0730B_05.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_05.D\FID1A.CH					
23	Scanned	MR(3), M(7), D(1)	543	SVGC16	STD DRO 500 ppm 14G01431
Scan File Path: y:\102314A\0730B_06.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_06.D\FID1A.CH					
41	Scanned	MR(6), M(9), MQ(1), D(1)	543	SVGC16	STD DRO 1000 ppm 14G01431
Scan File Path: y:\102314A\0730B_07.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_07.D\FID1A.CH					
39	Scanned	MR(6), M(7), MQ(1), D(1)	543	SVGC16	STD DRO 2000 ppm 14G01431
Scan File Path: y:\102314A\0730B_08.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_08.D\FID1A.CH					
39	Scanned	MR(6), M(6), MQ(1), D(2)	543	SVGC16	STD DRO 3000 ppm 14G01431
Scan File Path: y:\102314A\0730B_09.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_09.D\FID1A.CH					
39	Scanned	D(2), MR(6), MQ(1), M(6)	543	SVGC16	STD DRO 5000 ppm 14G01431
Scan File Path: y:\102314A\0730B_10.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_10.D\FID1A.CH					
39	Scanned	D(2), MR(6), MQ(1), M(6)	543	SVGC16	STD DRO 10K ppm 14G01431
Scan File Path: y:\102314A\0730B_11.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_11.D\FID1A.CH					
42	Scanned	MR(6), M(7), D(3), MQ(2)	543	SVGC16	SSCV DRO 1500 ppm 14G17272
Scan File Path: y:\102314A\1023A_01.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_01.D\FID1A.CH					
0	Scanned		543	SVGC16	INSTBLK

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102314A\1023A_02.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_02.D\FID1A.CH					
0	Scanned		543	SVGC16	LOC FL 14J160051
Scan File Path: y:\102314A\1023A_03.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_03.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 50 ppm 14J23427
Scan File Path: y:\102314A\1023A_04.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_04.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 100 ppm 14J23427
Scan File Path: y:\102314A\1023A_05.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_05.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 200 ppm 14J23427
Scan File Path: y:\102314A\1023A_06.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_06.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 500 ppm 14J23427
Scan File Path: y:\102314A\1023A_07.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_07.D\FID1A.CH					
33	Scanned	D(4), M(4), MR(2), MT(2), MM(1)	543	SVGC16	STD 10W30 1000 ppm 14J23427
Scan File Path: y:\102314A\1023A_08.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_08.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 2000 ppm 14J23427
Scan File Path: y:\102314A\1023A_09.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_09.D\FID1A.CH					
27	Scanned	D(4), MR(2), M(3), MT(2)	543	SVGC16	STD 10W30 2500 ppm 14J23427
Scan File Path: y:\102314A\1023A_10.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_10.D\FID1A.CH					
38	Scanned	D(4), MR(3), M(4), MT(2), MM(1)	543	SVGC16	STD 10W30 5000 ppm 14J23427
Scan File Path: y:\102314A\1023A_11.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_11.D\FID1A.CH					
50	Scanned	D(7), M(7), MT(3), QM(1), MM(1), MR(2), MQ(4)	543	SVGC16	SSCV 10W30 1500 ppm 14J23434

D = Deletion of any analyte
MM = More than 3 manual integrations of the same analyte
MR = Manual integration with before/after ratio <10%
QM = Processed >3 times using the same method
M = Manual integration (non-specific)
MQ = Manual integration and deletion of the same analyte
MT = Multiple manual integrations of the same analyte >10 minutes apart

Level	Status	Code	Operator	Instrument	Sample ID

ScanSummary.rpt

Total Files Scanned	21	Beginning Analyzed Date	7/30/2014 9:41:04PM
Methods	0	Ending Analyzed Date	10/23/2014 5:44:46PM
Samples	21	Analyzed Range	2036 hours, 3 minutes
Tunes	0	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

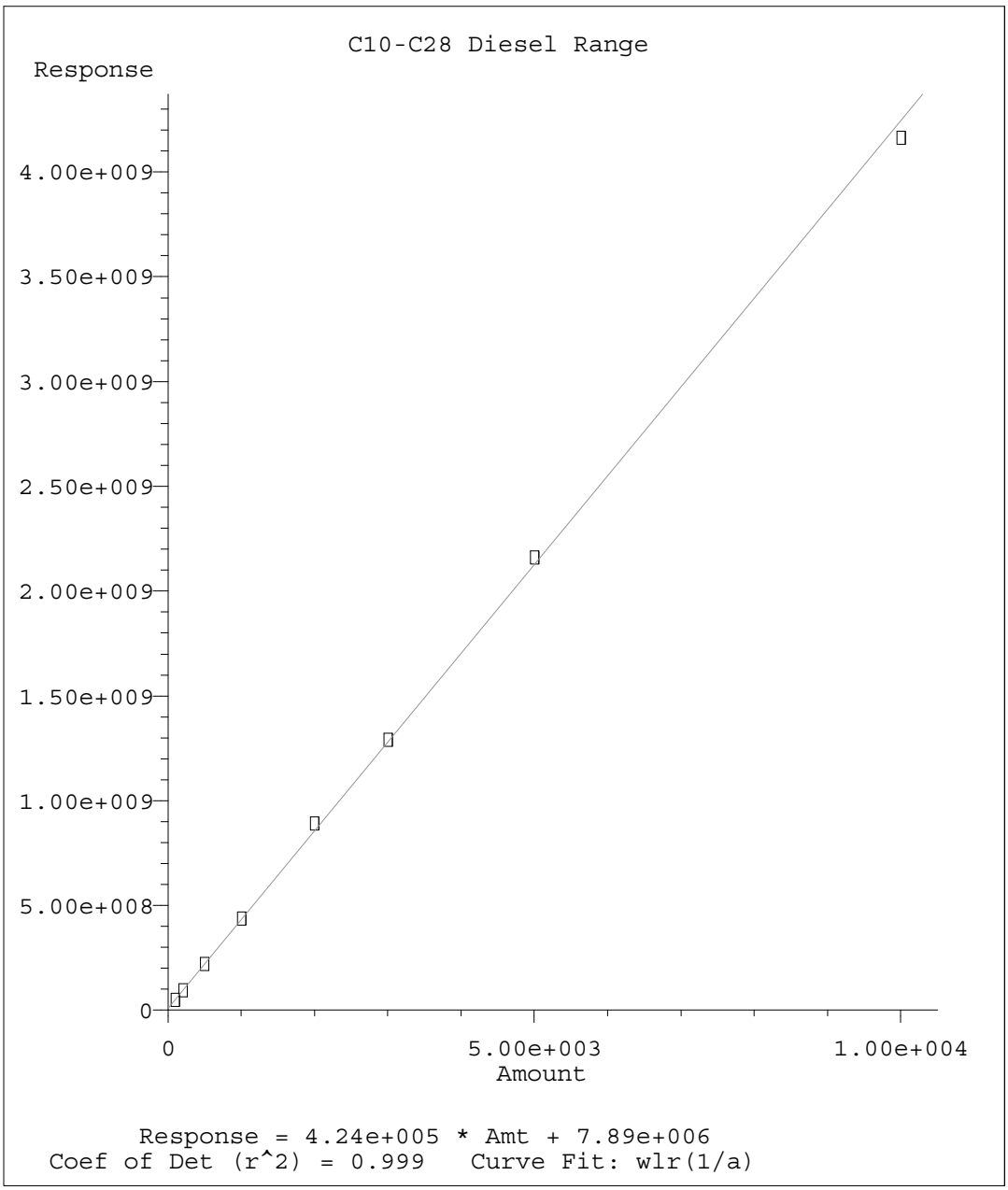
INITIAL CALIBRATION SUMMARY

Instrument ID	: SVGC16	Review Method	: EPHMOD	Released By	: Casey Gwaltney
Method	: LA16J23N	Review Protocol	: EPHMOD	Released On	: 10/28/2014 2:39:11 PM

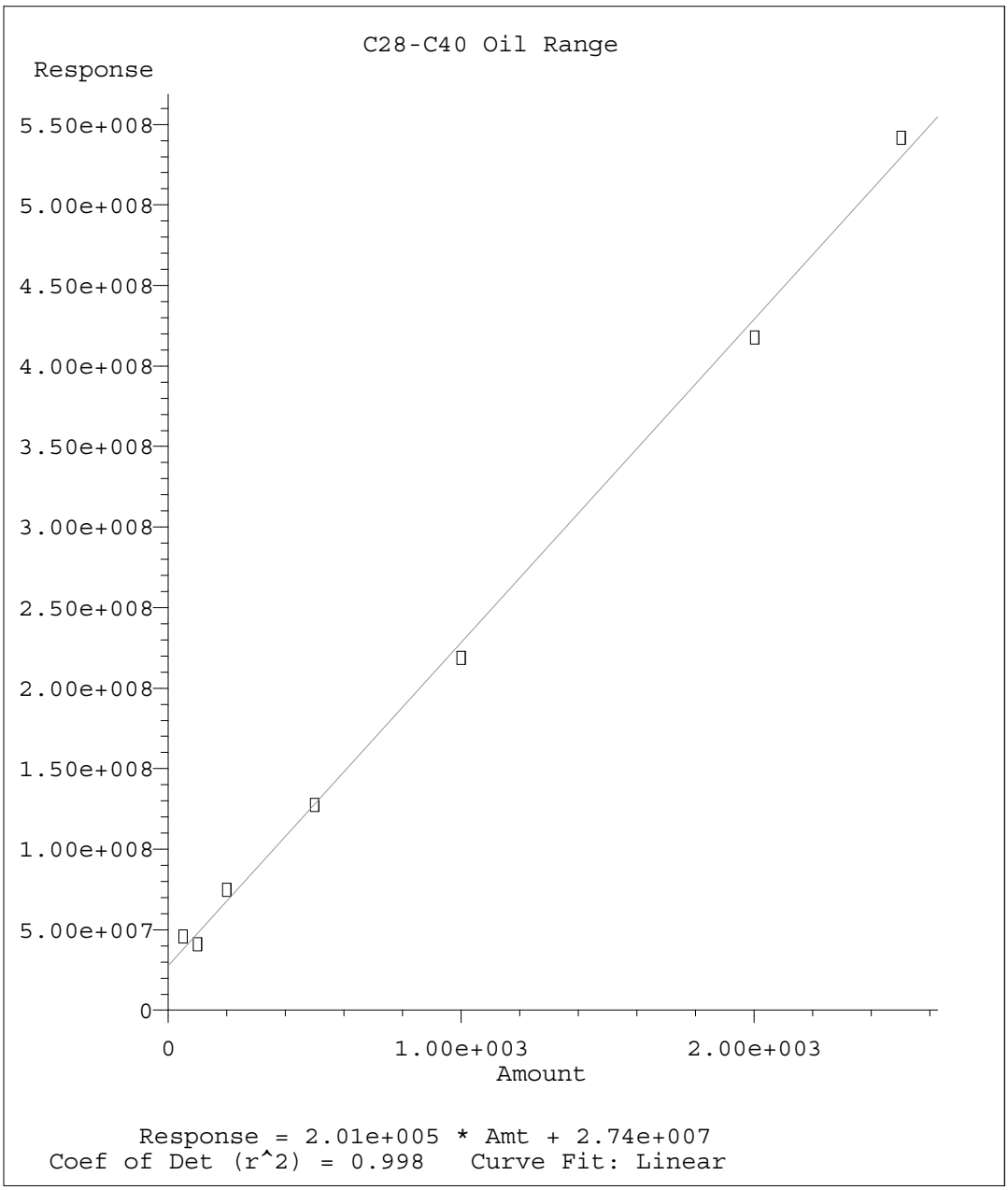
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- LA16J23N -- ICal Updated Time: Tue Oct 28 11:00:10 2014

Parameter	100	200	500	1000	2000	3000	5000	10000	50M	100M	200M	500M	1KM	2KM	2.5000	AvgRF	%RSD	COD	Cur
C10-C28 Diesel Range	475600	467800	436600	437000	445100	429600	432100	416300								442512.8	4.5	0.999	0
C28-C40 Oil Range									912700	408800	372700	254600	218600	208800	216600	370421.2	68.1	0.998	0
O-TERPHENYL	523900	506100	455600	455600	481100											484471.7	6.28	0.063	1

PDF Generated On: 10/28/2014 -- By: Casey Gwaltney



Method Name: C:\MSDCHEM\1\METHODS\LA16J23N.M



Method Name: C:\MSDCHEM\1\METHODS\LA16J23N.M

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03:44 2014 Quant Results File: DE16G30N.RES

Quant Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

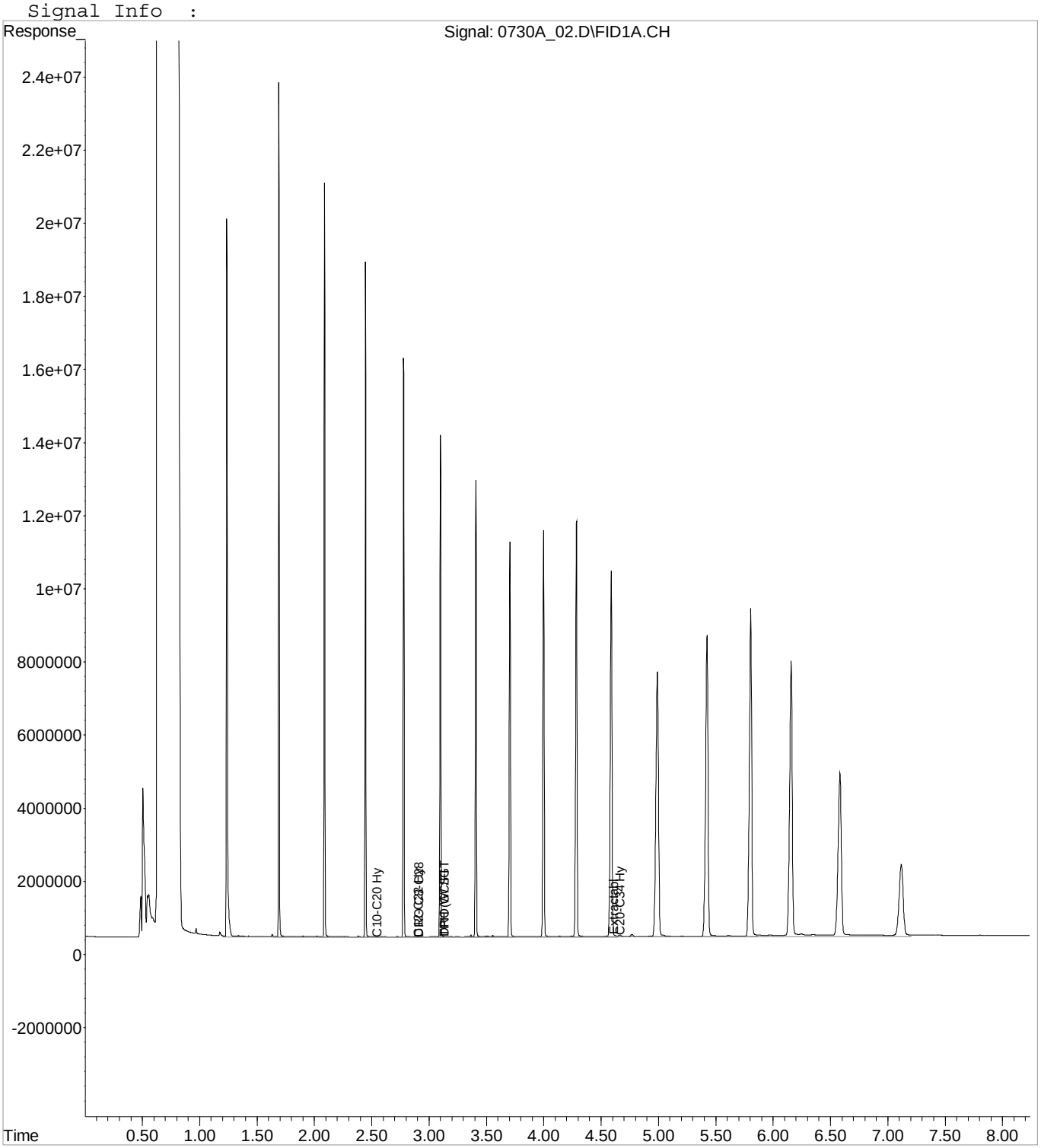
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,m,h C12-C22 Hydrocarbons	2.90	521337010	623.8574135	ppm
2) t,m,h TPH (GC/FID) HIGH FRACTION	3.14	916178591	947.0628273	ppm
3) H,M C10-C20 Hydrocarbons	2.55	551308651	565.8257979	ppm
4) t,m,h C20-C34 Hydrocarbons	4.66	730612567	749.8511725	ppm
5) h,t DRO W/ SGT	3.14	916178591	946.9774131	ppm
6) h,m DRO C8-C28	2.92	1039580354	1038.4603455	ppm
7) t,m,h Extractable Petroleum Hydr	4.62	1452034985	1714.6543859	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Quant Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

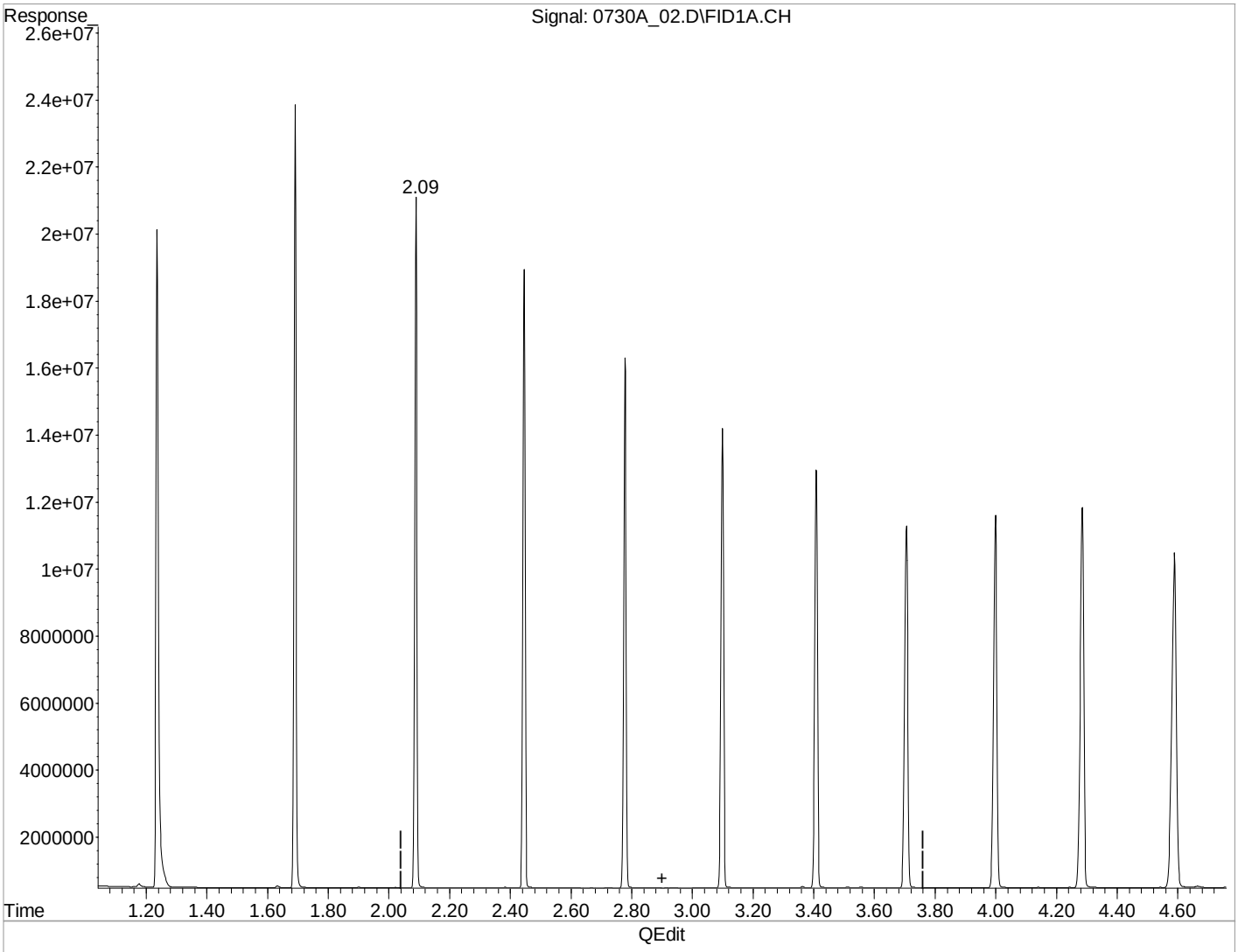
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(1) C12-C22 Hydrocarbons (t,m,h)

2.90min 623.8574135 ppm m

response 521337010

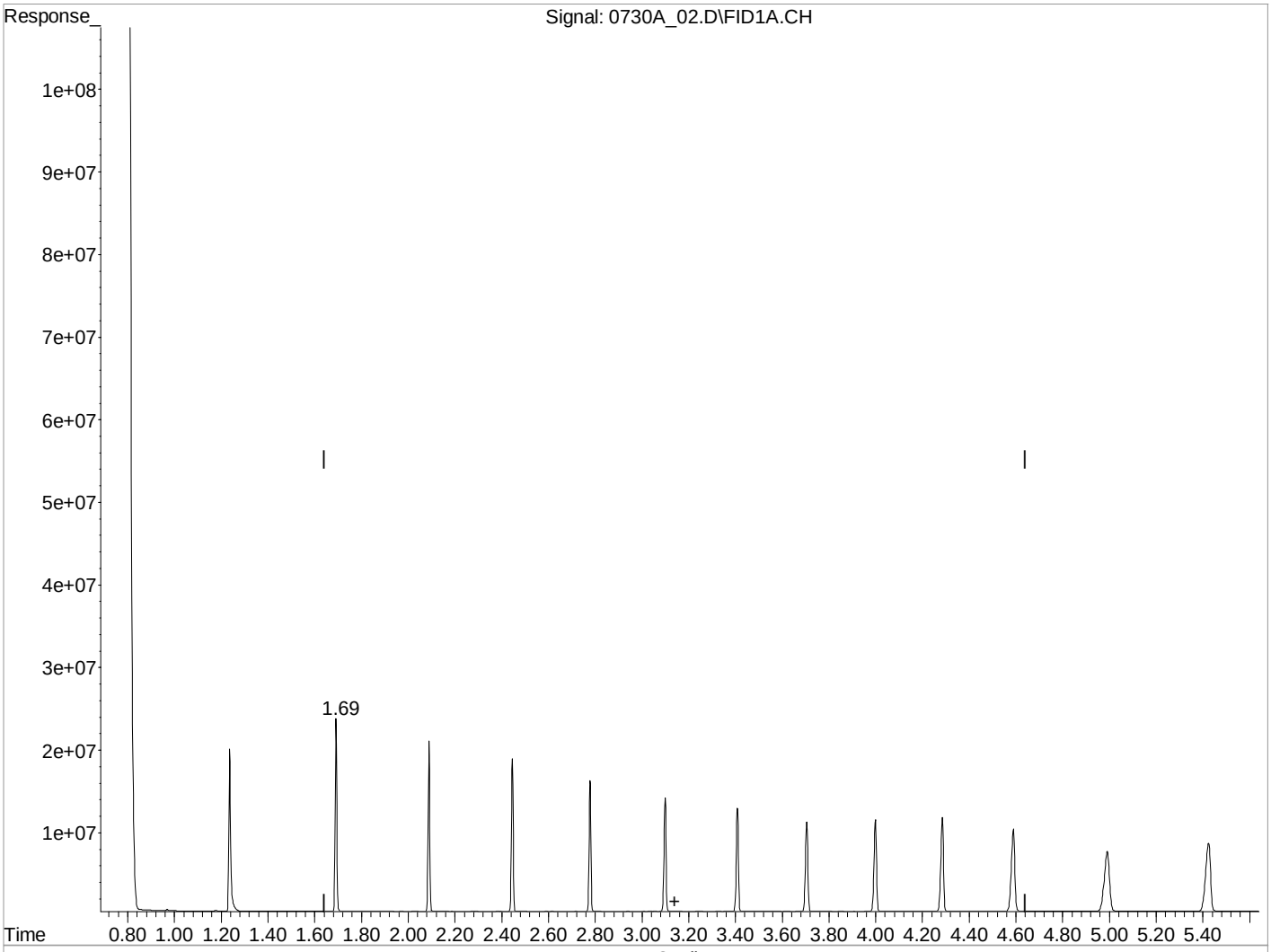
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:03:49 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(2) TPH (GC/FID) HIGH FRACTION (t,m,h)

3.14min 947.0628273 ppm m

response 916178591

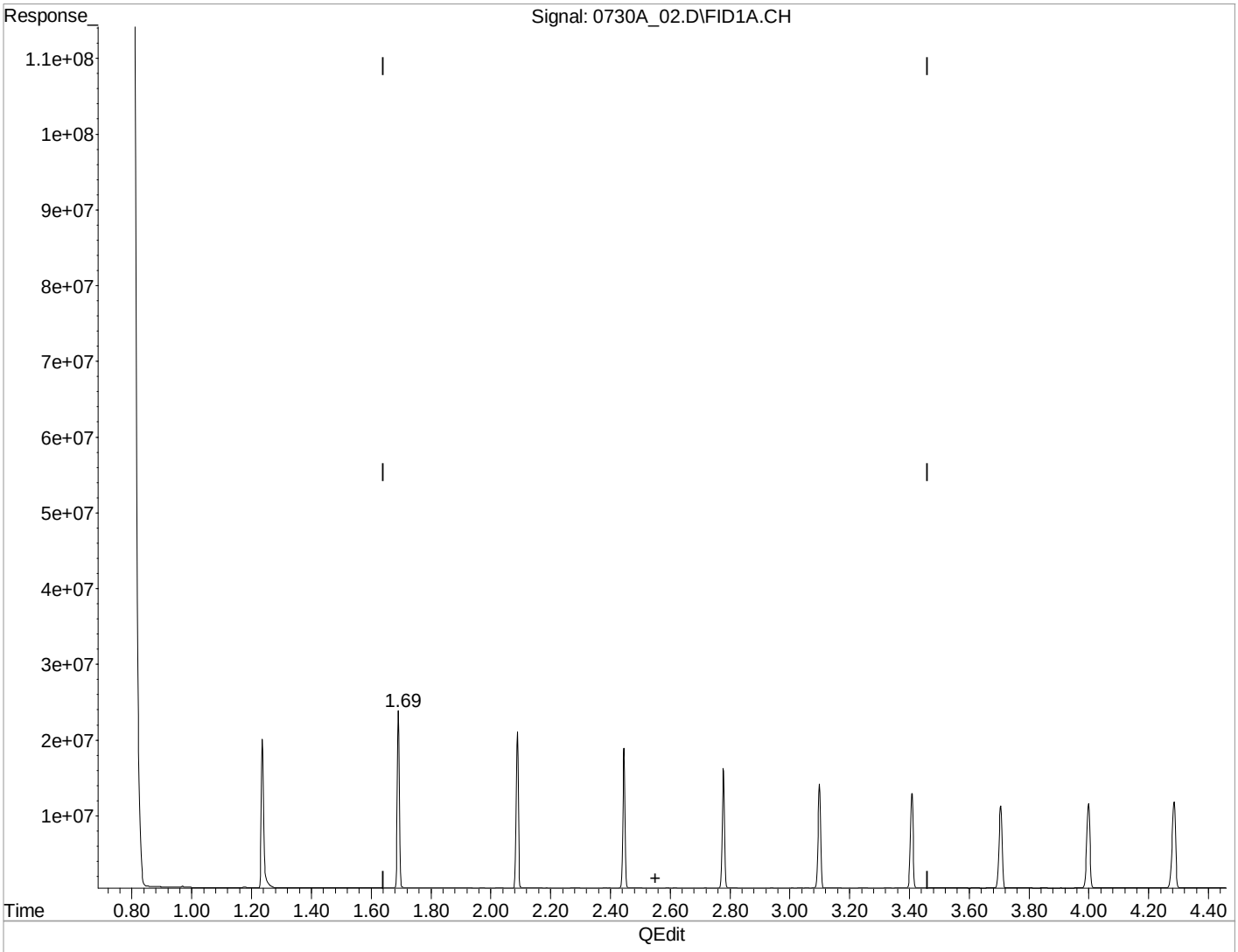
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:03:55 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(3) C10-C20 Hydrocarbons (H,M)

2.55min 565.8257979 ppm m

response 551308651

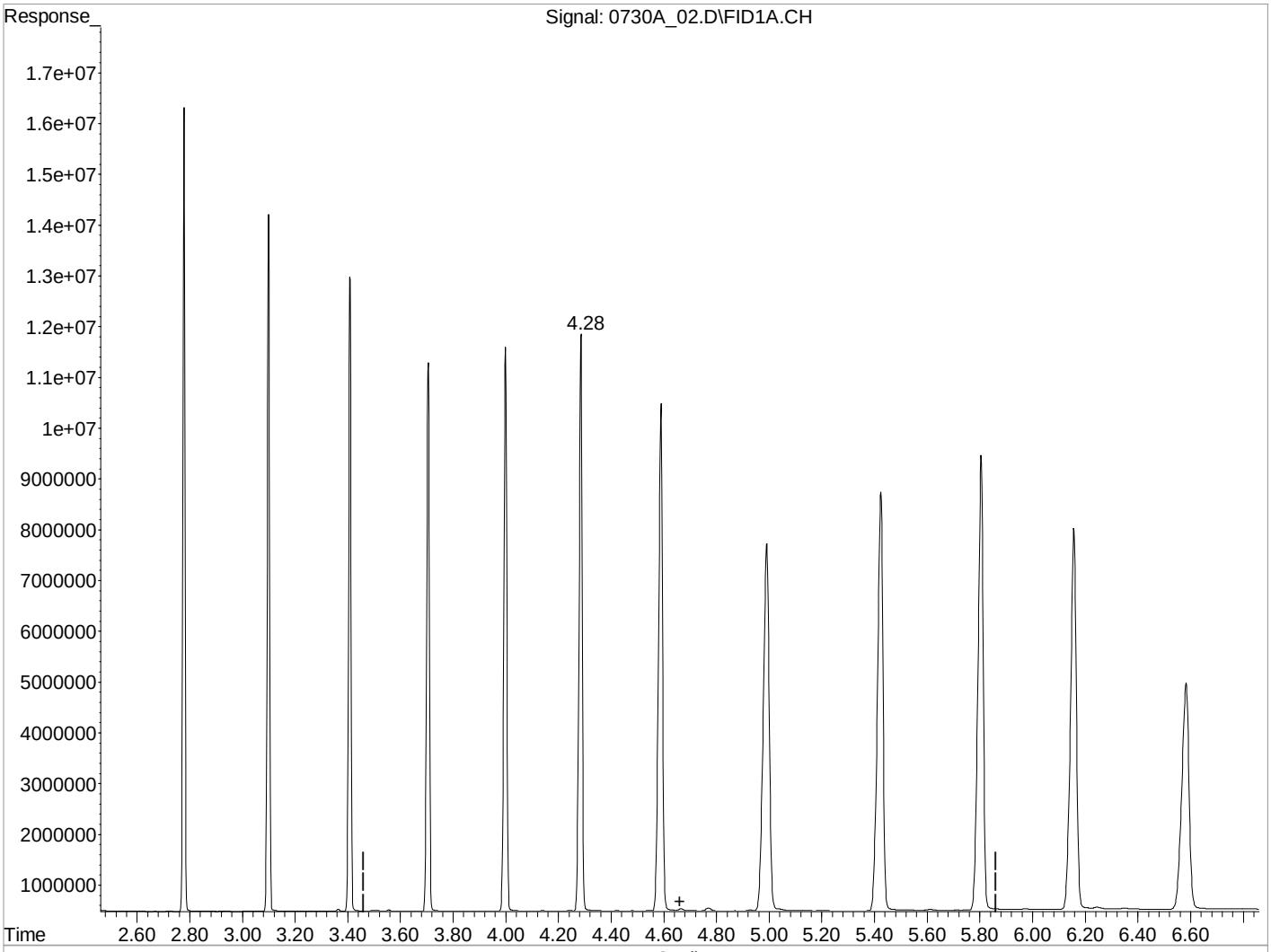
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:04:00 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(4) C20-C34 Hydrocarbons (t,m,h)

4.66min 749.8511725 ppm m

response 730612567

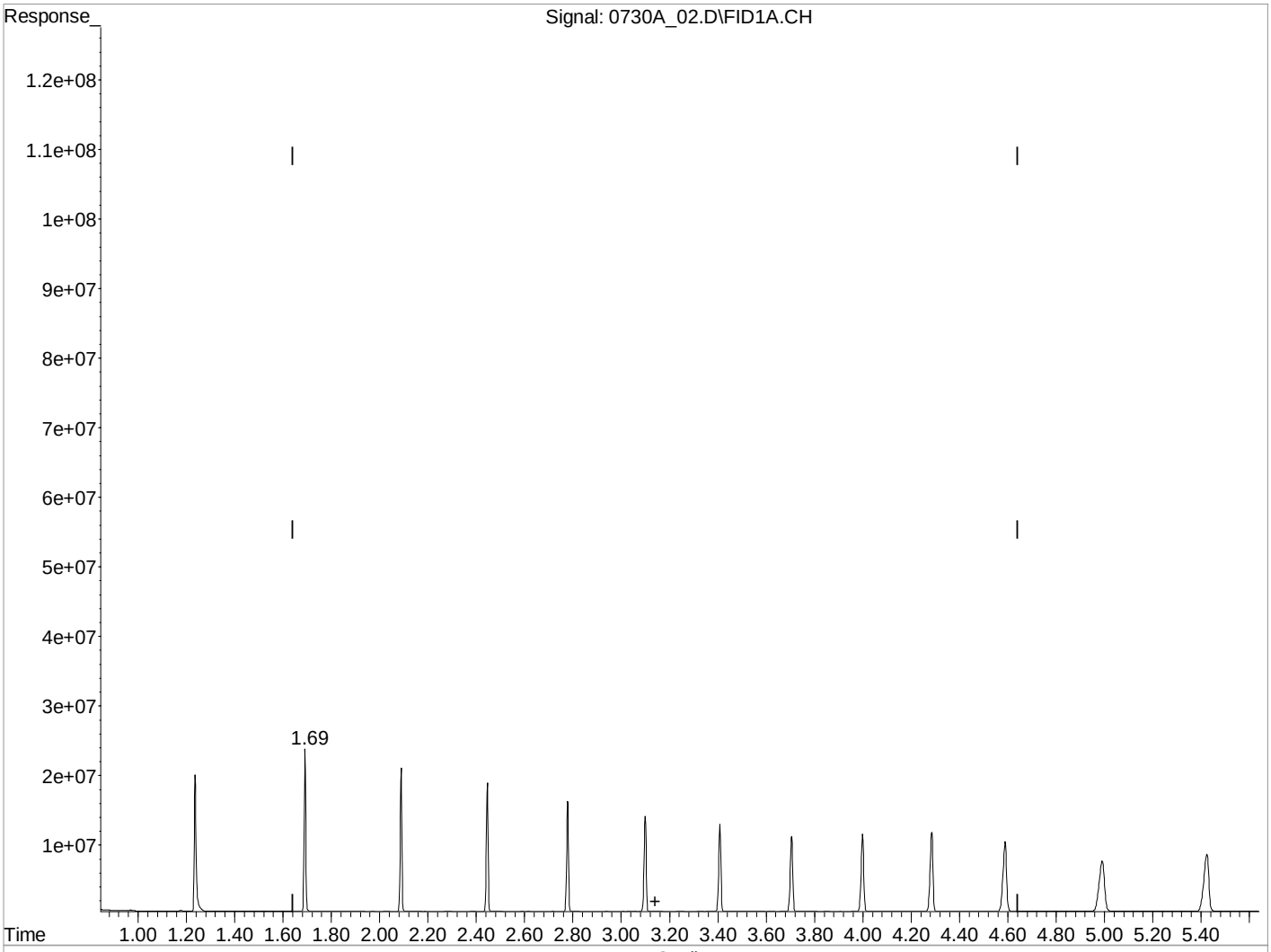
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:04:03 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(5) DRO W/ SGT (h,t)

3.14min 946.9774131 ppm m

response 916178591

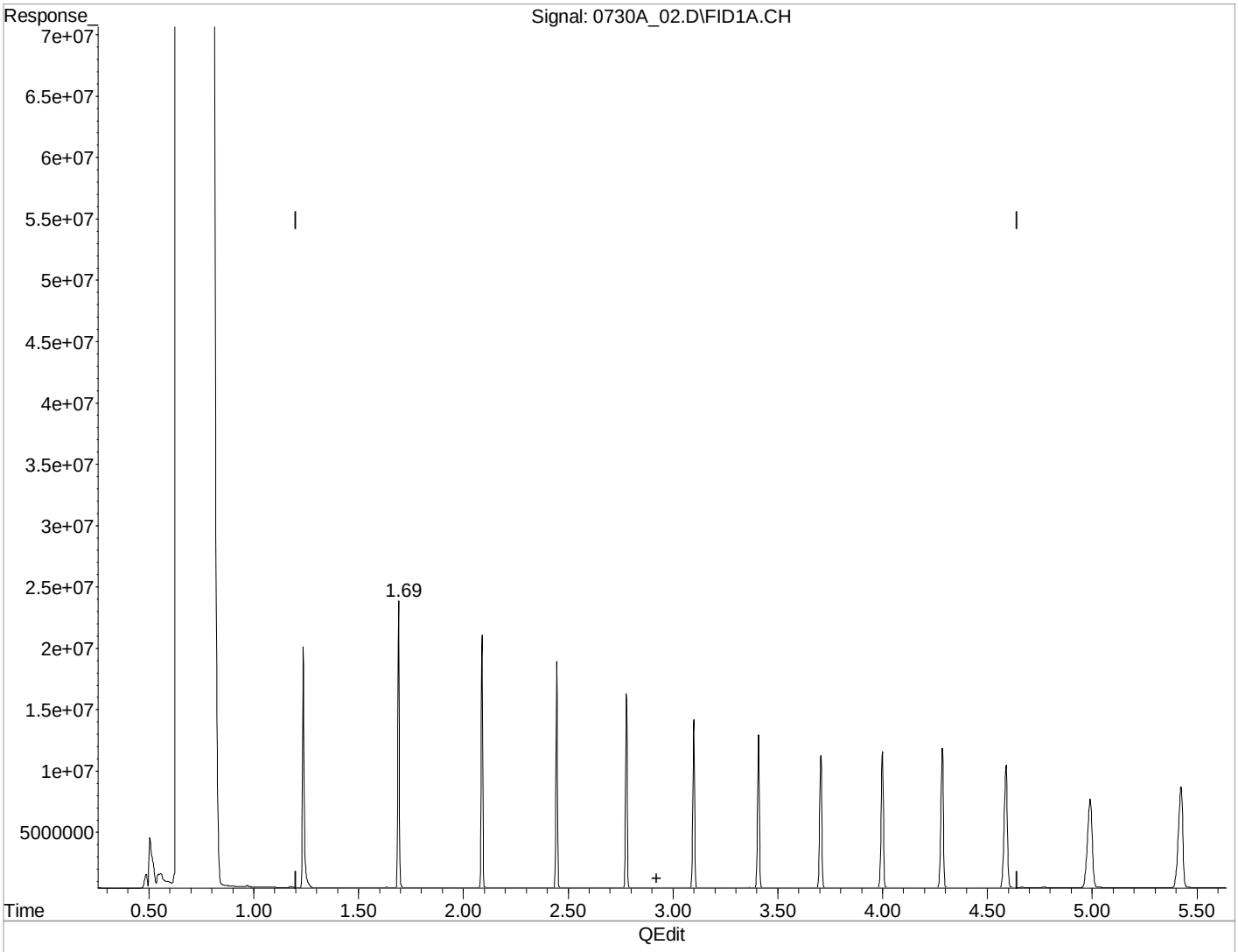
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:04:07 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(6) DRO C8-C28 (h,m)

2.92min 1038.4603455 ppm m

response 1039580354

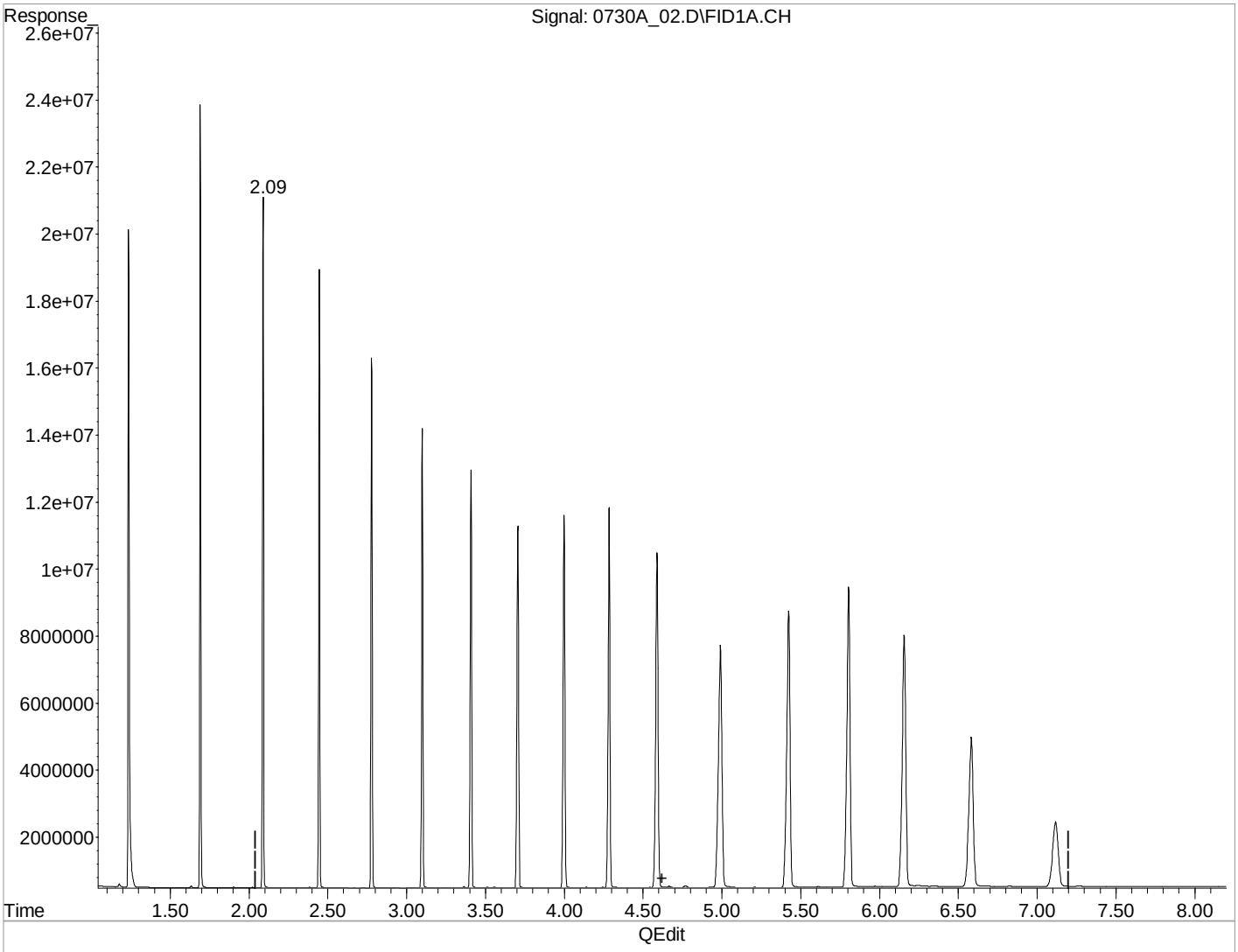
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:04:11 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(7) Extractable Petroleum Hydrocarbon (t,m,h)

4.62min 1714.6543859 ppm m

response 1452034985

(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:04:14 2014

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 02.D        Vial: 2
Acq On    : 10-23-2014 03:31:54 PM                  Operator: 543
Sample    : LOC FL 14J160051                        Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:23:55 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:23:48 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

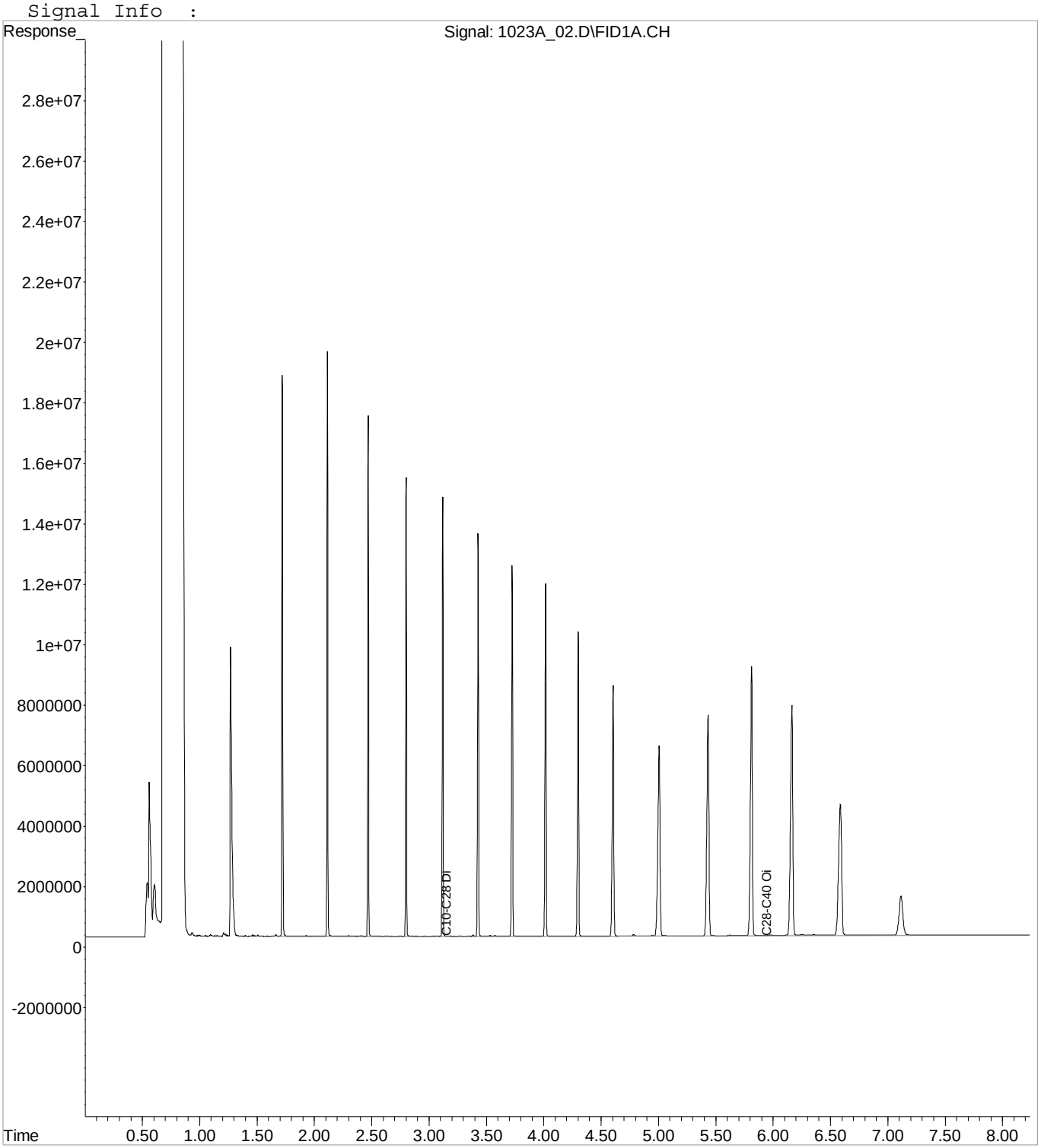
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	3.16	830023485	1940.6512764	ppm
2) h,m C28-C40 Oil Range	5.93	510377238	1765.0094751	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 02.D Vial: 2
Acq On : 10-23-2014 03:31:54 PM Operator: 543
Sample : LOC FL 14J160051 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:23 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:23:48 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

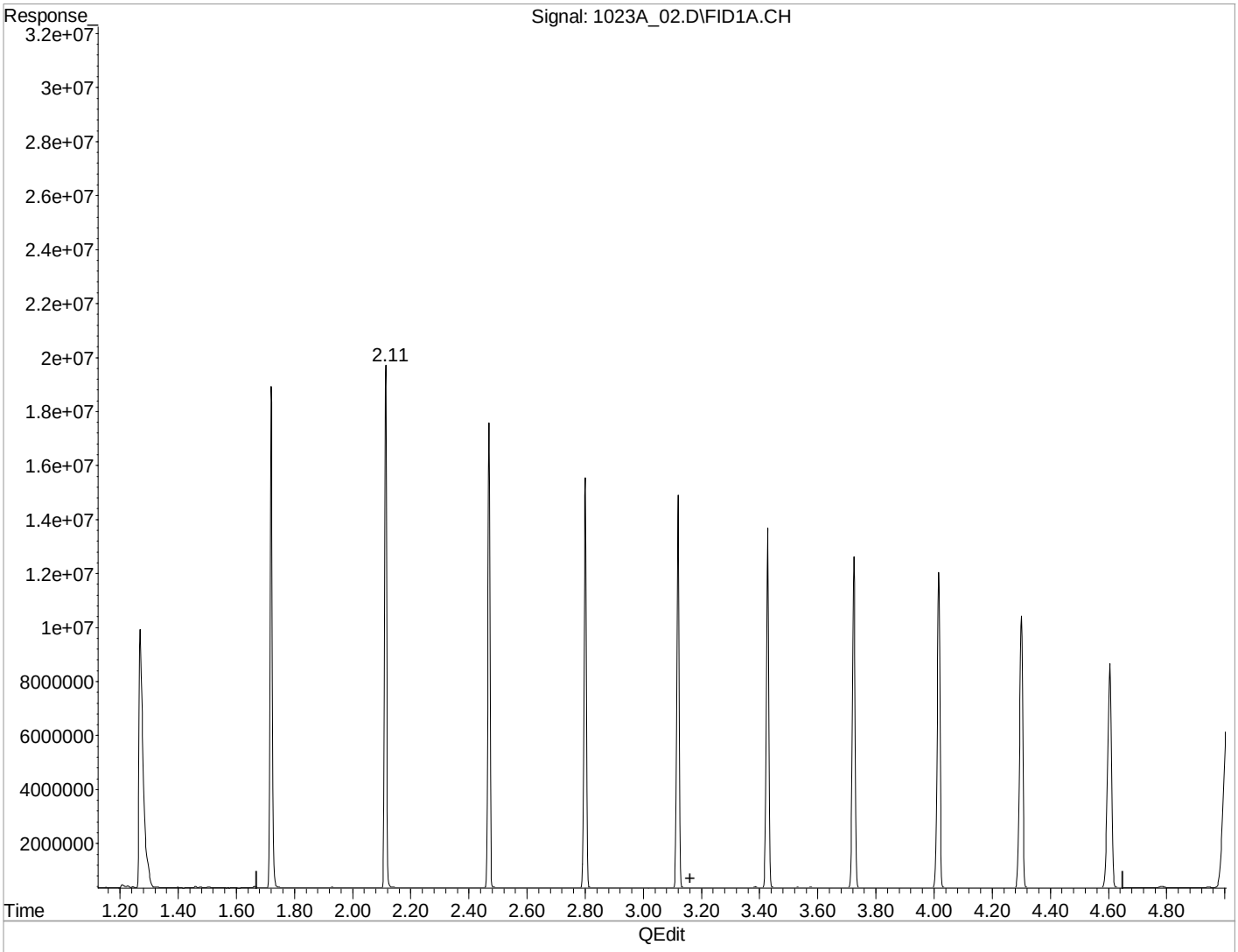
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 02.D Vial: 2
Acq On : 10-23-2014 03:31:54 PM Operator: 543
Sample : LOC FL 14J160051 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:23 2014 Quant Results File: LA16J23N.RES

Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration



(1) C10-C28 Diesel Range (h,m)

3.16min 1940.6512764 ppm m

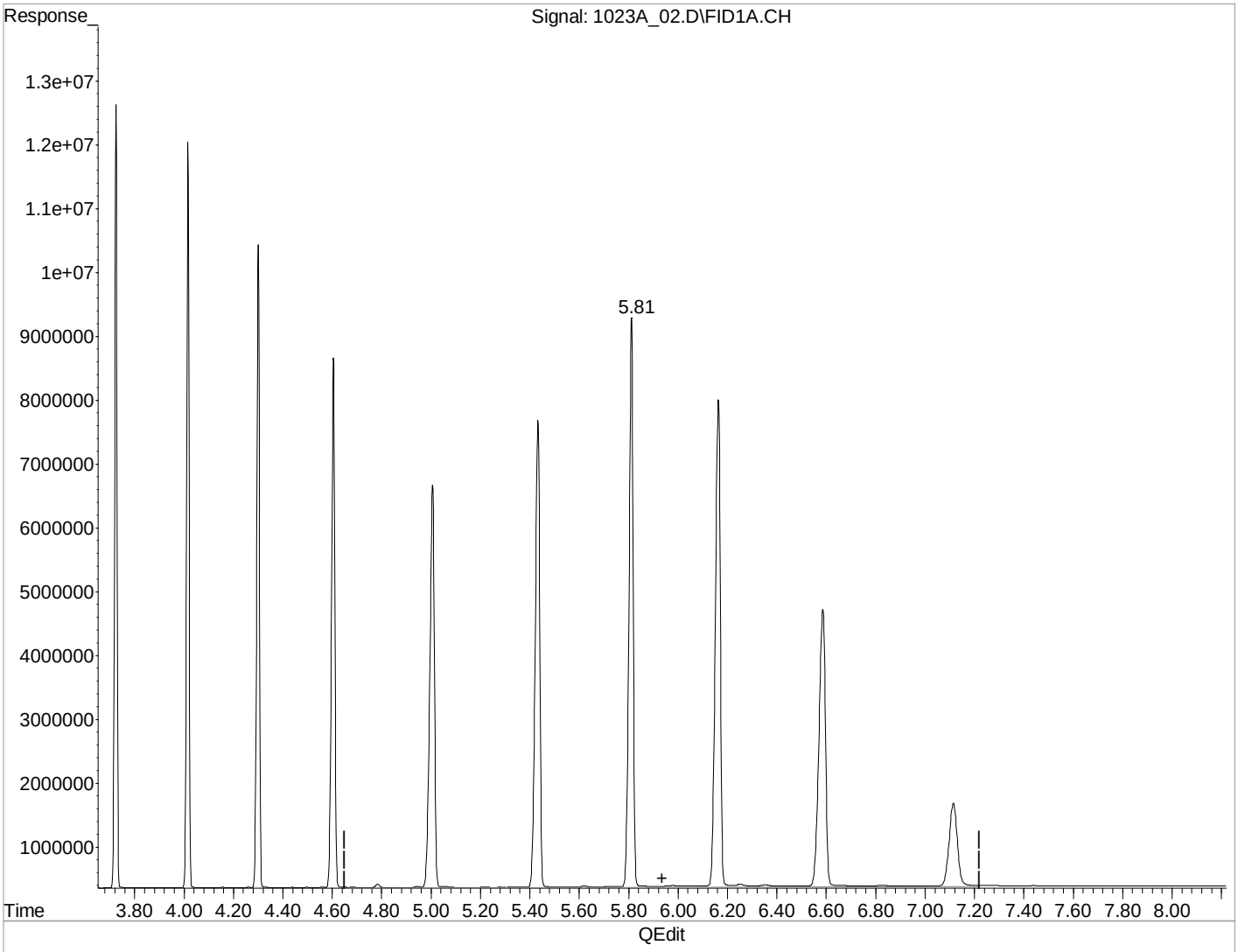
response 830023485

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 02.D Vial: 2
Acq On : 10-23-2014 03:31:54 PM Operator: 543
Sample : LOC FL 14J160051 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:23 2014 Quant Results File: LA16J23N.RES

Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration



(2) C28-C40 Oil Range (h,m)

5.93min 1765.0094751 ppm m

response 510377238

(+) = Expected Retention Time

1023A_02.D LA16J23N.M Tue Oct 28 14:30:12 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\0730B 11.D Vial: 11
Acq On : 30 Jul 2014 11:31 pm Operator: 543
Sample : SSCV DRO 1500 ppm 14G17272 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 14:28:14 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

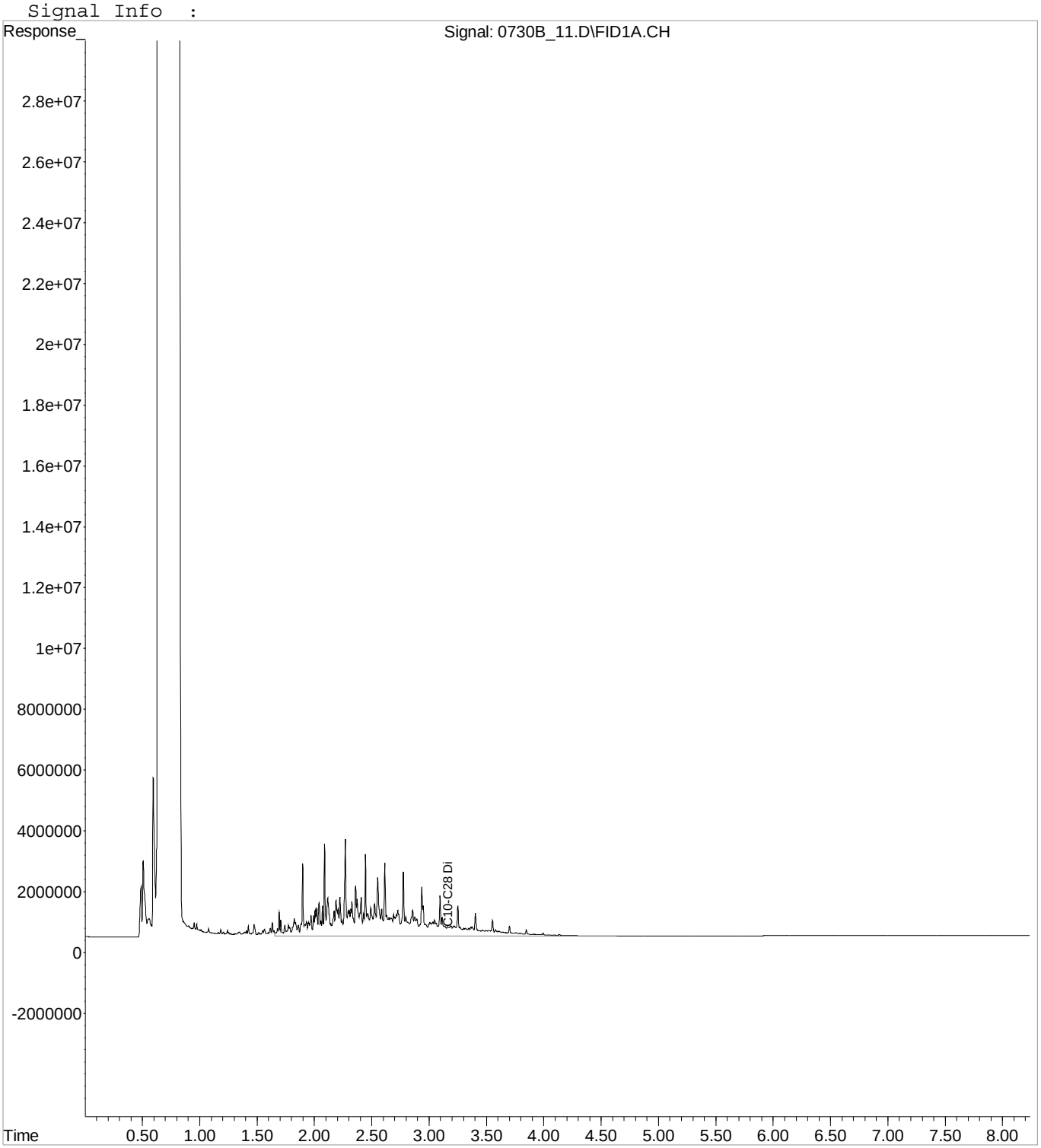
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	3.16	674881026	1574.4354360	ppm
2) h,m C28-C40 Oil Range	5.93	8651293	N.D.	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\0730B 11.D Vial: 11
Acq On : 30 Jul 2014 11:31 pm Operator: 543
Sample : SSCV DRO 1500 ppm 14G17272 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 14:28 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 11.D        Vial: 11
Acq On    : 10-23-2014 05:44:46 PM                  Operator: 543
Sample    : SSCV 10W30 1500 ppm 14J23434            Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 28 14:28:37 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

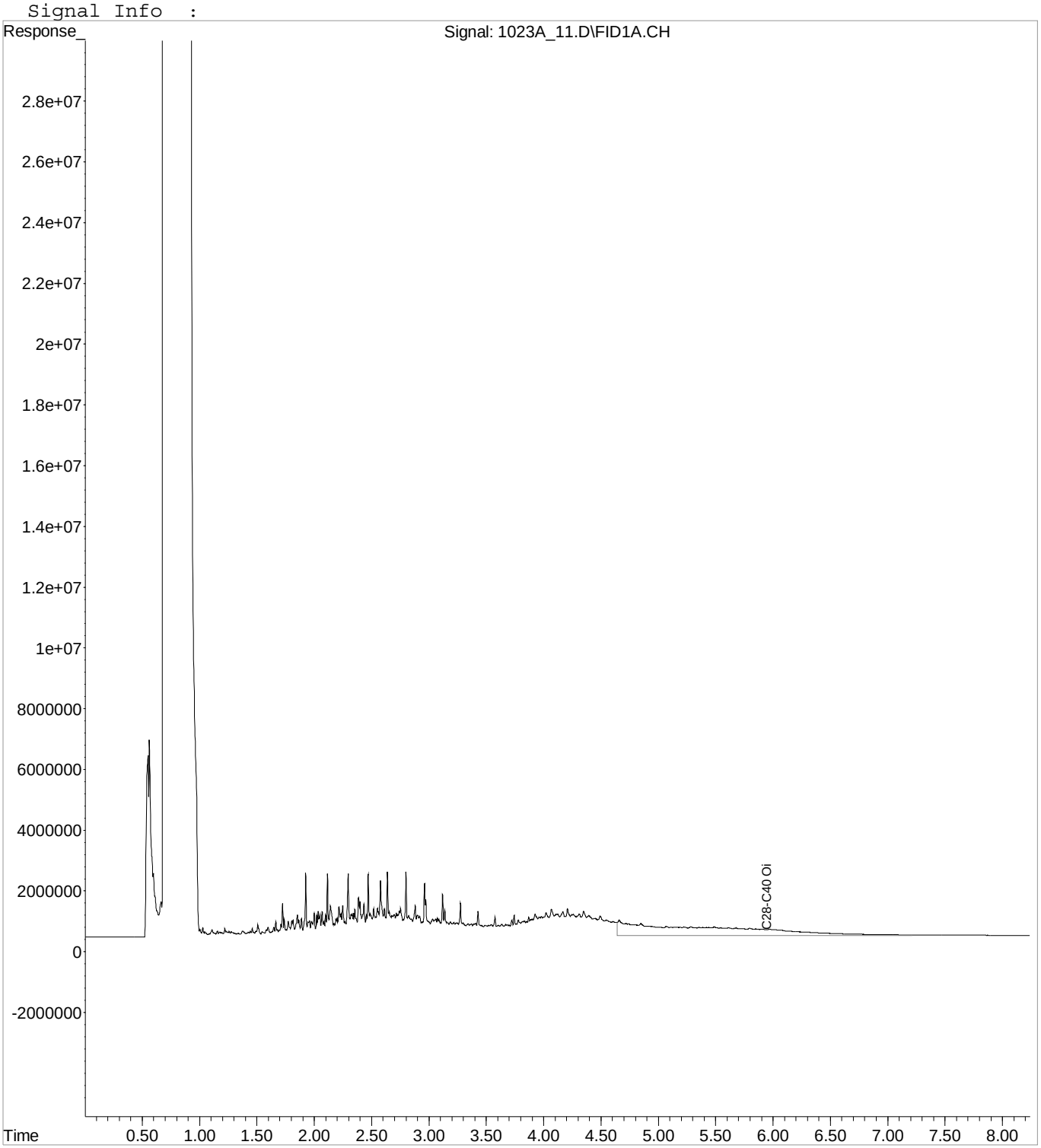
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	268952122	1203.5218318	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 11.D Vial: 11
Acq On : 10-23-2014 05:44:46 PM Operator: 543
Sample : SSCV 10W30 1500 ppm 14J23434 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 14:29 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 03.D        Vial: 3
Acq On    : 10-23-2014 03:44:03 PM                  Operator: 543
Sample    : STD 10W30 50M ppm 14J23427              Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:24:13 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:23:48 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

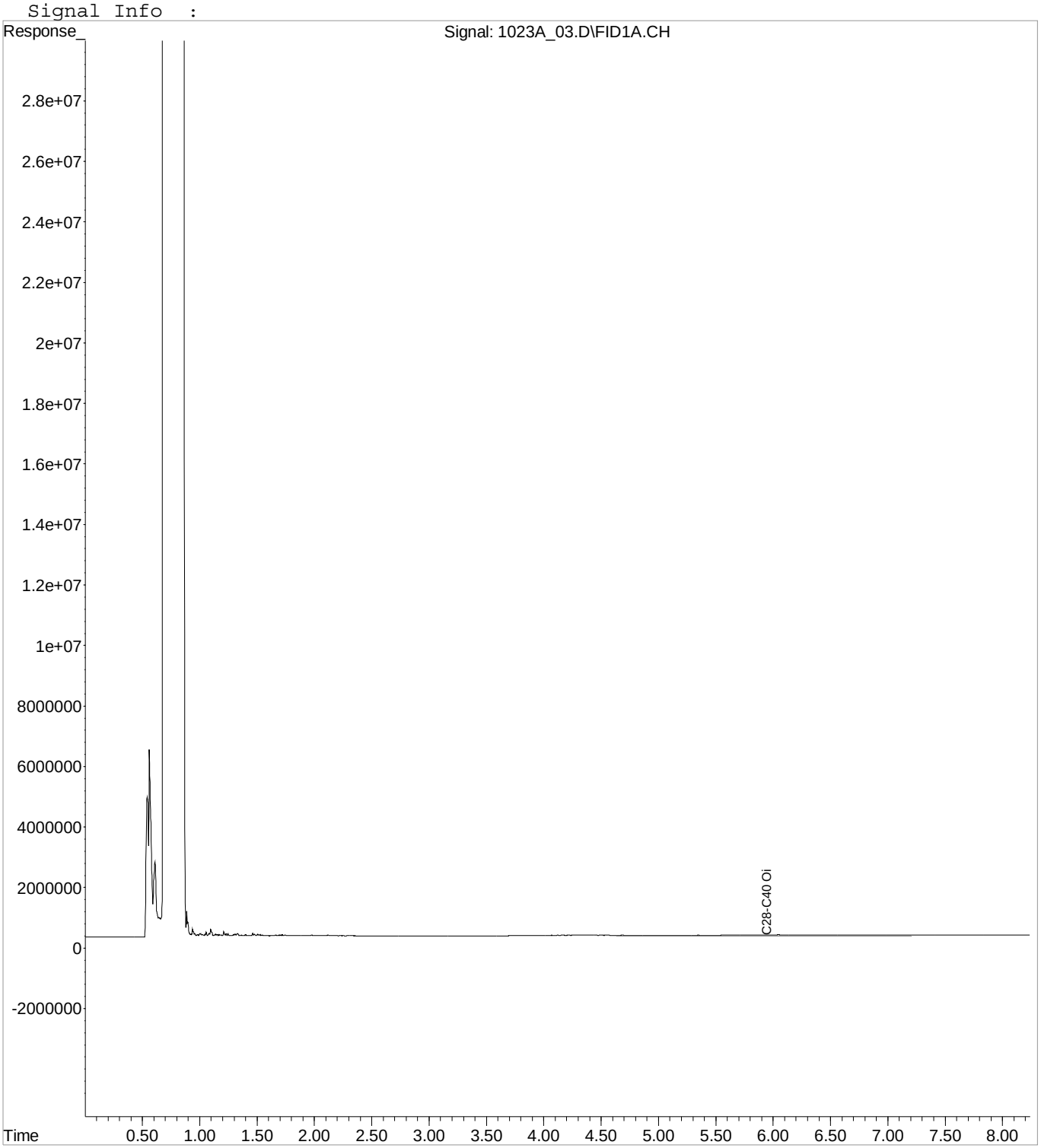
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	45636462	120.6724103	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 03.D Vial: 3
Acq On : 10-23-2014 03:44:03 PM Operator: 543
Sample : STD 10W30 50M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:24 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:23:48 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 04.D Vial: 4
Acq On : 10-23-2014 04:19:28 PM Operator: 543
Sample : STD 10W30 100M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:24:47 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:24:44 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

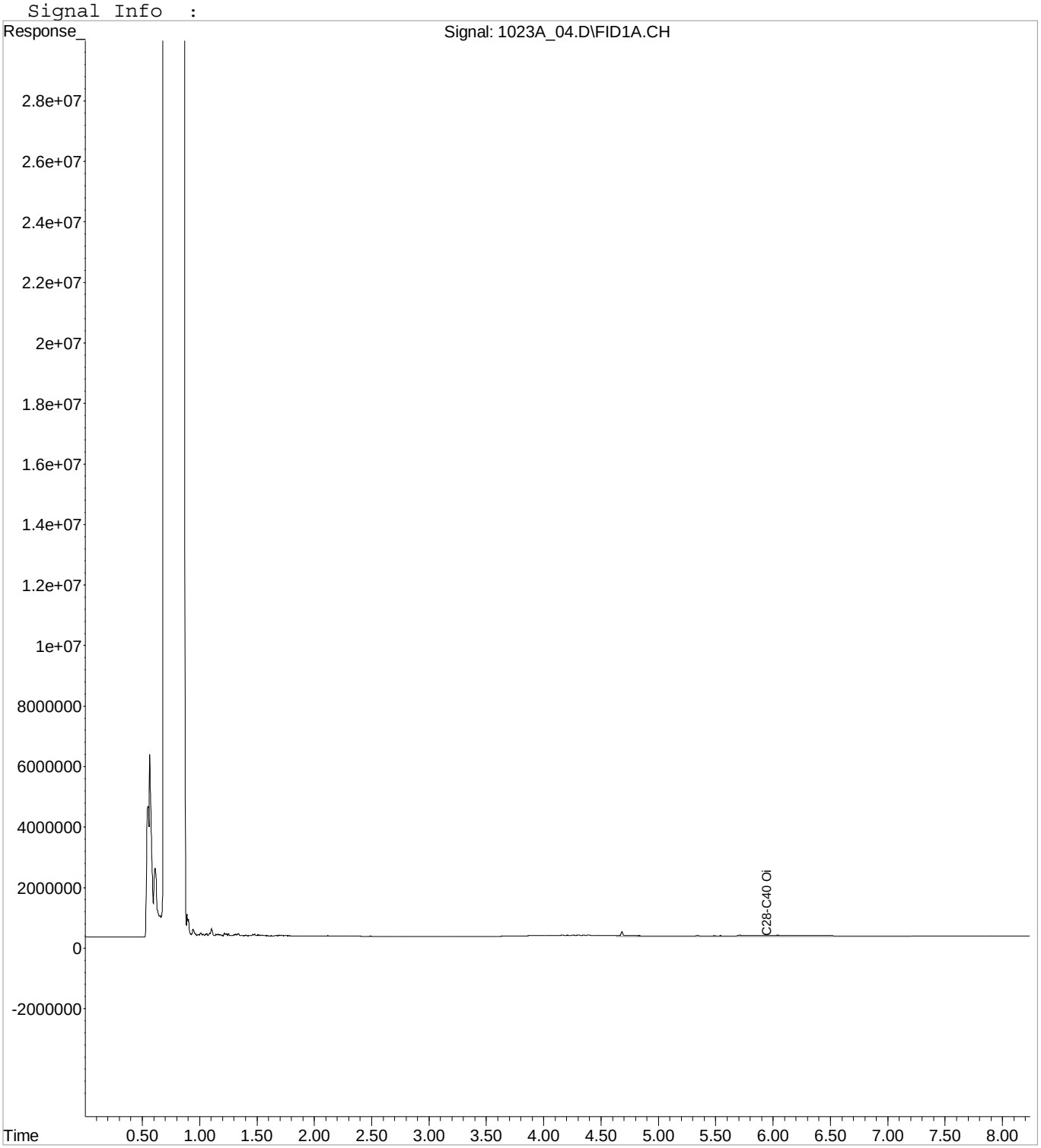
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	40877010	107.2310002	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 04.D Vial: 4
Acq On : 10-23-2014 04:19:28 PM Operator: 543
Sample : STD 10W30 100M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:24 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:24:44 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 05.D        Vial: 5
Acq On    : 10-23-2014 04:31:33 PM                  Operator: 543
Sample    : STD 10W30 200M ppm 14J23427             Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:25:04 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:25:01 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

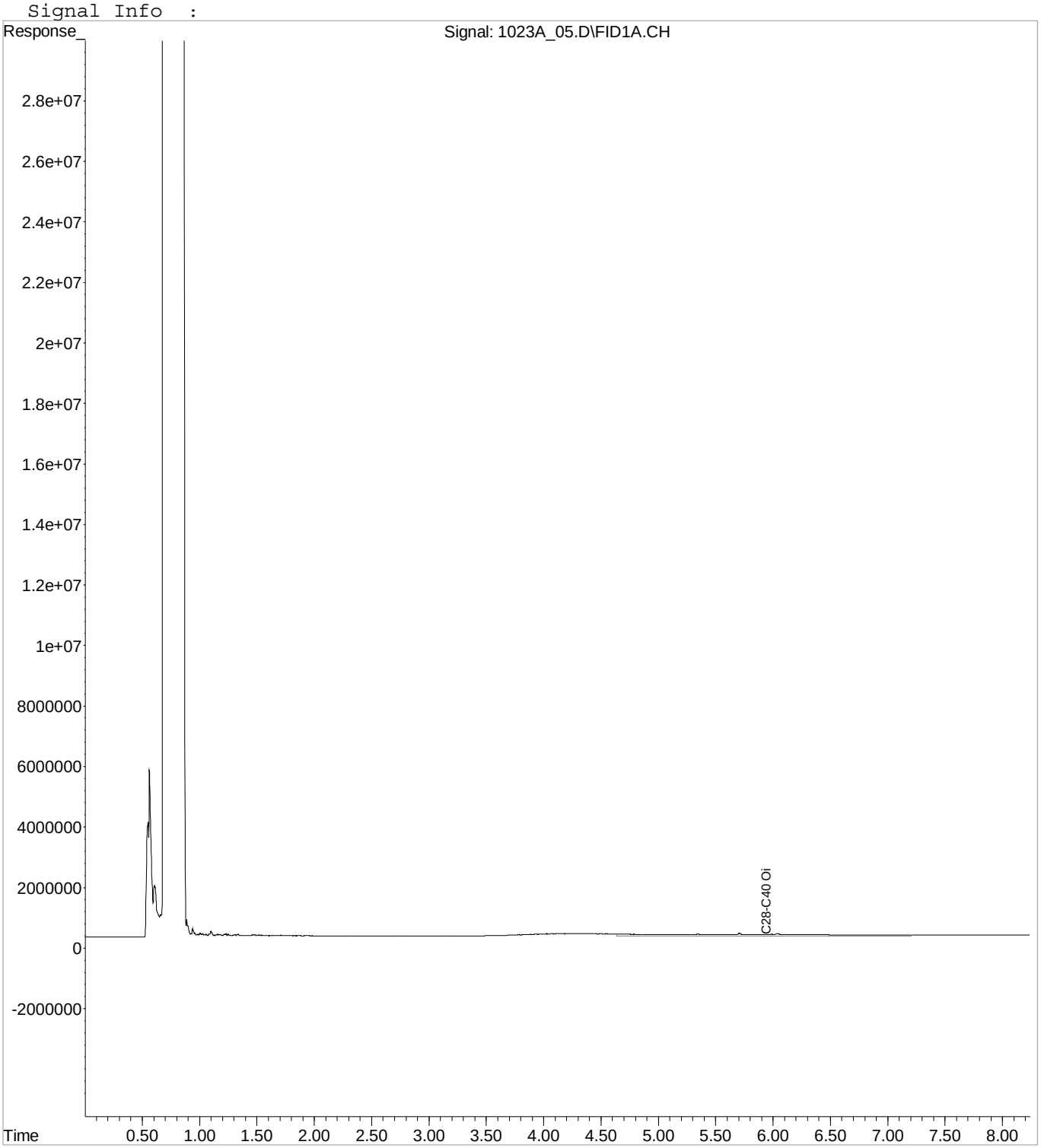
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	74547967	231.1416055	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 05.D Vial: 5
Acq On : 10-23-2014 04:31:33 PM Operator: 543
Sample : STD 10W30 200M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:25 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:01 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 06.D Vial: 6
Acq On : 10-23-2014 04:43:42 PM Operator: 543
Sample : STD 10W30 500M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:25:24 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:21 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

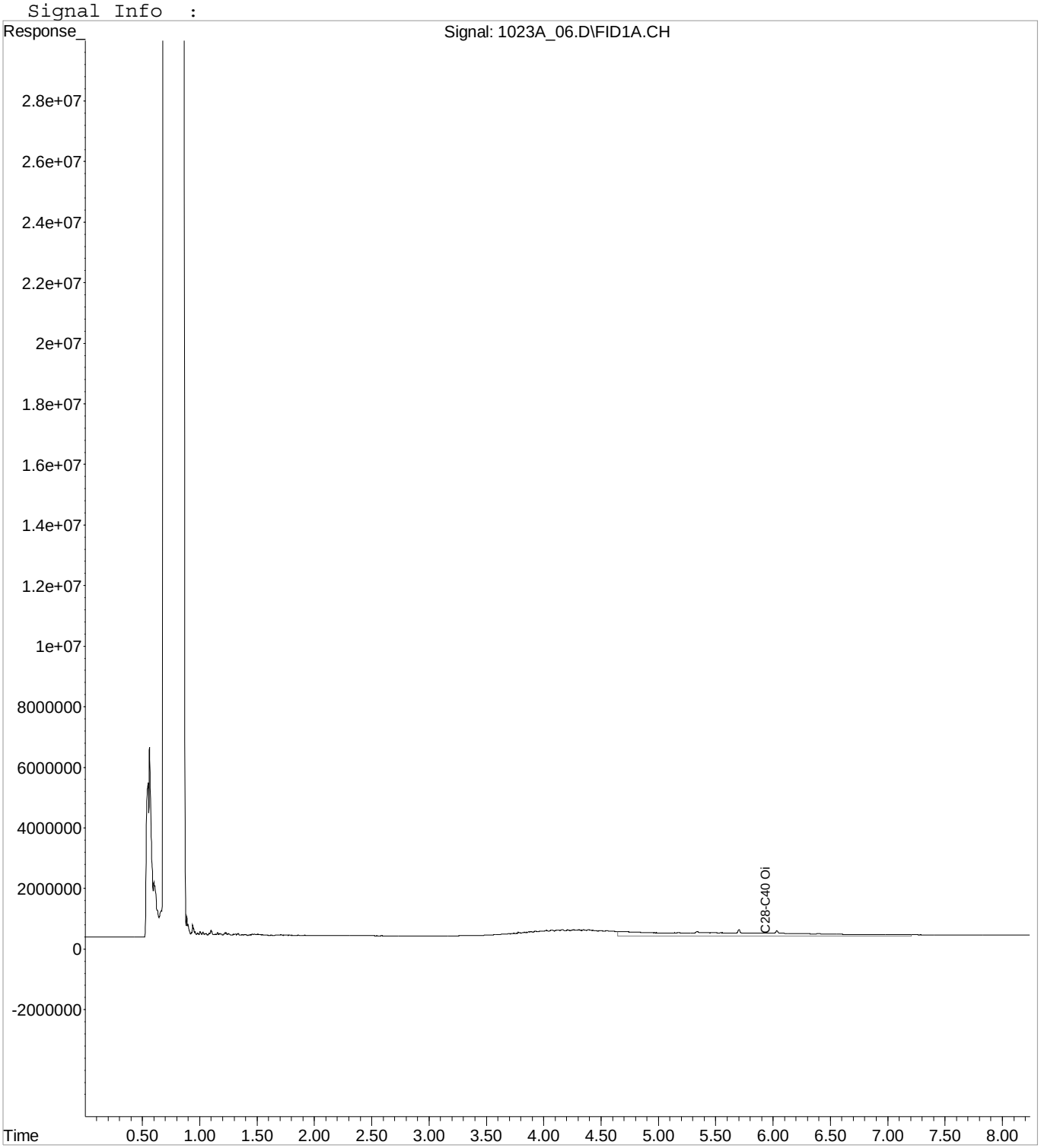
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	127318778	425.6072252	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 06.D Vial: 6
Acq On : 10-23-2014 04:43:42 PM Operator: 543
Sample : STD 10W30 500M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:25 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:21 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 07.D        Vial: 7
Acq On    : 10-23-2014 04:55:52 PM                  Operator: 543
Sample    : STD 10W30 1KM ppm 14J23427              Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:25:39 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:25:37 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

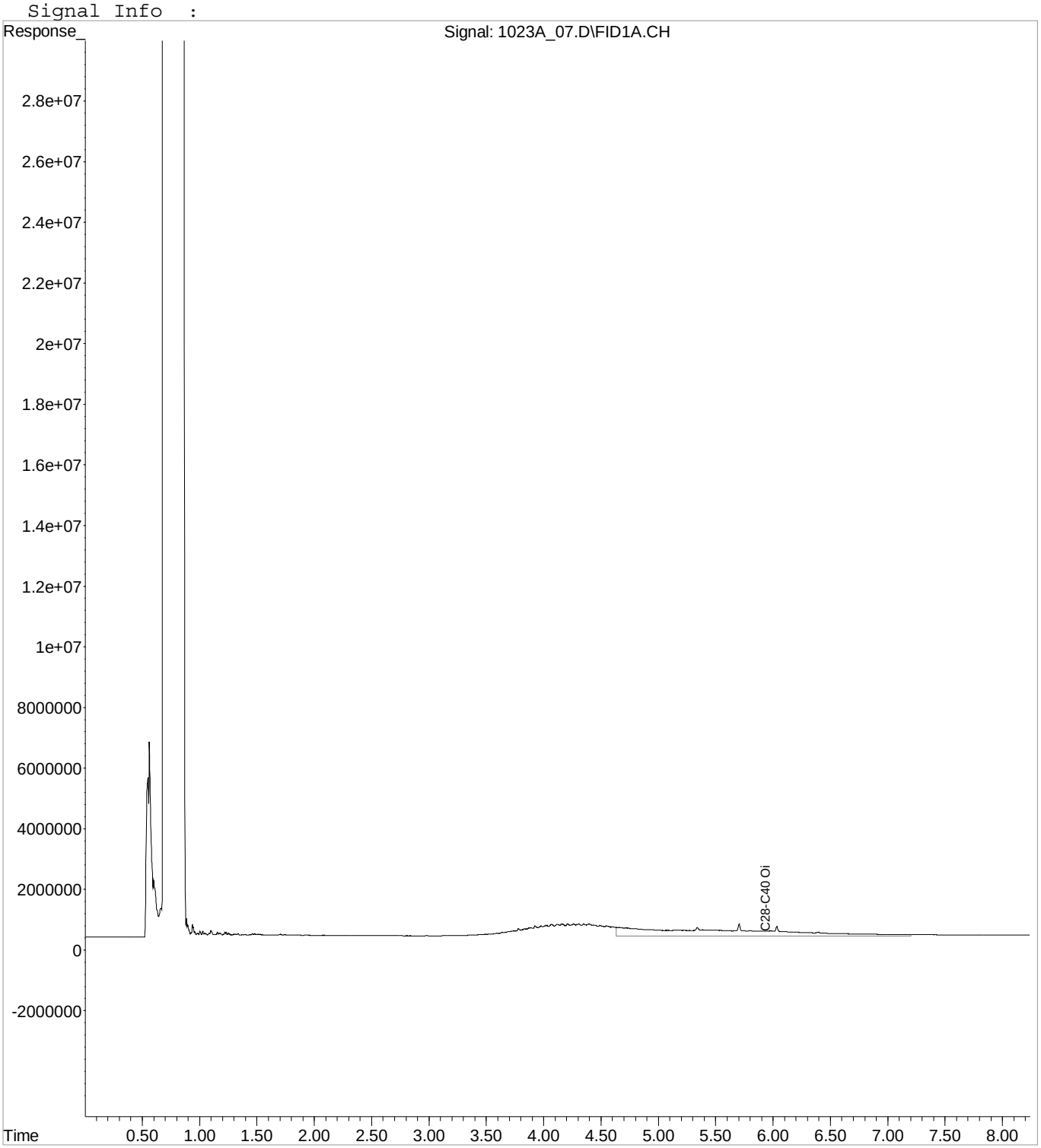
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	218621838	764.4133216	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 07.D Vial: 7
Acq On : 10-23-2014 04:55:52 PM Operator: 543
Sample : STD 10W30 1KM ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 10:37 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:37 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 08.D        Vial: 8
Acq On    : 10-23-2014 05:08:02 PM                  Operator: 543
Sample    : STD 10W30 2KM ppm 14J23427              Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:25:58 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:25:54 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

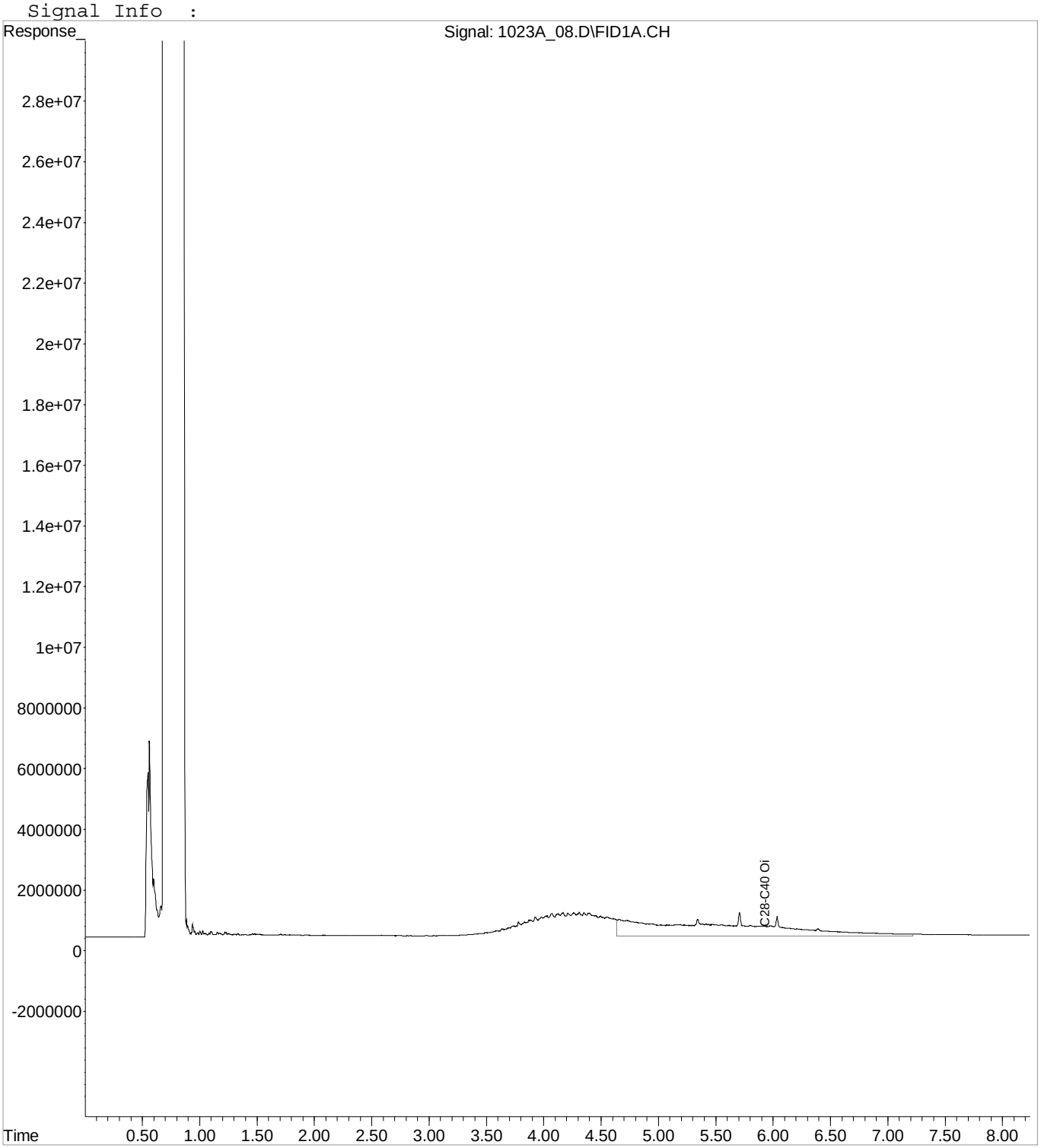
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	417669036	1488.6241042	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 08.D Vial: 8
Acq On : 10-23-2014 05:08:02 PM Operator: 543
Sample : STD 10W30 2KM ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:26 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:54 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 09.D Vial: 9
Acq On : 10-23-2014 05:20:22 PM Operator: 543
Sample : STD 10W30 2.5K ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:26:13 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:26:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

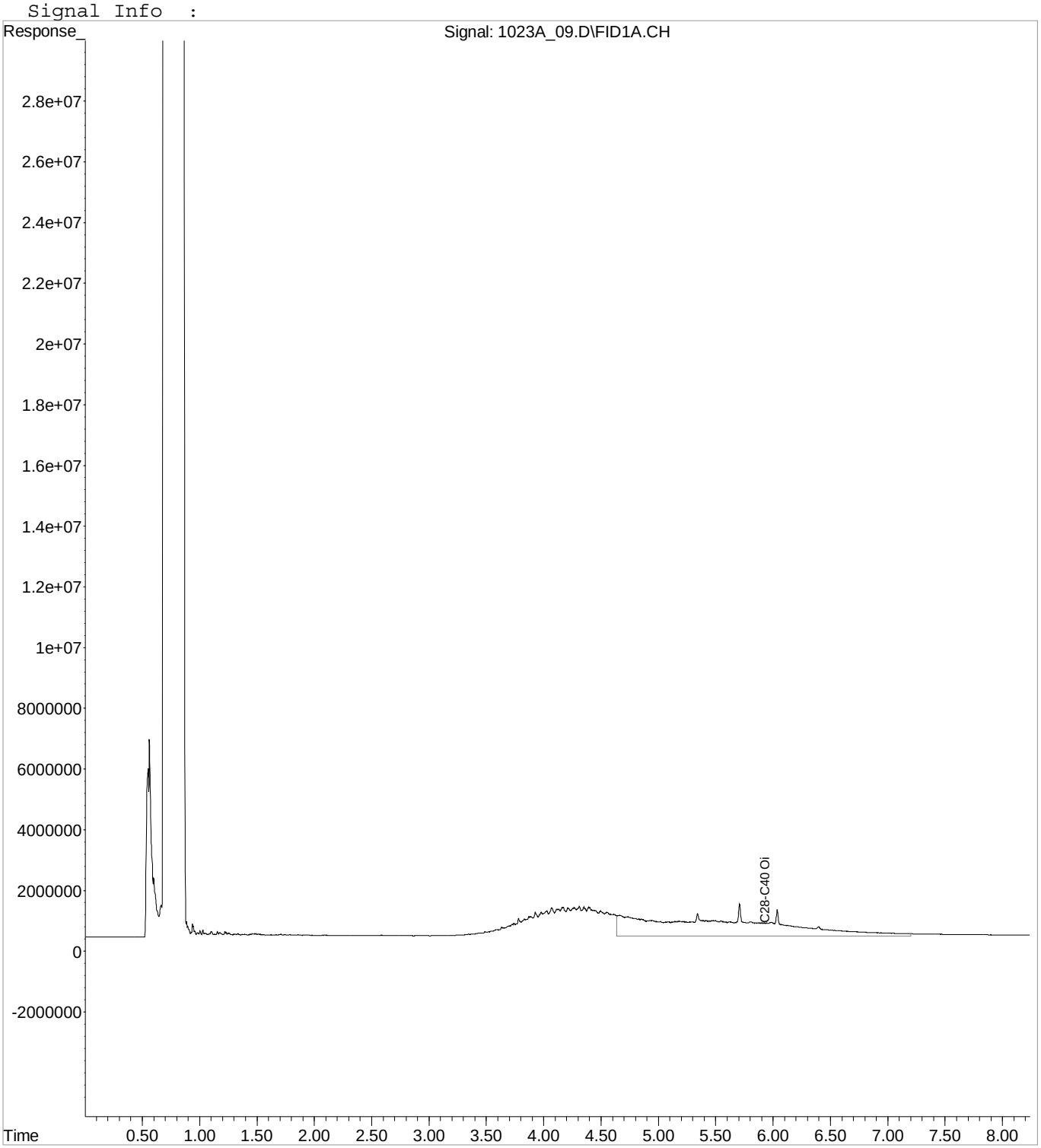
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	541539004	1976.6738531	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 09.D Vial: 9
Acq On : 10-23-2014 05:20:22 PM Operator: 543
Sample : STD 10W30 2.5K ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 10:38 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:26:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 10.D         Vial: 10
Acq On    : 10-23-2014 05:32:36 PM                   Operator: 543
Sample    : STD 10W30 5KMppm 14J23427                Inst    : SVGC16
Misc      :                                          Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:26:28 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:26:25 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

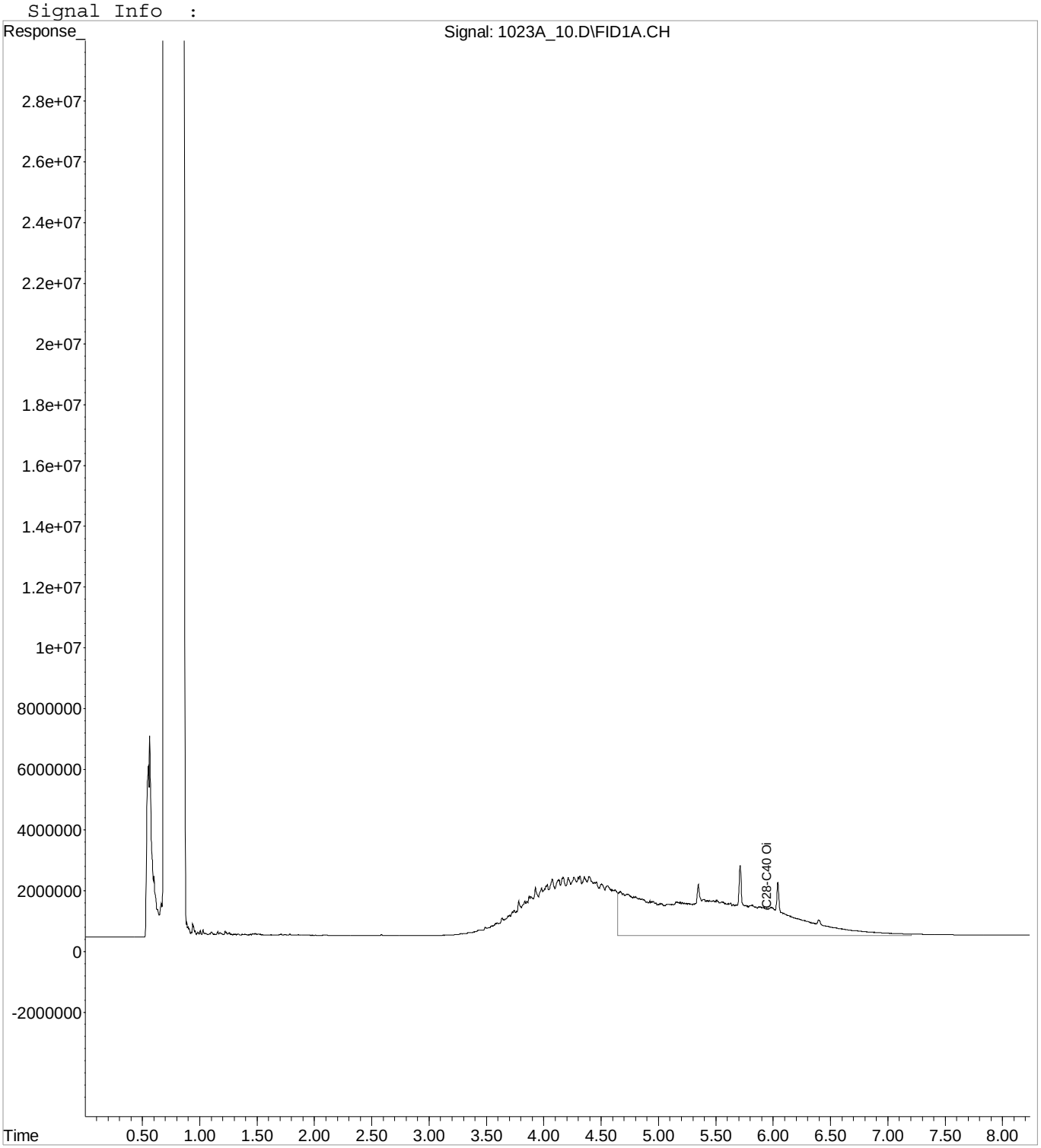
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	1134541207	4200.9500219	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 10.D Vial: 10
Acq On : 10-23-2014 05:32:36 PM Operator: 543
Sample : STD 10W30 5KMppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 10:39 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:26:25 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

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: L729026

Semi-Volatiles by Method 8270C
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG750215**
Description: **SVOCs by Method 8270C (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729026-01 1x	10/20/2014	10/25/2014	10/27/2014
L729026-02 1x	10/20/2014	10/25/2014	10/27/2014
L729026-03 1x	10/20/2014	10/25/2014	10/27/2014
L729026-05 1x	10/20/2014	10/25/2014	10/27/2014
L729026-06 1x	10/20/2014	10/25/2014	10/27/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS4	LCS WG750215	LCS WG750215	1027_04.D	10/27/2014	1:49 PM
BNAMS4	LCSD WG750215	LCSD WG750215	1027_05.D	10/27/2014	2:11 PM
BNAMS4	Blank WG750215	Blank WG750215	1027_06.D	10/27/2014	2:33 PM
BNAMS4	MS WG750215	MS WG750215	1027_09.D	10/27/2014	3:39 PM
BNAMS4	MSD WG750215	MSD WG750215	1027_10.D	10/27/2014	4:01 PM
BNAMS4	TU503-SB01-DS01	L729026-01	1027_18.D	10/27/2014	6:56 PM
BNAMS4	TU503-SB01-NS01	L729026-02	1027_19.D	10/27/2014	7:18 PM
BNAMS4	TU503-SB01-NS02	L729026-03	1027_20.D	10/27/2014	7:39 PM
BNAMS4	TU503-SB05-NS01	L729026-05	1027_21.D	10/27/2014	8:01 PM
BNAMS4	TU503-SB05-NS02	L729026-06	1027_22.D	10/27/2014	8:23 PM

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,2,4-Trichlorobenzene	120-82-1	< 333	< 8.76	
2,4,5-Trichlorophenol	95-95-4	< 333	< 10.4	
2,4,6-Trichlorophenol	88-06-2	< 333	< 7.79	
2,4-Dichlorophenol	120-83-2	< 333	< 7.46	
2,4-Dimethylphenol	105-67-9	< 333	< 47.1	
2,4-Dinitrophenol	51-28-5	< 333	< 98.0	
2,4-Dinitrotoluene	121-14-2	< 333	< 6.07	
2,6-Dinitrotoluene	606-20-2	< 333	< 7.37	
2-Chloronaphthalene	91-58-7	< 333	< 6.27	
2-Chlorophenol	95-57-8	< 333	< 8.31	
2-Methylphenol	95-48-7	< 333	< 9.86	
2-Nitroaniline	88-74-4	< 333	< 7.55	
2-Nitrophenol	88-75-5	< 333	< 13.0	
3&4-Methyl Phenol	3&4-Methyl Phenol	< 333	< 7.83	
3,3-Dichlorobenzidine	91-94-1	< 333	< 79.4	
3-Nitroaniline	99-09-2	< 333	< 8.5	
4,6-Dinitro-2-methylphenol	534-52-1	< 333	< 124	
4-Bromophenyl-phenylether	101-55-3	< 333	< 11.4	
4-Chloro-3-methylphenol	59-50-7	< 333	< 4.77	
4-Chloroaniline	106-47-8	< 333	< 3.52	
4-Chlorophenyl-phenylether	7005-72-3	< 333	< 6.27	
4-Nitroaniline	100-01-6	< 333	< 6.39	
4-Nitrophenol	100-02-7	< 333	< 52.5	
Azobenzene	103-33-3	< 333	< 1.41	
Benzoic Acid	65-85-0	< 3330	< 123	
Benzyl Alcohol	100-51-6	< 333	< 7.5	
Benzylbutyl phthalate	85-68-7	< 333	< 10.3	
Bis(2-chlorethoxy)methane	111-91-1	< 333	< 7.7	
Bis(2-chloroethyl)ether	111-44-4	< 333	< 8.96	
Bis(2-chloroisopropyl)ether	108-60-1	< 333	< 7.6	
Bis(2-ethylhexyl)phthalate	117-81-7	< 333	< 12.0	
Carbazole	86-74-8	< 333	< 5.24	
Dibenzofuran	132-64-9	< 333	< 5.18	
Diethyl phthalate	84-66-2	< 333	< 6.91	
Dimethyl phthalate	131-11-3	< 333	< 5.4	
Di-n-butyl phthalate	84-74-2	< 333	< 10.9	
Di-n-octyl phthalate	117-84-0	< 333	< 9.07	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Hexachloro-1,3-butadiene	87-68-3	< 333	< 10.0	
Hexachlorobenzene	118-74-1	< 333	< 8.56	
Hexachloroethane	67-72-1	< 333	< 13.4	
Isophorone	78-59-1	< 333	< 5.22	
Nitrobenzene	98-95-3	< 333	< 6.95	
n-Nitrosodimethylamine	62-75-9	< 333	< 64.7	
n-Nitrosodi-n-propylamine	621-64-7	< 333	< 9.06	
n-Nitrosodiphenylamine	86-30-6	< 333	< 5.94	
Pentachlorophenol	87-86-5	< 333	< 48.0	
Phenol	108-95-2	< 333	< 6.95	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	333	181.61	54.5	39.8 - 100	
2,4,5-Trichlorophenol	1	333	226.36	68	43.3 - 110	
2,4,6-Trichlorophenol	1	333	221.65	66.6	44.4 - 108	
2,4-Dichlorophenol	1	333	209.00	62.8	46.2 - 109	
2,4-Dimethylphenol	1	333	212.49	63.8	42.2 - 110	
2,4-Dinitrophenol	1	333	220.52	66.2	10 - 105	
2,4-Dinitrotoluene	1	333	213.72	64.2	53 - 112	
2,6-Dinitrotoluene	1	333	213.90	64.2	51.6 - 110	
2-Chloronaphthalene	1	333	202.48	60.8	47.1 - 105	
2-Chlorophenol	1	333	182.70	54.9	40.8 - 103	
2-Methylphenol	1	333	175.57	52.7	42.4 - 100	
2-Nitroaniline	1	333	213.62	64.2	53.8 - 107	
2-Nitrophenol	1	333	215.52	64.7	44.2 - 113	
3&4-Methyl Phenol	1	333	209.55	62.9	50.5 - 115	
3,3-Dichlorobenzidine	1	333	156.50	47	21 - 101	
3-Nitroaniline	1	333	195.41	58.7	34.7 - 103	
4,6-Dinitro-2-methylphenol	1	333	244.39	73.4	23.1 - 119	
4-Bromophenyl-phenylether	1	333	202.14	60.7	51.4 - 110	
4-Chloro-3-methylphenol	1	333	213.99	64.3	51.1 - 113	
4-Chloroaniline	1	333	175.20	52.6	24.5 - 101	
4-Chlorophenyl-phenylether	1	333	197.08	59.2	48.1 - 108	
4-Nitroaniline	1	333	201.13	60.4	38.6 - 133	
4-Nitrophenol	1	333	216.58	65	34.8 - 109	
Azobenzene	1	333	171.12	51.4	46.4 - 109	
Benzoic Acid	1	333	154.20	46.3	0 - 82	
Benzyl Alcohol	1	333	193.92	58.2	49.1 - 105	
Benzylbutyl phthalate	1	333	187.34	56.3	47.5 - 115	
Bis(2-chlorethoxy)methane	1	333	173.56	52.1	44.9 - 108	
Bis(2-chloroethyl)ether	1	333	151.16	45.4	32.5 - 112	
Bis(2-chloroisopropyl)ether	1	333	175.54	52.7	40.4 - 99	
Bis(2-ethylhexyl)phthalate	1	333	192.22	57.7	48.1 - 116	
Carbazole	1	333	199.62	59.9	52.4 - 102	
Dibenzofuran	1	333	200.77	60.3	48.6 - 104	
Diethyl phthalate	1	333	209.62	62.9	52 - 112	
Dimethyl phthalate	1	333	211.65	63.6	51.4 - 108	
Di-n-butyl phthalate	1	333	209.22	62.8	49.7 - 113	

Parameters in bold text are reported in this SDG

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Di-n-octyl phthalate	1	333	183.74	55.2	49.6 - 112	
Hexachloro-1,3-butadiene	1	333	197.74	59.4	41.5 - 112	
Hexachlorobenzene	1	333	202.82	60.9	43.2 - 104	
Hexachloroethane	1	333	180.80	54.3	36.2 - 103	
Isophorone	1	333	204.62	61.4	28.8 - 104	
Nitrobenzene	1	333	185.62	55.7	40.7 - 109	
n-Nitrosodimethylamine	1	333	136.37	41	18.1 - 122	
n-Nitrosodi-n-propylamine	1	333	167.27	50.2	43.3 - 109	
n-Nitrosodiphenylamine	1	333	196.96	59.1	48.8 - 107	
Pentachlorophenol	1	333	218.27	65.5	16.2 - 102	
Phenol	1	333	187.08	56.2	41.5 - 106	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	333	205.38	61.7	39.8 - 100	
2,4,5-Trichlorophenol	1	333	245.80	73.8	43.3 - 110	
2,4,6-Trichlorophenol	1	333	252.03	75.7	44.4 - 108	
2,4-Dichlorophenol	1	333	237.51	71.3	46.2 - 109	
2,4-Dimethylphenol	1	333	241.77	72.6	42.2 - 110	
2,4-Dinitrophenol	1	333	227.96	68.5	10 - 105	
2,4-Dinitrotoluene	1	333	238.78	71.7	53 - 112	
2,6-Dinitrotoluene	1	333	234.29	70.4	51.6 - 110	
2-Chloronaphthalene	1	333	225.49	67.7	47.1 - 105	
2-Chlorophenol	1	333	203.82	61.2	40.8 - 103	
2-Methylphenol	1	333	191.19	57.4	42.4 - 100	
2-Nitroaniline	1	333	236.83	71.1	53.8 - 107	
2-Nitrophenol	1	333	241.19	72.4	44.2 - 113	
3&4-Methyl Phenol	1	333	228.84	68.7	50.5 - 115	
3,3-Dichlorobenzidine	1	333	190.86	57.3	21 - 101	
3-Nitroaniline	1	333	209.57	62.9	34.7 - 103	
4,6-Dinitro-2-methylphenol	1	333	258.77	77.7	23.1 - 119	
4-Bromophenyl-phenylether	1	333	218.91	65.7	51.4 - 110	
4-Chloro-3-methylphenol	1	333	236.77	71.1	51.1 - 113	
4-Chloroaniline	1	333	193.08	58	24.5 - 101	
4-Chlorophenyl-phenylether	1	333	222.12	66.7	48.1 - 108	
4-Nitroaniline	1	333	233.48	70.1	38.6 - 133	
4-Nitrophenol	1	333	234.16	70.3	34.8 - 109	
Azobenzene	1	333	191.92	57.6	46.4 - 109	
Benzoic Acid	1	333	160.30	48.1	0 - 82	
Benzyl Alcohol	1	333	216.73	65.1	49.1 - 105	
Benzylbutyl phthalate	1	333	229.10	68.8	47.5 - 115	
Bis(2-chlorethoxy)methane	1	333	194.93	58.5	44.9 - 108	
Bis(2-chloroethyl)ether	1	333	167.65	50.3	32.5 - 112	
Bis(2-chloroisopropyl)ether	1	333	193.06	58	40.4 - 99	
Bis(2-ethylhexyl)phthalate	1	333	231.80	69.6	48.1 - 116	
Carbazole	1	333	220.74	66.3	52.4 - 102	
Dibenzofuran	1	333	224.88	67.5	48.6 - 104	
Diethyl phthalate	1	333	233.95	70.3	52 - 112	
Dimethyl phthalate	1	333	230.21	69.1	51.4 - 108	
Di-n-butyl phthalate	1	333	228.79	68.7	49.7 - 113	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Di-n-octyl phthalate	1	333	228.74	68.7	49.6 - 112	
Hexachloro-1,3-butadiene	1	333	217.35	65.3	41.5 - 112	
Hexachlorobenzene	1	333	220.67	66.3	43.2 - 104	
Hexachloroethane	1	333	195.89	58.8	36.2 - 103	
Isophorone	1	333	229.07	68.8	28.8 - 104	
Nitrobenzene	1	333	206.38	62	40.7 - 109	
n-Nitrosodimethylamine	1	333	150.22	45.1	18.1 - 122	
n-Nitrosodi-n-propylamine	1	333	187.35	56.3	43.3 - 109	
n-Nitrosodiphenylamine	1	333	218.50	65.6	48.8 - 107	
Pentachlorophenol	1	333	235.37	70.7	16.2 - 102	
Phenol	1	333	200.94	60.3	41.5 - 106	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

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	333	181.61	54.5	205.38	61.7	39.8 - 100		12.3	20	
2,4,5-Trichlorophenol	1	333	226.36	68	245.80	73.8	43.3 - 110		8.23	20	
2,4,6-Trichlorophenol	1	333	221.65	66.6	252.03	75.7	44.4 - 108		12.8	20	
2,4-Dichlorophenol	1	333	209.00	62.8	237.51	71.3	46.2 - 109		12.8	20	
2,4-Dimethylphenol	1	333	212.49	63.8	241.77	72.6	42.2 - 110		12.9	20	
2,4-Dinitrophenol	1	333	220.52	66.2	227.96	68.5	10 - 105		3.32	36.5	
2,4-Dinitrotoluene	1	333	213.72	64.2	238.78	71.7	53 - 112		11.1	20	
2,6-Dinitrotoluene	1	333	213.90	64.2	234.29	70.4	51.6 - 110		9.1	20	
2-Chloronaphthalene	1	333	202.48	60.8	225.49	67.7	47.1 - 105		10.8	20	
2-Chlorophenol	1	333	182.70	54.9	203.82	61.2	40.8 - 103		10.9	20	
2-Methylphenol	1	333	175.57	52.7	191.19	57.4	42.4 - 100		8.52	20	
2-Nitroaniline	1	333	213.62	64.2	236.83	71.1	53.8 - 107		10.3	20	
2-Nitrophenol	1	333	215.52	64.7	241.19	72.4	44.2 - 113		11.2	20.9	
3&4-Methyl Phenol	1	333	209.55	62.9	228.84	68.7	50.5 - 115		8.8	20	
3,3-Dichlorobenzidine	1	333	156.50	47	190.86	57.3	21 - 101		19.8	22	
3-Nitroaniline	1	333	195.41	58.7	209.57	62.9	34.7 - 103		6.99	20.7	
4,6-Dinitro-2-methylphenol	1	333	244.39	73.4	258.77	77.7	23.1 - 119		5.71	23.7	
4-Bromophenyl-phenylether	1	333	202.14	60.7	218.91	65.7	51.4 - 110		7.97	20	
4-Chloro-3-methylphenol	1	333	213.99	64.3	236.77	71.1	51.1 - 113		10.1	20	
4-Chloroaniline	1	333	175.20	52.6	193.08	58	24.5 - 101		9.71	24.5	
4-Chlorophenyl-phenylether	1	333	197.08	59.2	222.12	66.7	48.1 - 108		12	20	
4-Nitroaniline	1	333	201.13	60.4	233.48	70.1	38.6 - 133		14.9	21.7	
4-Nitrophenol	1	333	216.58	65	234.16	70.3	34.8 - 109		7.8	20	
Azobenzene	1	333	171.12	51.4	191.92	57.6	46.4 - 109		11.5	20	
Benzoic Acid	1	333	154.20	46.3	160.30	48.1	0 - 82		3.88	32.5	
Benzyl Alcohol	1	333	193.92	58.2	216.73	65.1	49.1 - 105		11.1	20	
Benzylbutyl phthalate	1	333	187.34	56.3	229.10	68.8	47.5 - 115		20.1	20	J3
Bis(2-chlorethoxy)methane	1	333	173.56	52.1	194.93	58.5	44.9 - 108		11.6	20	
Bis(2-chloroethyl)ether	1	333	151.16	45.4	167.65	50.3	32.5 - 112		10.3	26	
Bis(2-chloroisopropyl)ether	1	333	175.54	52.7	193.06	58	40.4 - 99		9.51	20.7	
Bis(2-ethylhexyl)phthalate	1	333	192.22	57.7	231.80	69.6	48.1 - 116		18.7	20.5	
Carbazole	1	333	199.62	59.9	220.74	66.3	52.4 - 102		10	21.1	
Dibenzofuran	1	333	200.77	60.3	224.88	67.5	48.6 - 104		11.3	20	
Diethyl phthalate	1	333	209.62	62.9	233.95	70.3	52 - 112		11	20	
Dimethyl phthalate	1	333	211.65	63.6	230.21	69.1	51.4 - 108		8.4	20	
Di-n-butyl phthalate	1	333	209.22	62.8	228.79	68.7	49.7 - 113		8.93	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Di-n-octyl phthalate	1	333	183.74	55.2	228.74	68.7	49.6 - 112		21.8	22	
Hexachloro-1,3-butadiene	1	333	197.74	59.4	217.35	65.3	41.5 - 112		9.45	20	
Hexachlorobenzene	1	333	202.82	60.9	220.67	66.3	43.2 - 104		8.43	20.1	
Hexachloroethane	1	333	180.80	54.3	195.89	58.8	36.2 - 103		8.01	22.7	
Isophorone	1	333	204.62	61.4	229.07	68.8	28.8 - 104		11.3	20	
Nitrobenzene	1	333	185.62	55.7	206.38	62	40.7 - 109		10.6	21	
n-Nitrosodimethylamine	1	333	136.37	41	150.22	45.1	18.1 - 122		9.66	23.5	
n-Nitrosodi-n-propylamine	1	333	167.27	50.2	187.35	56.3	43.3 - 109		11.3	20	
n-Nitrosodiphenylamine	1	333	196.96	59.1	218.50	65.6	48.8 - 107		10.4	20	
Pentachlorophenol	1	333	218.27	65.5	235.37	70.7	16.2 - 102		7.54	22.9	
Phenol	1	333	187.08	56.2	200.94	60.3	41.5 - 106		7.15	20	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Matrix Spike / Matrix Spike Duplicate

L729021-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,2,4-Trichlorobenzene	1	440	<8.76	320.05	72.7	309.86	70.3	36.5 - 114		3.24	28.4	
2,4,5-Trichlorophenol	1	440	<10.4	356.80	81	370.97	84.2	37.1 - 138		3.89	26	
2,4,6-Trichlorophenol	1	440	<7.79	366.89	83.3	370.51	84.1	33.8 - 133		0.98	28.1	
2,4-Dichlorophenol	1	440	<7.46	356.58	81	352.81	80.1	34.8 - 134		1.06	27.3	
2,4-Dimethylphenol	1	440	<47.1	361.27	82	363.01	82.4	12.3 - 149		0.48	32.3	
2,4-Dinitrophenol	1	440	<98	128.61	29.2	126.51	28.7	10 - 121		1.64	39.4	
2,4-Dinitrotoluene	1	440	<6.07	339.88	77.2	340.44	77.3	27.8 - 147		0.17	29.7	
2,6-Dinitrotoluene	1	440	<7.37	349.38	79.3	352.35	80	36.5 - 137		0.85	29.7	
2-Chloronaphthalene	1	440	<6.27	327.04	74.2	331.51	75.3	37.5 - 123		1.36	26.5	
2-Chlorophenol	1	440	<8.31	326.65	74.2	311.96	70.8	33.2 - 121		4.6	29.3	
2-Methylphenol	1	440	<9.86	297.77	67.6	290.39	65.9	30.3 - 118		2.51	25.1	
2-Nitroaniline	1	440	<7.55	343.85	78.1	351.65	79.8	42.9 - 133		2.24	24	
2-Nitrophenol	1	440	<13	360.73	81.9	348.60	79.1	29.5 - 144		3.42	29.9	
3&4-Methyl Phenol	1	440	<7.83	346.08	78.6	341.20	77.5	33.3 - 141		1.42	25.7	
3,3-Dichlorobenzidine	1	440	<79.4	285.83	64.9	271.67	61.7	10 - 129		5.08	40	
3-Nitroaniline	1	440	<8.5	309.30	70.2	313.02	71.1	22.1 - 121		1.2	33.5	
4,6-Dinitro-2-methylphenol	1	440	<124	283.11	64.3	293.34	66.6	10 - 144		3.55	32.7	
4-Bromophenyl-phenylether	1	440	<11.4	313.20	71.1	308.23	70	39 - 130		1.6	26	
4-Chloro-3-methylphenol	1	440	<4.77	340.62	77.3	341.39	77.5	27 - 154		0.23	26.6	
4-Chloroaniline	1	440	<3.52	281.30	63.9	283.37	64.3	10 - 138		0.73	28.8	
4-Chlorophenyl-phenylether	1	440	<6.27	310.53	70.5	311.07	70.6	37.9 - 123		0.17	25.9	
4-Nitroaniline	1	440	<6.39	323.49	73.4	326.74	74.2	27.6 - 149		1	33.8	
4-Nitrophenol	1	440	<52.5	307.88	69.9	313.11	71.1	20 - 133		1.68	30.2	
Azobenzene	1	440	<1.41	269.39	61.2	271.03	61.5	37 - 131		0.61	29.9	
Benzoic Acid	1	440	<123	128.69	29.2	125.07	28.4	10 - 126		2.85	27.5	
Benzyl Alcohol	1	440	<7.5	316.34	71.8	315.53	71.6	28.4 - 149		0.25	25.3	
Benzylbutyl phthalate	1	440	<10.3	310.92	70.6	286.39	65	33.4 - 128		8.22	28.5	
Bis(2-chlorethoxy)methane	1	440	<7.7	286.14	65	286.60	65.1	35 - 132		0.16	26.1	
Bis(2-chloroethyl)ether	1	440	<8.96	260.96	59.2	252.04	57.2	28.8 - 128		3.48	33.6	
Bis(2-chloroisopropyl)ether	1	440	<7.6	303.31	68.9	290.35	65.9	31.8 - 118		4.37	31.7	
Bis(2-ethylhexyl)phthalate	1	440	<12	311.47	69.9	282.26	63.3	21.8 - 141		9.84	35.2	
Carbazole	1	440	<5.24	319.49	72.5	322.00	73.1	43.7 - 121		0.78	26.4	
Dibenzofuran	1	440	<5.18	326.07	74	326.90	74.2	38.8 - 122		0.25	24.6	
Diethyl phthalate	1	440	<6.91	332.03	75.4	332.54	75.5	39.4 - 136		0.15	25.5	
Dimethyl phthalate	1	440	<5.4	335.15	76.1	345.00	78.3	35.8 - 137		2.9	25.4	
Di-n-butyl phthalate	1	440	<10.9	322.40	73.2	316.67	71.9	32.2 - 133		1.79	25.9	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Matrix Spike / Matrix Spike Duplicate

L729021-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Di-n-octyl phthalate	1	440	<9.07	308.18	70	284.61	64.6	28.5 - 128		7.95	32.5	
Hexachloro-1,3-butadiene	1	440	<10	327.13	74.3	321.95	73.1	36.5 - 125		1.59	29.7	
Hexachlorobenzene	1	440	<8.56	315.03	71.5	302.98	68.8	34.4 - 116		3.9	25.4	
Hexachloroethane	1	440	<13.4	316.44	71.8	300.23	68.2	11.3 - 143		5.26	31.9	
Isophorone	1	440	<5.22	332.40	75.5	331.55	75.3	25.7 - 116		0.26	27.7	
Nitrobenzene	1	440	<6.95	317.95	72.2	307.94	69.9	30.9 - 134		3.2	27.8	
n-Nitrosodimethylamine	1	440	<64.7	231.74	52.6	229.24	52	19.2 - 127		1.08	32	
n-Nitrosodi-n-propylamine	1	440	<9.06	272.40	61.8	273.83	62.2	33 - 134		0.53	28.2	
n-Nitrosodiphenylamine	1	440	<5.94	314.31	71.4	311.52	70.7	26.8 - 133		0.89	25.9	
Pentachlorophenol	1	440	<48	329.69	74.8	323.73	73.5	10 - 139		1.82	28.3	
Phenol	1	440	<6.95	308.33	70	301.73	68.5	25.1 - 130		2.16	29.6	

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Internal Standard Response and Retention Time Summary

File ID: 1027_02
Analyzed: 10/27/14 111700

	DCB		ACE		CHR		NAP	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	127684	5.07	346263	8.19	719581	12.66	523043	6.32
Upper Limit	255000	5.57	693000	8.69	1440000	13.16	1050000	6.82
Lower Limit	63800	4.57	173000	7.69	360000	12.16	262000	5.82
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729026-01	150273	5.07	408872	8.18	882350	12.66	637596	6.32
L729026-02	152754	5.07	411018	8.18	922564	12.66	636370	6.32
L729026-03	156997	5.07	431496	8.18	965074	12.66	663235	6.32
L729026-05	144528	5.07	384248	8.18	838492	12.66	601182	6.32
L729026-06	163024	5.07	425868	8.18	931749	12.66	666960	6.32
MSD WG750215	158151	5.07	425494	8.18	936828	12.67	662095	6.32
MS WG750215	153430	5.07	428742	8.18	852113	12.66	649703	6.32
LCSD WG750215	175023	5.07	472655	8.19	962292	12.67	721781	6.32
LCS WG750215	161729	5.08	435618	8.20	948121	12.67	676307	6.33
BLANK WG750215	158551	5.07	430013	8.18	890039	12.66	662988	6.32

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Internal Standard Response and Retention Time Summary

File ID: 1027_02
Analyzed: 10/27/14 111700

	DCB		PER		PHEN	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	127684	5.07	773668	14.10	591852	9.79
Upper Limit	255000	5.57	1550000	14.60	1180000	10.29
Lower Limit	63800	4.57	387000	13.60	296000	9.29
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729026-01	150273	5.07	985557	14.10	717788	9.79
L729026-02	152754	5.07	1000053	14.10	724134	9.79
L729026-03	156997	5.07	1055027	14.10	768898	9.79
L729026-05	144528	5.07	967342	14.10	682103	9.79
L729026-06	163024	5.07	1069628	14.10	760889	9.79
MSD WG750215	158151	5.07	1032979	14.10	752723	9.79
MS WG750215	153430	5.07	976132	14.10	738251	9.79
LCSD WG750215	175023	5.07	1089363	14.10	835995	9.79
LCS WG750215	161729	5.08	1013044	14.11	750008	9.81
BLANK WG750215	158551	5.07	990532	14.10	750226	9.79

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Surrogate Summary

			TBP		FBP		2FP		NBZ	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729026-01	BNAMS4	1027_18	0.460	69.1	0.212	63.6	0.393	59.1	0.180	54.1
L729026-02	BNAMS4	1027_19	0.489	73.4	0.225	67.5	0.403	60.5	0.198	59.4
L729026-03	BNAMS4	1027_20	0.424	63.7	0.198	59.4	0.378	56.8	0.177	53.0
L729026-05	BNAMS4	1027_21	0.456	68.5	0.218	65.5	0.398	59.8	0.189	56.8
L729026-06	BNAMS4	1027_22	0.451	67.7	0.219	65.6	0.389	58.3	0.189	56.8
MSD WG750215	BNAMS4	1027_10-2	0.510	76.6	0.227	68.3	0.453	67.9	0.216	65.0
LCS WG750215	BNAMS4	1027_04-2	0.423	63.5	0.199	59.8	0.352	52.8	0.176	52.8
LCSD WG750215	BNAMS4	1027_05-2	0.463	69.6	0.219	65.7	0.389	58.5	0.194	58.3
BLANK WG750215	BNAMS4	1027_06-2	0.449	67.4	0.225	67.4	0.434	65.2	0.203	61.0
MS WG750215	BNAMS4	1027_09-2	0.517	77.6	0.226	67.8	0.469	70.3	0.221	66.2

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.666 ppm	Limits: 21.6 - 142
FBP --2-FLUOROBIPHENYL	True Value: 0.333 ppm	Limits: 34.9 - 129
2FP --2-FLUOROPHENOL	True Value: 0.666 ppm	Limits: 21.10 - 116
NBZ --NITROBENZENE-D5	True Value: 0.333 ppm	Limits: 21.9 - 129
TPH --P-TERPHENYL-D14	True Value: 0.333 ppm	Limits: 21.5 - 128
PHL --PHENOL-D5	True Value: 0.666 ppm	Limits: 26.3 - 121

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	TPH ppm	TPH % Rec	PHL ppm	PHL % Rec
L729026-01	BNAMS4	1027_18	0.195	58.6	0.387	58.1
L729026-02	BNAMS4	1027_19	0.196	58.9	0.404	60.6
L729026-03	BNAMS4	1027_20	0.170	51.0	0.367	55.2
L729026-05	BNAMS4	1027_21	0.190	57.0	0.386	58.0
L729026-06	BNAMS4	1027_22	0.192	57.7	0.381	57.1
MSD WG750215	BNAMS4	1027_10-2	0.170	51.0	0.435	65.3
LCS WG750215	BNAMS4	1027_04-2	0.170	51.0	0.356	53.4
LCSD WG750215	BNAMS4	1027_05-2	0.208	62.5	0.399	59.9
BLANK WG750215	BNAMS4	1027_06-2	0.212	63.6	0.423	63.5
MS WG750215	BNAMS4	1027_09-2	0.185	55.6	0.454	68.1

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.666 ppm	Limits: 21.6 - 142
FBP --2-FLUOROBIPHENYL	True Value: 0.333 ppm	Limits: 34.9 - 129
2FP --2-FLUOROPHENOL	True Value: 0.666 ppm	Limits: 21.10 - 116
NBZ --NITROBENZENE-D5	True Value: 0.333 ppm	Limits: 21.9 - 129
TPH --P-TERPHENYL-D14	True Value: 0.333 ppm	Limits: 21.5 - 128
PHL --PHENOL-D5	True Value: 0.666 ppm	Limits: 26.3 - 121

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(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750215**
Analysis Date:	10/27/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Instrument Performance Summary

FileID:1027_01.D Date:10/27/2014 Time: 10:55 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	38.6
68	Less than 2% of mass 69	0.0
69	Less than 100% of mass 198	40.3
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	57.9
197	Less than 1% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	24.5
365	1 - 100% of mass 198	3.3
441	Present, but less than mass 443	80.3
442	40 - 100% of mass 198	59.4
443	17 - 23% of mass 442	19.4

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG750215	LCS WG750215	1027_04.D	10/27/2014	1:49 PM
LCSD WG750215	LCSD WG750215	1027_05.D	10/27/2014	2:11 PM
Blank WG750215	Blank WG750215	1027_06.D	10/27/2014	2:33 PM
MS WG750215	MS WG750215	1027_09.D	10/27/2014	3:39 PM
MSD WG750215	MSD WG750215	1027_10.D	10/27/2014	4:01 PM
TU503-SB01-DS01	L729026-01	1027_18.D	10/27/2014	6:56 PM
TU503-SB01-NS01	L729026-02	1027_19.D	10/27/2014	7:18 PM
TU503-SB01-NS02	L729026-03	1027_20.D	10/27/2014	7:39 PM
TU503-SB05-NS01	L729026-05	1027_21.D	10/27/2014	8:01 PM
TU503-SB05-NS02	L729026-06	1027_22.D	10/27/2014	8:23 PM

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS4
Method Name : S804J16N.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		2.228	2.214	2.227	2.236	2.257	2.270	2.295	2.258	2.248075	1.20
N-Nitrosodimethylamine		1.132	1.187	1.103	1.134	1.127	1.148	1.165	1.138	1.141807	2.22
2-Fluorophenol	1.398	1.417	1.381	1.399	1.411	1.411	1.417	1.437	1.420	1.410171	1.13
Aniline	0.887	0.892	0.849	0.853	0.829	0.844	0.842	0.842	0.828	0.851797	2.68
bis(2-Chloroethyl)ether	1.191	1.246	1.164	1.189	1.176	1.192	1.167	1.169	1.139	1.181458	2.48
Phenol-d5	1.725	1.721	1.694	1.710	1.714	1.730	1.728	1.738	1.713	1.719207	0.77
Phenol	1.811	1.807	1.750	1.780	1.778	1.774	1.759	1.766	1.730	1.772807	1.44
Benzaldehyde										0.795692	14.13
2-Chlorophenol	1.512	1.546	1.528	1.562	1.555	1.551	1.554	1.557	1.528	1.543597	1.10
n-Decane	0.981	1.089	0.910	0.931	0.883	0.884	0.874	0.868	0.839	0.917693	8.32
1,3-Dichlorobenzene	1.742	1.827	1.695	1.685	1.712	1.697	1.686	1.681	1.641	1.707399	3.06
1,4-Dichlorobenzene	1.812	1.860	1.744	1.739	1.746	1.724	1.698	1.706	1.665	1.743632	3.40
Benzyl Alcohol	1.462	1.326	1.247	1.270	1.267	1.284	1.279	1.275	1.241	1.294708	5.21
1,2-Dichlorobenzene	1.596	1.805	1.694	1.685	1.685	1.657	1.641	1.645	1.612	1.668855	3.66
bis(2-Chloroisopropyl)ether	0.574	0.506	0.512	0.500	0.493	0.485	0.481	0.479	0.467	0.499842	6.29
2-Methylphenol	1.392	1.467	1.390	1.395	1.395	1.403	1.388	1.382	1.350	1.395623	2.20
Hexachloroethane	0.719	0.786	0.746	0.753	0.750	0.752	0.748	0.753	0.737	0.749248	2.35
N-Nitrosodi-n-propylamine	1.397	1.247	1.127	1.160	1.125	1.140	1.139	1.122	1.098	1.172866	8.03
3&4-Methyl phenol	1.578	1.694	1.587	1.618	1.599	1.615	1.579	1.594	1.554	1.602019	2.46
Acetophenone										1.986257	3.28
Nitrobenzene-d5	0.412	0.392	0.383	0.383	0.384	0.375	0.386	0.384	0.386	0.387149	2.67
Nitrobenzene	0.363	0.391	0.387	0.393	0.387	0.373	0.382	0.380	0.382	0.381908	2.46
Isophorone	0.702	0.692	0.680	0.666	0.672	0.646	0.657	0.650	0.660	0.669338	2.84
2-Nitrophenol	0.169	0.172	0.180	0.189	0.192	0.195	0.203	0.202	0.205	0.189632	7.10
2,4-Dimethylphenol	0.395	0.368	0.369	0.352	0.331	0.359	0.352	0.347	0.351	0.358235	5.04
bis(2-Chlorethoxy)methane	0.462	0.454	0.444	0.443	0.438	0.429	0.432	0.425	0.429	0.439422	2.80
2,4-Dichlorophenol	0.286	0.300	0.298	0.304	0.309	0.298	0.306	0.302	0.304	0.300699	2.24
Benzoic Acid										0.151698	42.89

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS4
Method Name : S804J16N.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	0.346	0.342	0.342	0.344	0.339	0.325	0.329	0.327	0.327	0.335694	2.51
Naphthalene	1.428	1.237	1.180	1.160	1.140	1.105	1.114	1.092	1.090	1.171698	9.14
4-Chloroaniline	0.170	0.146	0.144	0.144	0.145	0.142	0.142	0.142	0.141	0.146071	6.21
Hexachloro-1,3-butadiene	0.200	0.192	0.192	0.188	0.190	0.181	0.183	0.180	0.182	0.187371	3.47
Caprolactam										0.104014	7.45
4-Chloro-3-methylphenol	0.372	0.330	0.345	0.335	0.342	0.339	0.343	0.332	0.342	0.342260	3.59
2-Methylnaphthalene	0.854	0.841	0.835	0.817	0.798	0.792	0.800	0.780	0.788	0.811601	3.21
1-Methylnaphthalene	0.784	0.782	0.759	0.764	0.749	0.738	0.748	0.728	0.737	0.754239	2.61
1,2,4,5-Tetrachlorobenzene										0.314824	3.96
Hexachlorocyclopentadiene			0.207	0.249	0.266	0.292	0.306	0.320	0.329	0.281437	15.42
2,4,6-Trichlorophenol		0.285	0.284	0.308	0.328	0.324	0.342	0.356	0.364	0.323592	9.32
2,4,5-Trichlorophenol		0.334	0.347	0.351	0.367	0.359	0.374	0.377	0.384	0.361584	4.65
2-Fluorobiphenyl	1.407	1.421	1.366	1.369	1.365	1.271	1.312	1.325	1.332	1.352083	3.48
Biphenyl	1.541	1.549	1.511	1.510	1.494	1.404	1.445	1.463	1.495	1.490241	3.11
2-Chloronaphthalene	1.208	1.228	1.218	1.207	1.200	1.123	1.162	1.180	1.189	1.190576	2.71
2-Nitroaniline	0.379	0.366	0.371	0.384	0.408	0.393	0.409	0.419	0.427	0.394946	5.53
Acenaphthylene	1.991	2.050	2.003	1.988	1.989	1.867	1.898	1.923	1.940	1.960811	2.96
Dimethyl phthalate	1.421	1.406	1.353	1.337	1.313	1.256	1.315	1.340	1.364	1.344966	3.71
2,6-Dinitrotoluene	0.247	0.293	0.298	0.314	0.312	0.304	0.313	0.317	0.324	0.302416	7.53
3-Nitroaniline		0.328	0.331	0.347	0.354	0.352	0.368	0.369	0.374	0.352789	4.86
Acenaphthene	1.263	1.305	1.253	1.255	1.255	1.186	1.210	1.225	1.237	1.243239	2.75
2,4-Dinitrophenol		0.024	0.040	0.074	0.090	0.127	0.148	0.151		0.093552	54.46
Dibenzofuran	1.789	1.819	1.771	1.752	1.750	1.639	1.667	1.670	1.698	1.728445	3.59
2,4-Dinitrotoluene		0.352	0.358	0.388	0.399	0.417	0.437	0.440	0.448	0.404777	9.12
2,3,4,6-Tetrachlorophenol										0.218549	13.17
4-Nitrophenol			0.184	0.228	0.242	0.273	0.288	0.281	0.292	0.255411	15.53
Fluorene	1.484	1.497	1.461	1.445	1.430	1.342	1.382	1.392	1.419	1.428026	3.52
4-Chlorophenyl-phenylether	0.632	0.668	0.640	0.634	0.628	0.587	0.597	0.598	0.613	0.621966	4.08
Diethyl phthalate	1.567	1.459	1.411	1.399	1.408	1.422	1.456	1.492	1.524	1.459810	3.97

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Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS4
Method Name : S804J16N.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	0.298	0.325	0.342	0.357	0.362	0.385	0.396	0.387	0.396	0.360866	9.44
Azobenzene	1.718	1.549	1.480	1.447	1.448	1.390	1.468	1.455	1.486	1.493501	6.31
Atrazine										0.310950	6.43
4,6-Dinitro-2-methylphenol			0.066	0.085	0.095	0.114	0.126	0.126	0.130	0.105858	23.36
N-Nitrosodiphenylamine	0.668	0.716	0.682	0.691	0.697	0.628	0.664	0.675	0.679	0.677630	3.59
2,4,6-Tribromophenol		0.082	0.081	0.090	0.095	0.090	0.096	0.097	0.096	0.090757	6.98
4-Bromophenyl-phenylether	0.213	0.218	0.207	0.214	0.214	0.191	0.203	0.204	0.206	0.207510	3.99
Hexachlorobenzene	0.249	0.249	0.238	0.235	0.237	0.217	0.228	0.226	0.227	0.234009	4.63
n-octadecane		0.154	0.147	0.149	0.149	0.130	0.133	0.139	0.137	0.142223	6.07
Pentachlorophenol			0.058	0.083	0.101	0.110	0.124	0.125	0.129	0.104303	24.88
Phenanthrene	1.224	1.218	1.175	1.186	1.181	1.111	1.182	1.190	1.190	1.184194	2.71
Anthracene	1.202	1.266	1.203	1.215	1.235	1.162	1.228	1.198	1.201	1.212236	2.40
Carbazole	1.177	1.205	1.173	1.176	1.214	1.138	1.208	1.136	1.188	1.179606	2.39
Di-n-butyl phthalate	1.607	1.606	1.557	1.619	1.673	1.573	1.646	1.584	1.581	1.605175	2.29
2-nitrodiphenylamine										0.273249	14.12
Fluoranthene	1.414	1.388	1.361	1.408	1.422	1.360	1.452	1.369	1.394	1.396444	2.20
Benzidine										0.633502	24.41
Pyrene	1.304	1.289	1.285	1.230	1.339	1.199	1.204	1.283	1.233	1.262762	3.82
p-Terphenyl-d14	1.014	1.001	0.993	0.949	1.028	0.927	0.915	0.974	0.935	0.970733	4.21
Benzylbutyl phthalate	0.717	0.699	0.657	0.657	0.716	0.650	0.656	0.698	0.681	0.681274	3.99
3,3-Dichlorobenzidine										0.451703	7.03
Benzo(a)anthracene	1.462	1.362	1.306	1.261	1.318	1.231	1.233	1.307	1.311	1.310123	5.42
Chrysene	1.253	1.244	1.216	1.157	1.224	1.118	1.122	1.203	1.156	1.188156	4.31
bis(2-Ethylhexyl)phthalate	1.280	1.073	1.026	0.992	1.085	0.984	0.986	1.055	1.021	1.055885	8.71
Di-n-octyl phthalate	1.911	1.829	1.834	1.815	1.991	1.780	1.764	1.872	1.695	1.832351	4.70
Benzo(b)fluoranthene	1.248	1.268	1.233	1.171	1.233	1.245	1.329	1.302	1.442	1.274600	6.05
Benzo(k)fluoranthene	1.255	1.234	1.207	1.184	1.214	1.080	1.069	1.104	1.066	1.157063	6.62
Benzo(a)pyrene	1.203	1.226	1.181	1.159	1.207	1.148	1.169	1.210	1.237	1.193219	2.56
Indeno(1,2,3-cd)pyrene	1.269	1.329	1.319	1.321	1.429	1.238	1.246	1.335	1.338	1.313944	4.43

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS4
Method Name : S804J16N.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	0.992	1.096	1.107	1.114	1.216	1.042	1.055	1.122	1.129	1.096851	5.78
Benzo(g,h,i)perylene	1.063	1.118	1.102	1.095	1.186	1.020	1.028	1.107	1.094	1.090373	4.59

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/27/2014
FileName : 1027_02.D Time : 11:17 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
n-Nitrosodimethylamine	1.1418	0.8409	26.4		
Bis(2-chloroethyl)ether	1.1815	1.0003	15.3		
Phenol	1.7728	1.6346	7.8		
2-Chlorophenol	1.5436	1.5095	2.21		
1,4-Dichlorobenzene	1.7436	1.7499	0.36		
Benzyl Alcohol	1.2947	1.2068	6.79		
Bis(2-chloroisopropyl)ether	0.4998	0.4652	6.94		
2-Methylphenol	1.3956	1.2801	8.28		
Hexachloroethane	0.7492	0.7591	1.31		
n-Nitrosodi-n-propylamine	1.1729	0.9995	14.8	>0.05	
3&4-Methyl Phenol	1.6020	0.7383	53.9		
Nitrobenzene	0.3819	0.3786	0.86		
Isophorone	0.6693	0.6418	4.12		
2-Nitrophenol	0.1896	0.2151	13.5		
2,4-Dimethylphenol	0.3582	0.3051	14.8		
Bis(2-chlorethoxy)methane	0.4394	0.4084	7.06		
2,4-Dichlorophenol	0.3007	0.3261	8.44		
1,2,4-Trichlorobenzene	0.3357	0.3523	4.94		
4-Chloroaniline	0.1461	0.1337	8.48		
Hexachloro-1,3-butadiene	0.1874	0.2105	12.4		
4-Chloro-3-methylphenol	0.3423	0.3465	1.24		
Hexachlorocyclopentadiene	0.2814	0.2339	16.9	>0.05	
2,4,6-Trichlorophenol	0.3236	0.3523	8.88		
2,4,5-Trichlorophenol	0.3616	0.3846	6.37		
2-Chloronaphthalene	1.1906	1.1726	1.51		
2-Nitroaniline	0.3949	0.3983	0.85		
Dimethyl phthalate	1.3450	1.3633	1.36		
2,6-Dinitrotoluene	0.3024	0.3168	4.77		
3-Nitroaniline	0.3528	0.3487	1.15		
Acenaphthene	1.2432	1.2239	1.56		
2,4-Dinitrophenol	0.0936	0.1394	49	>0.05	**

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/27/2014
FileName : 1027_02.D Time : 11:17 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dibenzofuran	1.7284	1.7200	0.49		
2,4-Dinitrotoluene	0.4048	0.4252	5.05		
4-Nitrophenol	0.2554	0.2645	3.57	>0.05	**
4-Chlorophenyl-phenylether	0.6220	0.6203	0.27		
Diethyl phthalate	1.4598	1.4583	0.11		
4-Nitroaniline	0.3609	0.3602	0.18		
1,2-Diphenylhydrazine	1.4935	1.2715	14.9		
4,6-Dinitro-2-methylphenol	0.1059	0.1242	17.4		**
n-Nitrosodiphenylamine	0.6776	0.6616	2.37		
4-Bromophenyl-phenylether	0.2075	0.2028	2.29		
Hexachlorobenzene	0.2340	0.2250	3.86		
Pentachlorophenol	0.1043	0.1124	7.73		**
Carbazole	1.1796	1.1862	0.56		
Di-n-butyl phthalate	1.6052	1.7058	6.27		
Fluoranthene	1.3964	1.3842	0.88		
Benzylbutyl phthalate	0.6813	0.6772	0.59		
Bis(2-ethylhexyl)phthalate	1.0559	1.0235	3.07		
Di-n-octyl phthalate	1.8324	1.8537	1.16		
Benzo(a)pyrene	1.1932	1.1760	1.44		

*** - 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: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/27/2014
FileName : 1027_03.D Time : 11:39 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Benzoic acid	0.1517	0.2005	32.1	**

*** - calibrated by linear regression*

Raw Data

BNA SS Extractions Benchsheet

Batch #: WG750215

Analyst: CBL520 **Prep Start Date/Time:** 10/25/14 19:57:01 **Prep End Date/Time:** 10/26/14 00:28:00

Na2SO4: 14I15522 Amt. Used: 10 Exp. Date:03/15/15 **MeCl2:** 14H28628 Amt. Used: 25 Exp. Date:02/28/15 **Surrogate:** 14J08667 Amt. Used: 0.50 mL Exp. Date:11/22/14

LCS/MS Spike: 14J20252 Amt. Used: 0.50 mL Exp. Date:10/31/14

Sample Number	Qualifiers	Wet Weight Extracted(g)	Soil Description	Solvent Vol. (mL)	Final Volume(mL)	Extract Color	Sample Comments
BLANK		15	Sand	25	0.5	Colorless	
LCS		15	Sand	25	0.5	Yellow	
LCSD		15	Sand	25	0.5	Yellow	
MS(L729021-02)		15	Sand	25	0.5	Yellow	
MSD(L729021-02)		15	Sand	25	0.5	Yellow	
1. L728915-01		15	Sand	25	0.5	Brown	
2. L728915-02		15	Clay	25	0.5	Yellow	
3. L729001-02		15	Mud	25	0.5	Brown	
4. L729012-01		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
5. L729012-02		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
6. L729012-04		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
7. L729012-05		15	Sand	25	0.5	Brown	EDD/QC4/DOD
8. L729012-06		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
9. L729012-07		15	Sand	25	0.5	Yellow	EDD/QC4/DOD
10. L729021-01		15	Sand	25	0.5	Yellow	EDD/QC4/DOD
11. L729021-02		15	Sand	25	0.5	Colorless	EDD/QC4/DOD - MS/MSD sample
12. L729024-01		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
13. L729024-02		15	Sand	25	0.5	Colorless	EDD/QC4/DOD

14. L729024-04		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
15. L729024-05		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
16. L729026-01		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
17. L729026-02		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
18. L729026-03		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
19. L729026-05		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
20. L729026-06		15	Sand	25	0.5	Colorless	EDD/QC4/DOD

Comments:
SYRINGE ESC25485

Reviewed By: on

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH
Released By : Allen Fuller
Date Released : 10/28/2014 11:43:41 AM
Run ID : 102714
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1027_00	INSTBLK	S804J16N						1	1	10/27/14 1024	"instrument blank"
2	1027_01	TUNE 50 PPM 14F19703	TUNEC						1	1	10/27/14 1055	"DFTPP"
3	1027_01T	TUNE 50 PPM 14F19703								1	10/27/14 1055	
4	1027_02	ICVRL SVMS 10K PPB 14G09881	S804J16N						1	1	10/27/14 1117	"8270 Primary Standard"
4	1027_02-1	ICVRL SVMS 10K PPB 14G09881	S804J16N						1	1	10/27/14 1117	"8270 Primary Standard"
4	1027_02 RL	ICVRL SVMS 10K PPB 14G09881	S804J16N						1	1	10/27/14 1117	"8270 Primary Standard"
4	1027_02 RL-1	ICVRL SVMS 10K PPB 14G09881	S804J16N						1	1	10/27/14 1117	"8270 Primary Standard"
5	1027_03	ICV TCL 10K1 PPB 14G09882	S804J16N						1	1	10/27/14 1139	"8270 TCL Standard"
5	1027_03-1	ICV TCL 10K1 PPB 14G09882	S804J16N						1	1	10/27/14 1139	"8270 TCL Standard"
6	1027_04	LCS	S804J16N	WG750215	SV8270D	SS			1	0.0333	10/27/14 1349	"SOIL 14J08667/14J20252"
6	1027_04-2	LCS	S804J16N	WG750215	SV8270	SS	URSTAZ		1	0.0333	10/27/14 1349	"SOIL 14J08667/14J20252"
7	1027_05	LCSD	S804J16N	WG750215	SV8270D	SS			1	0.0333	10/27/14 1411	"SOIL 14J08667/14J20252"
7	1027_05-2	LCSD	S804J16N	WG750215	SV8270	SS	URSTAZ		1	0.0333	10/27/14 1411	"SOIL 14J08667/14J20252"
8	1027_06	BLANK	S804J16N	WG750215	SV8270D	SS			1	0.0333	10/27/14 1433	"SOIL 14J08667/14J20252"
8	1027_06-2	BLANK	S804J16N	WG750215	SV8270	SS	URSTAZ		1	0.0333	10/27/14 1433	"SOIL 14J08667/14J20252"
9	1027_07	L729012-01	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1455	"SOIL 14J08667/14J20252"
10	1027_08	L729012-02	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1517	"SOIL 14J08667/14J20252"
11	1027_09	MS	S804J16N	WG750215	SV8270D	SS			1	0.0333	10/27/14 1539	"SOIL 14J08667/14J20252"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH

Released By : Allen Fuller
Date Released : 10/28/2014 11:43:42 AM

Run ID : 102714
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
11	1027_09-2	MS	S804J16N	WG750215	SV8270	SS	URSTAZ		1	0.0333	10/27/14 1539	"SOIL 14J08667/14J20252"
12	1027_10	MSD	S804J16N	WG750215	SV8270D	SS			1	0.0333	10/27/14 1601	"SOIL 14J08667/14J20252"
12	1027_10-2	MSD	S804J16N	WG750215	SV8270	SS	URSTAZ		1	0.0333	10/27/14 1601	"SOIL 14J08667/14J20252"
13	1027_11	L729012-04	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1623	"SOIL 14J08667/14J20252"
14	1027_12	L729012-06	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1645	"SOIL 14J08667/14J20252"
15	1027_13	L729021-02	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1707	"SOIL 14J08667/14J20252"
16	1027_14	L729024-01	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1728	"SOIL 14J08667/14J20252"
17	1027_15	L729024-02	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1750	"SOIL 14J08667/14J20252"
18	1027_16	L729024-04	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1812	"SOIL 14J08667/14J20252"
19	1027_17	L729024-05	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1834	"SOIL 14J08667/14J20252"
20	1027_18	L729026-01	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1856	"SOIL 14J08667/14J20252"
21	1027_19	L729026-02	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1918	"SOIL 14J08667/14J20252"
22	1027_20	L729026-03	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 1939	"SOIL 14J08667/14J20252"
23	1027_21	L729026-05	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 2001	"SOIL 14J08667/14J20252"
24	1027_22	L729026-06	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 2023	"SOIL 14J08667/14J20252"
25	1027_23	L728915-02	S804J16N	WG750215	SV8270D	SS	LABRNY	NY	1	0.0333	10/27/14 2045	"SOIL 14J08667/14J20252"
26	1027_24	L729021-01	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	1	0.0333	10/27/14 2107	"SOIL 14J08667/14J20252"
27	1027_25	L728915-01	S804J16N	WG750215	SV8270D	SS	LABRNY	NY	1	0.0333	10/27/14 2128	"SOIL 14J08667/14J20252"
28	1027_26	L729001-02	S804J16N	WG750215	SV8270D	SS	NORWINDAAK	AK	5	0.167	10/27/14 2150	"SOIL 14J08667/14J20252"
29	1027_27	L729012-07	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	10	0.333	10/27/14 2212	"SOIL 14J08667/14J20252"
30	1027_28	L729012-05	S804J16N	WG750215	SV8270	SS	URSTAZ	NM	10	0.333	10/27/14 2234	"SOIL 14J08667/14J20252"
31	1027_29	DNR L728963-08	S804J16N	WG750155					60	2	10/27/14 2256	"SOIL 14J08667/14J20252"
32	1027_30	DNR L729030-02	S804J16N	WG750216					50	1.67	10/27/14 2317	"SOIL 14J08667/14J20252"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH

Released By : Allen Fuller
Date Released : 10/28/2014 11:43:42 AM

Run ID : 102714
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
33	1027_31	DNR L728942-07	S804J16N	WG750398					20	0.667	10/27/14 2340	"SOIL 14J08667/14J20252"

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 01.D Vial: 1
Acq On : 27 Oct 2014 10:55 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:14 2014 Quant Results File: TUNEC.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

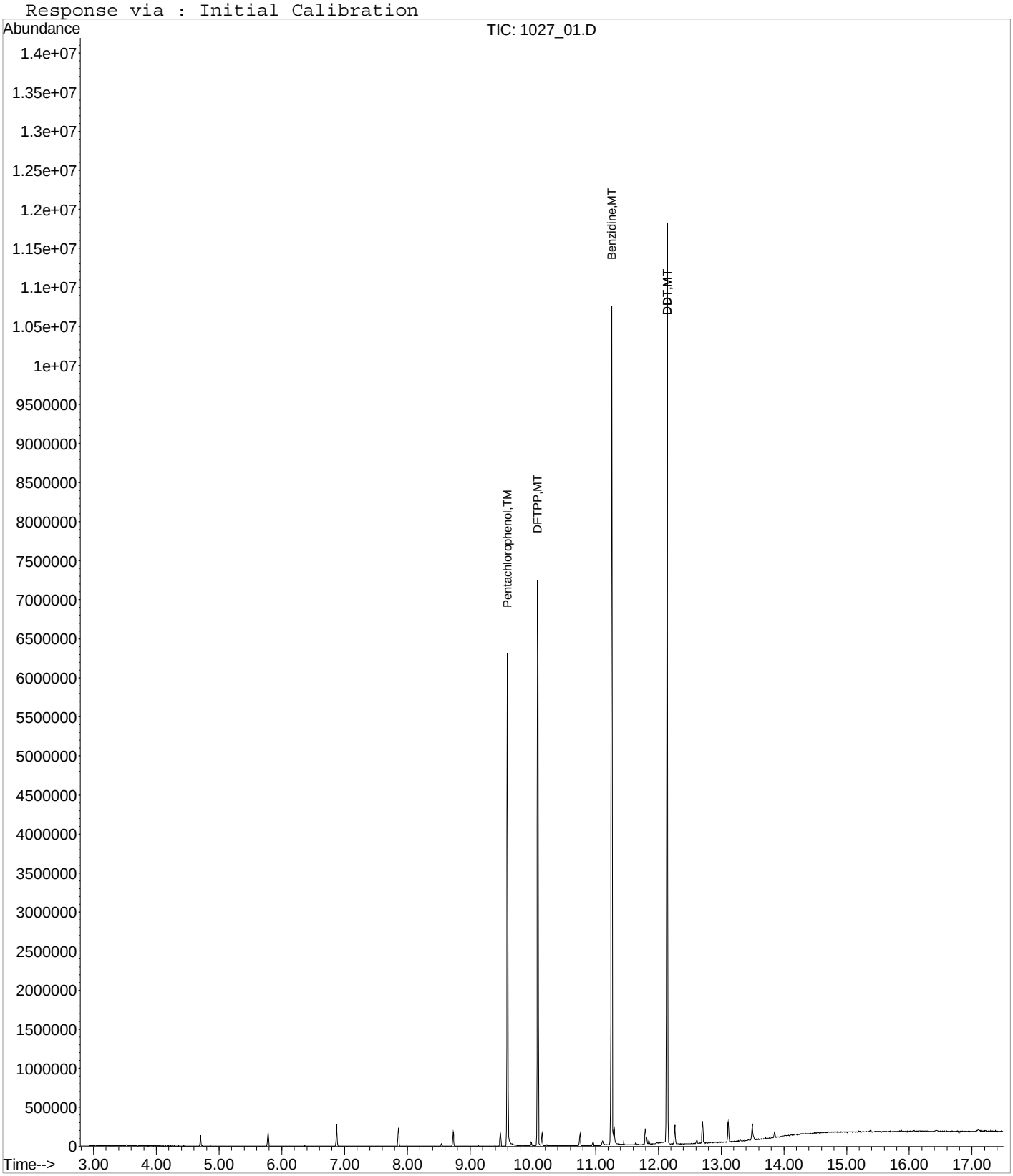
Target Compounds					Qvalue
1) Pentachlorophenol	9.59	264	401676	28.9414033 ug/mL	100
2) DFTPP	10.08	198	803406	33.6534732 ug/mL	100
3) Benzidine	11.26	184	4536709	30.8549050 ug/mL	100
4) DDT	12.14	TIC	12101797	184.7540541 ug/ml	100
5) DDT	12.14	235	2249481	167.1703495 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 01.D Vial: 1
Acq On : 27 Oct 2014 10:55 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:14 2014 Quant Results File: TUNEC.RES

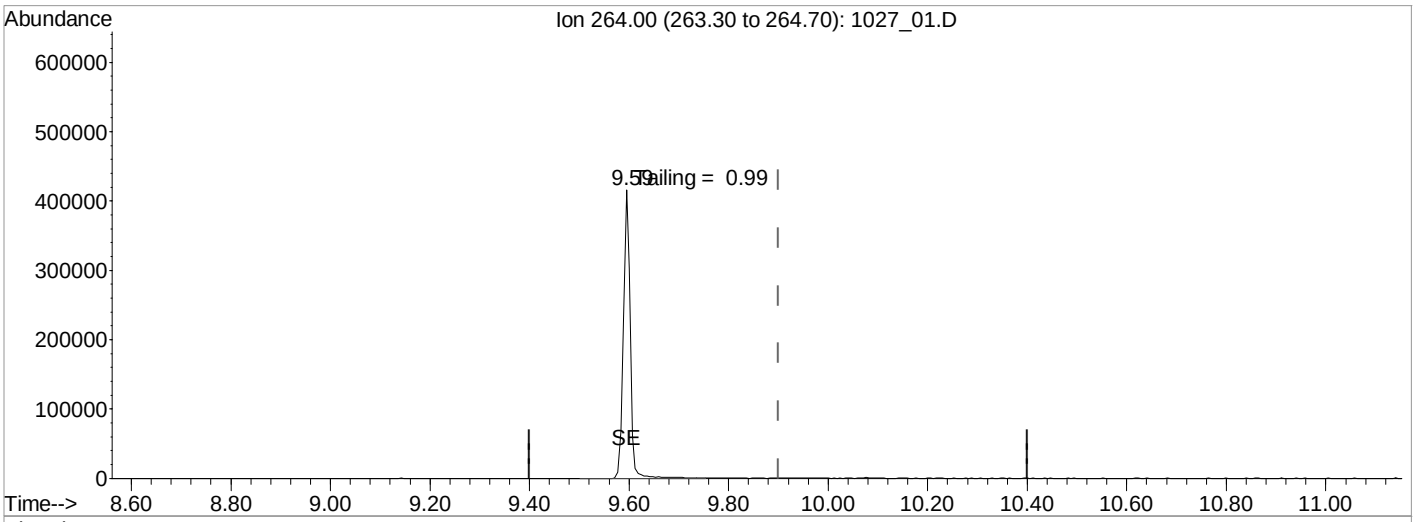
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration

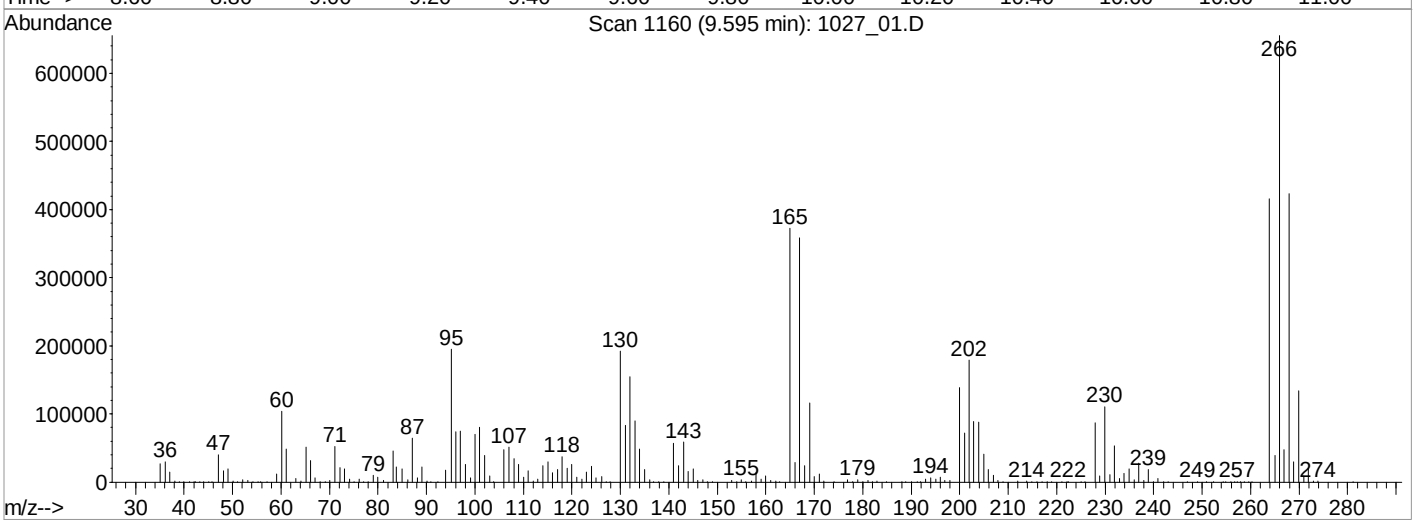


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102714\1027 01.D Vial: 1
Acq On : 27 Oct 2014 10:55 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1027_01.D

(1) Pentachlorophenol (TM)

9.59min (-0.306) 28.9414033 ug/mL

Qvalue = 100

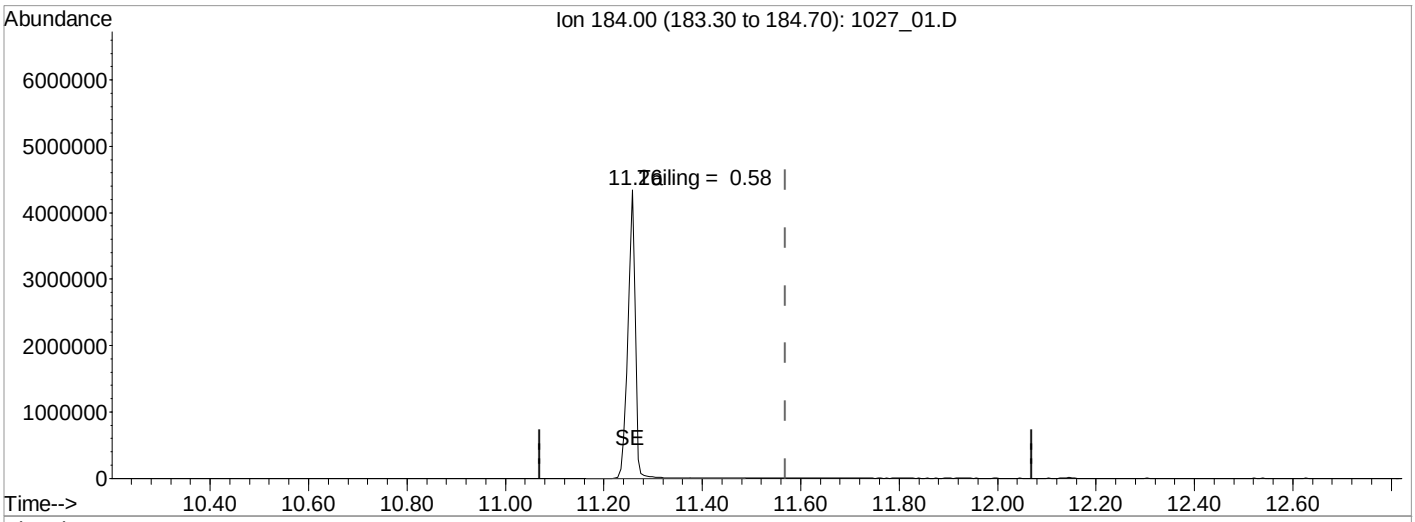
response 401676

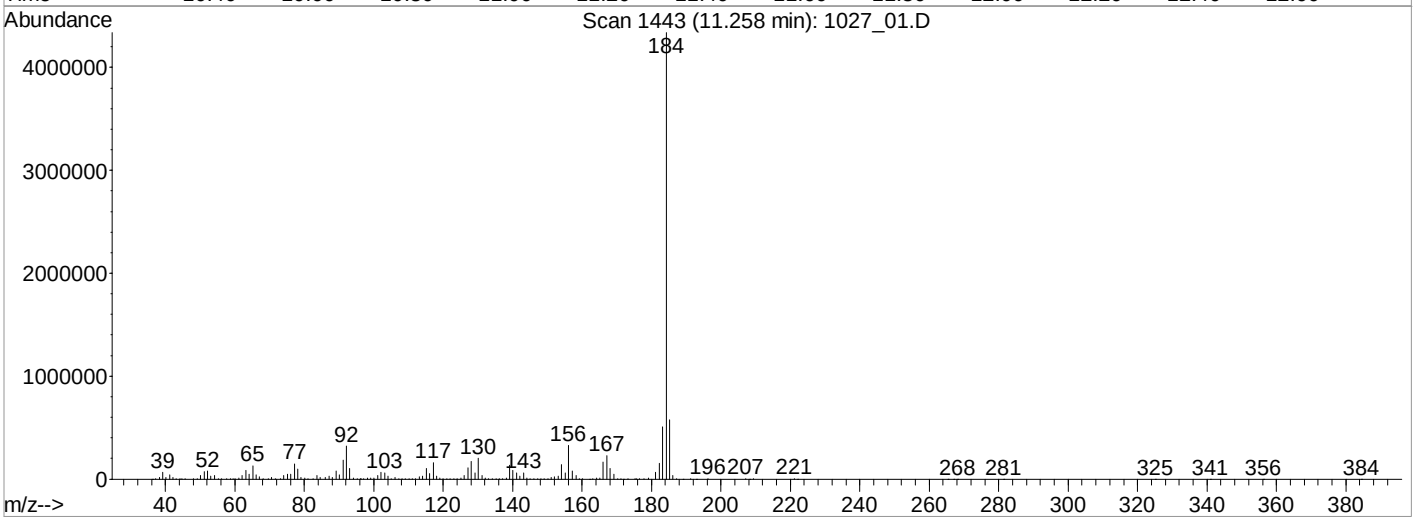
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102714\1027 01.D Vial: 1
Acq On : 27 Oct 2014 10:55 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1027_01.D

(3) Benzidine (MT)

11.26min (-0.311) 30.8549050 ug/mL

Qvalue = 100

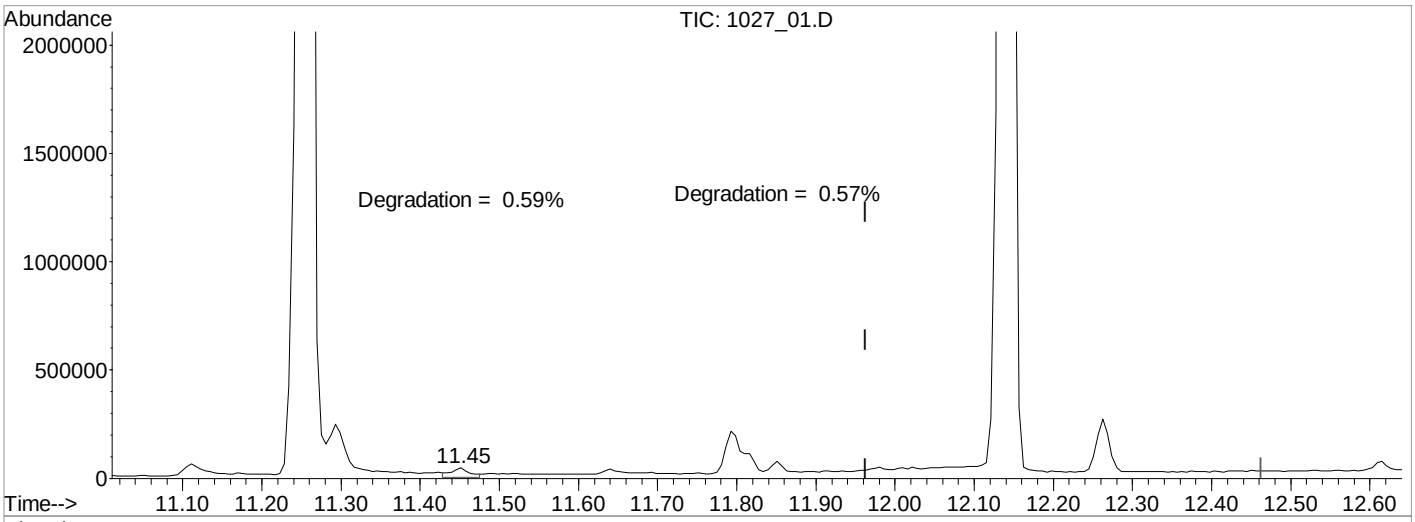
response 4536709

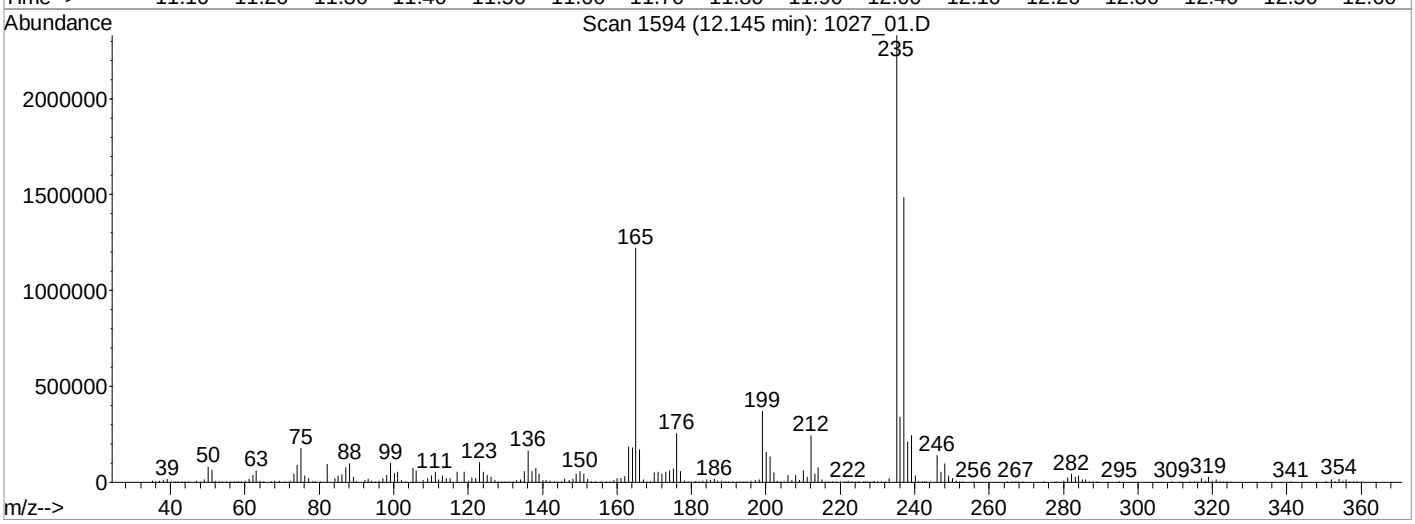
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102714\1027 01.D Vial: 1
Acq On : 27 Oct 2014 10:55 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1027_01.D

(4) DDT (MT)

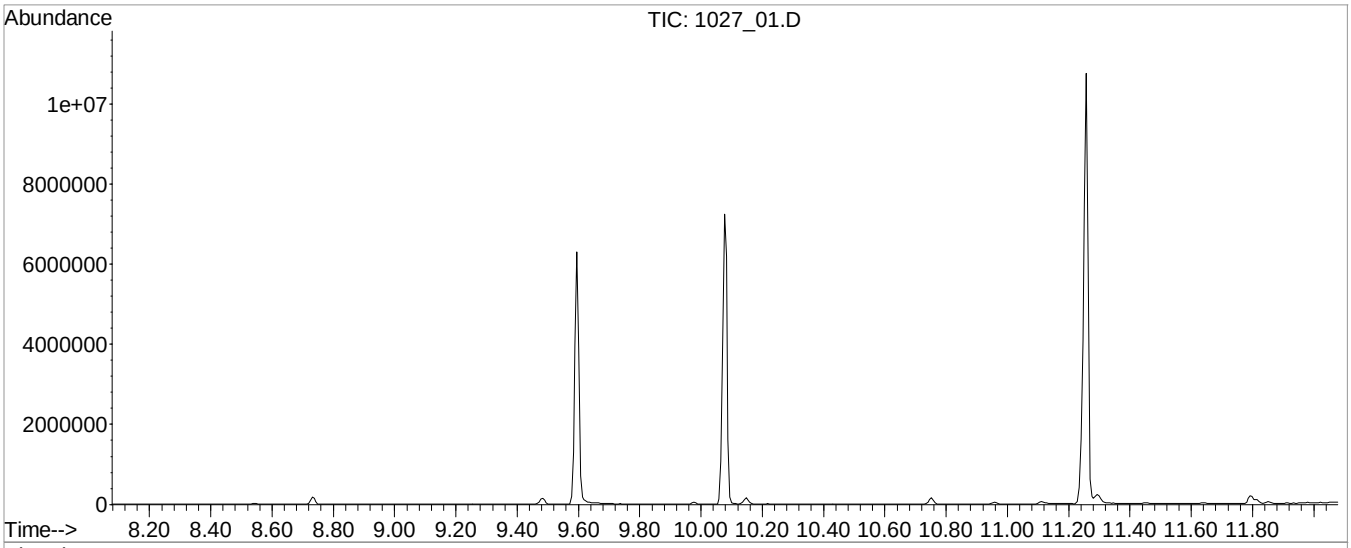
12.14min (-0.317) 184.7540541 ug/ml

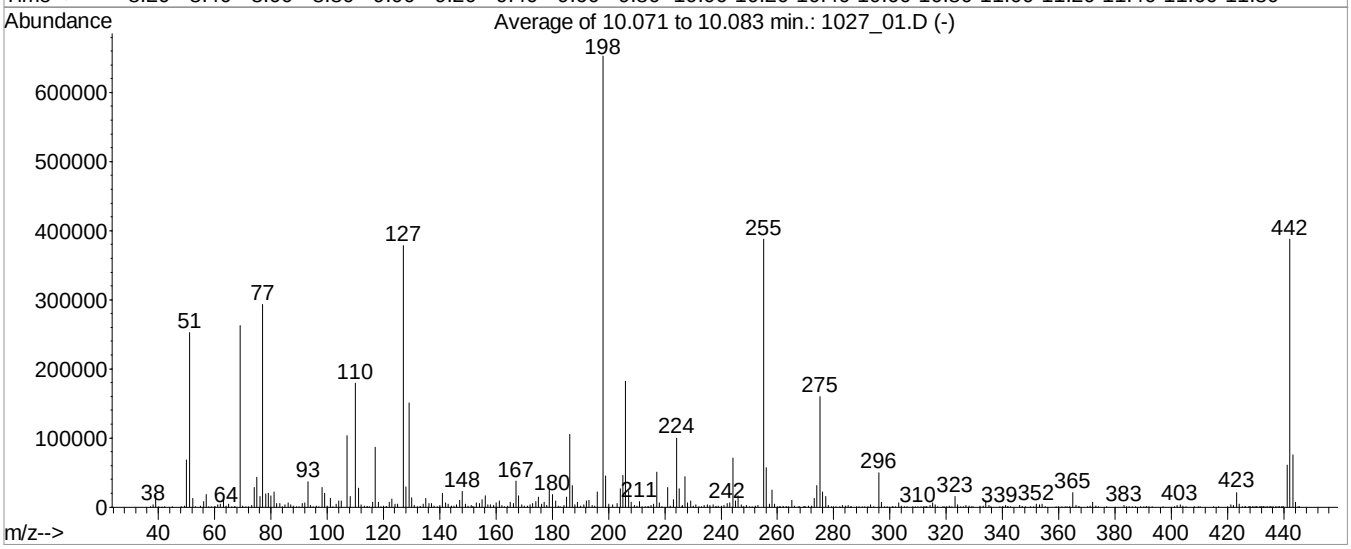
Qvalue = 100

response 12101797

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 File : C:\MSDCHEM\1\DATA\102714\1027 01.D Vial: 1
Acq On : 27 Oct 2014 10:55 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA





AutoFind: Scans 1241, 1242, 1243; Background Corrected with Scan 1235

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.6	252202	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.3	263125	PASS
70	69	0.00	2	0.5	1327	PASS
127	198	40	60	57.9	378240	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	652906	PASS
199	198	5	9	6.8	44701	PASS
275	198	10	30	24.5	159965	PASS
365	198	1	100	3.3	21286	PASS
441	443	0.01	100	80.3	60421	PASS
442	198	40	100	59.4	387882	PASS
443	442	17	23	19.4	75256	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 02.D Vial: 2
Acq On : 27 Oct 2014 11:17 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:38 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	127684	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	523043	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	346263	8000.00 ppb	0.00
64) Phenanthrene-d10	9.79	188	591852	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	719581	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	773668	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	213179	9471.6637988 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 47358.32%#		
7) Phenol-d5	4.71	99	251875	9179.3163832 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 45896.58%#		
23) Nitrobenzene-d5	5.59	82	246528	9739.5794476 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 97395.79%#		
44) 2-Fluorobiphenyl	7.46	172	592017	10116.1344396 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 101161.34%#		
67) 2,4,6-Tribromophenol	9.04	330	70229	10459.5992607 ppb	-0.01
Spiked Amount 20.000	Range 22 - 154		Recovery = 52298.00%#		
81) p-Terphenyl-d14	11.51	244	831562	9523.6918483 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 95236.92%#		

Target Compounds					Qvalue
2) Pyridine	2.98	79	242163	6749.1712284 ppb	96
3) N-Nitrosodimethylamine	2.96	42	134204	7364.2117320 ppb	87
5) Aniline	4.78	66	119052	8756.9790008 ppb	99
6) bis(2-Chloroethyl)ether	4.82	63	159656	8466.8234356 ppb	97
8) Phenol	4.72	94	260889	9220.3568805 ppb	92
9) Benzaldehyde	4.70	105	679	53.4660449 ppb #	1
10) 2-Chlorophenol	4.88	128	240916	9778.7913533 ppb	97
11) n-Decane	4.91	41	129552	8845.0504628 ppb	99
12) 1,3-Dichlorobenzene	5.02	146	273341	10030.5173711 ppb	99
13) 1,4-Dichlorobenzene	5.09	146	279297	10036.0986492 ppb	98
14) Benzyl Alcohol	5.18	79	192611	9321.0064765 ppb	95
15) 1,2-Dichlorobenzene	5.23	146	268058	10063.8402710 ppb	98
16) bis(2-Chloroisopropyl)ethe	5.32	121	74241	9306.0406142 ppb	97
17) 2-Methylphenol	5.28	108	204305	9172.0093543 ppb	99
18) Hexachloroethane	5.55	117	121154	10131.3083894 ppb	97
19) N-Nitrosodi-n-propylamine	5.43	70	159526	8521.9048743 ppb	97
20) 3&4-Methyl phenol	5.42	107	235660	9216.6201355 ppb	98
21) Acetophenone	5.43	105	2150	67.8197981 ppb #	1
24) Nitrobenzene	5.61	77	247537	9913.6584282 ppb	97
25) Isophorone	5.85	82	419594	9588.1779396 ppb	96
26) 2-Nitrophenol	5.93	139	140661	11345.2480430 ppb	90
27) 2,4-Dimethylphenol	5.96	107	199478	8516.8563053 ppb	98
28) bis(2-Chlorethoxy)methane	6.06	93	267026	9294.4607423 ppb	96
29) 2,4-Dichlorophenol	6.17	162	213199	10844.4210344 ppb	98
30) Benzoic Acid	5.96	105	6309	2661.3284741 ppb #	1
31) 1,2,4-Trichlorobenzene	6.26	180	230327	10494.3013945 ppb	98
32) Naphthalene	6.35	128	759429	9913.4336468 ppb	99
33) 4-Chloroaniline	6.39	65	87405	9152.1838416 ppb	92
34) Hexachloro-1,3-butadiene	6.47	225	137657	11236.9600294 ppb	97
35) Caprolactam	6.89	113	7288	1071.6901304 ppb #	18
36) 4-Chloro-3-methylphenol	6.89	107	226541	10123.8003491 ppb	96
37) 2-Methylnaphthalene	7.07	142	531065	10008.2381166 ppb	96
38) 1-Methylnaphthalene	7.17	142	497888	10096.6037199 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 02.D Vial: 2
Acq On : 27 Oct 2014 11:17 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:38 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

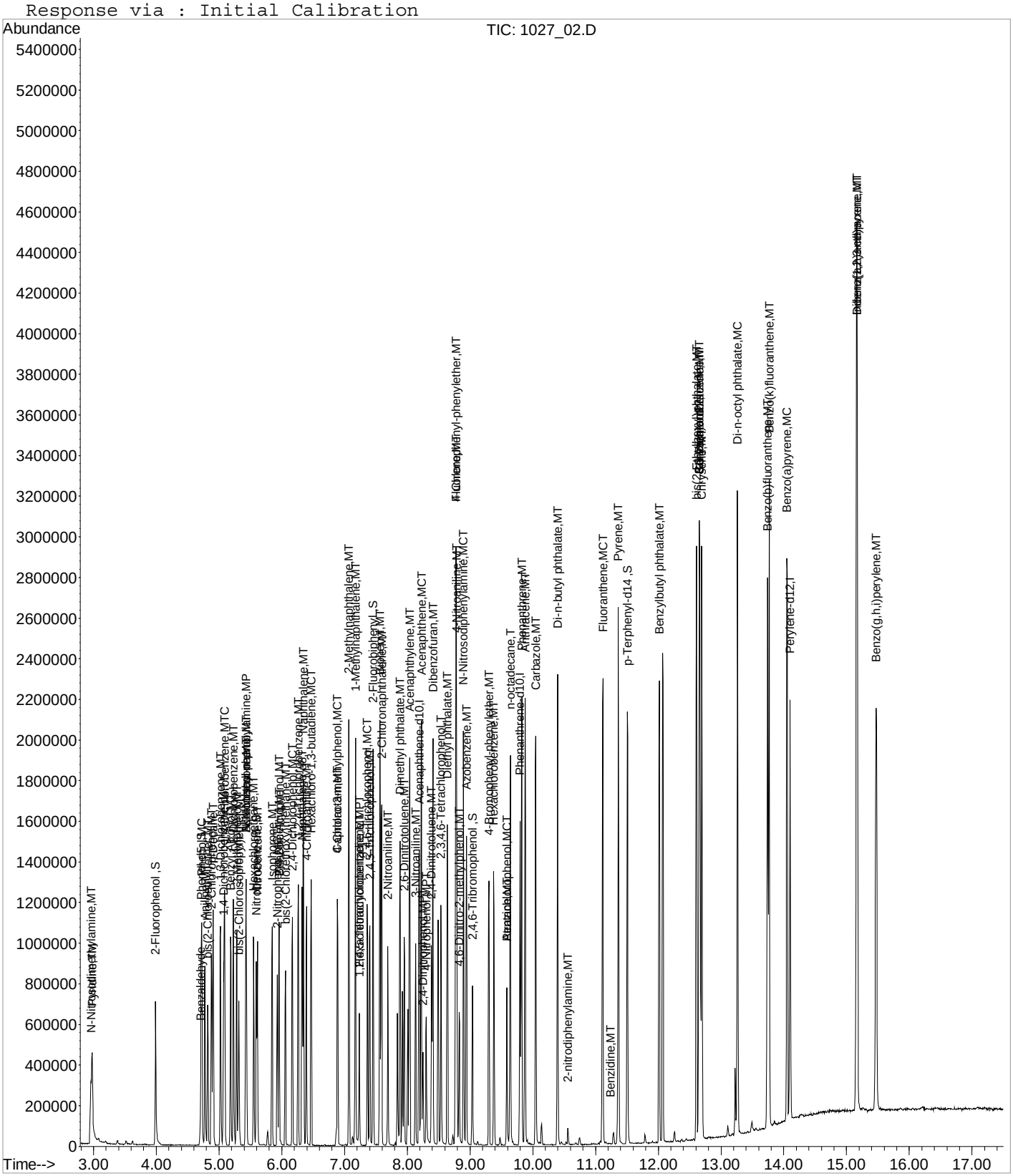
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	381	18.5101349 ppb	#	32
41)	Hexachlorocyclopentadiene	7.24	237	101246	8311.5240869 ppb		98
42)	2,4,6-Trichlorophenol	7.36	196	152503	10888.4243492 ppb		96
43)	2,4,5-Trichlorophenol	7.40	196	166477	10637.2507248 ppb		98
45)	Biphenyl	7.56	154	633291	9818.1757585 ppb		98
46)	2-Chloronaphthalene	7.59	162	507544	9849.1887729 ppb		98
47)	2-Nitroaniline	7.69	138	172396	10084.9413287 ppb	#	94
48)	Acenaphthylene	8.04	152	840577	9904.3450996 ppb		100
49)	Dimethyl phthalate	7.89	163	590063	10136.1026324 ppb		96
50)	2,6-Dinitrotoluene	7.96	165	137135	10476.7606475 ppb		96
51)	3-Nitroaniline	8.13	138	150937	9884.7304336 ppb		91
52)	Acenaphthene	8.23	153	529720	9844.0902788 ppb		99
53)	2,4-Dinitrophenol	8.25	184	60347	11205.3178094 ppb		86
54)	Dibenzofuran	8.41	168	744487	9951.4311747 ppb		95
55)	2,4-Dinitrotoluene	8.38	165	184054	10505.4072812 ppb		94
56)	2,3,4,6-Tetrachlorophenol	8.54	232	126910	13416.2731896 ppb		86
57)	4-Nitrophenol	8.30	139	114499	10072.4877577 ppb		90
58)	Fluorene	8.78	166	608851	9850.5122076 ppb		98
59)	4-Chlorophenyl-phenylether	8.77	204	268469	9972.6613612 ppb		93
60)	Diethyl phthalate	8.64	149	631182	9989.4653681 ppb		98
61)	4-Nitroaniline	8.79	138	155906	9981.6098143 ppb	#	87
62)	Azobenzene	8.94	77	550342	8513.5559926 ppb		97
63)	Atrazine	9.58	200	16130	1198.4709872 ppb	#	21
65)	4,6-Dinitro-2-methylphenol	8.83	198	91904	10961.9854873 ppb		94
66)	N-Nitrosodiphenylamine	8.90	169	489438	9762.9631443 ppb		99
68)	4-Bromophenyl-phenylether	9.30	248	150008	9771.3084782 ppb		95
69)	Hexachlorobenzene	9.38	284	166436	9613.7150537 ppb		96
70)	n-octadecane	9.64	55	90556	8606.4604141 ppb		97
71)	Pentachlorophenol	9.59	266	83132	10165.0200237 ppb		96
72)	Phenanthrene	9.82	178	858475	9798.9998881 ppb		96
73)	Anthracene	9.88	178	858229	9569.5762723 ppb		99
74)	Carbazole	10.05	167	877546	10055.6410409 ppb		99
75)	Di-n-butyl phthalate	10.39	149	1261954	10626.6917416 ppb		99
76)	2-nitrodiphenylamine	10.56	167	417	20.6278634 ppb	#	100
77)	Fluoranthene	11.12	202	1024064	9912.4343233 ppb		99
79)	Benzidine	11.24	184	1699	760.8182699 ppb		78
80)	Pyrene	11.36	202	1086984	9570.0022250 ppb		99
82)	Benzylbutyl phthalate	12.02	149	609158	9940.7349407 ppb		94
83)	3,3-Dichlorobenzidine	12.66	252	62	1.5259795 ppb	#	1
84)	Benzo(a)anthracene	12.65	228	1080095	9165.5868236 ppb		96
85)	Chrysene	12.69	228	986994	9235.3102589 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	920573	9692.8603478 ppb		98
87)	Di-n-octyl phthalate	13.26	149	1667347	10116.4394766 ppb		100
89)	Benzo(b)fluoranthene	13.74	252	1255650	10186.6157085 ppb		94
90)	Benzo(k)fluoranthene	13.77	252	1057607	9451.5386502 ppb		98
91)	Benzo(a)pyrene	14.05	252	1137306	9855.8151396 ppb		92
92)	Indeno(1,2,3-cd)pyrene	15.16	276	1379118	10853.2511659 ppb		92
93)	Dibenz(a,h)anthracene	15.16	278	1173745	11065.2518122 ppb		94
94)	Benzo(g,h,i)perylene	15.47	276	1126095	10679.1166869 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 02.D Vial: 2
Acq On : 27 Oct 2014 11:17 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:38 2014 Quant Results File: S804J16N.RES

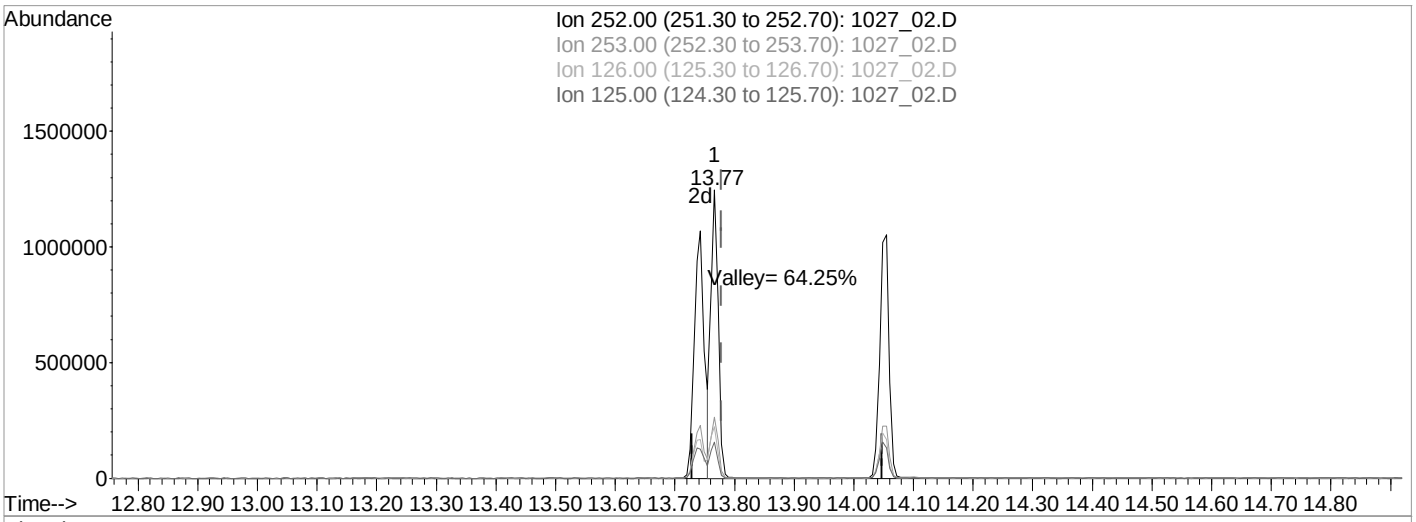
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

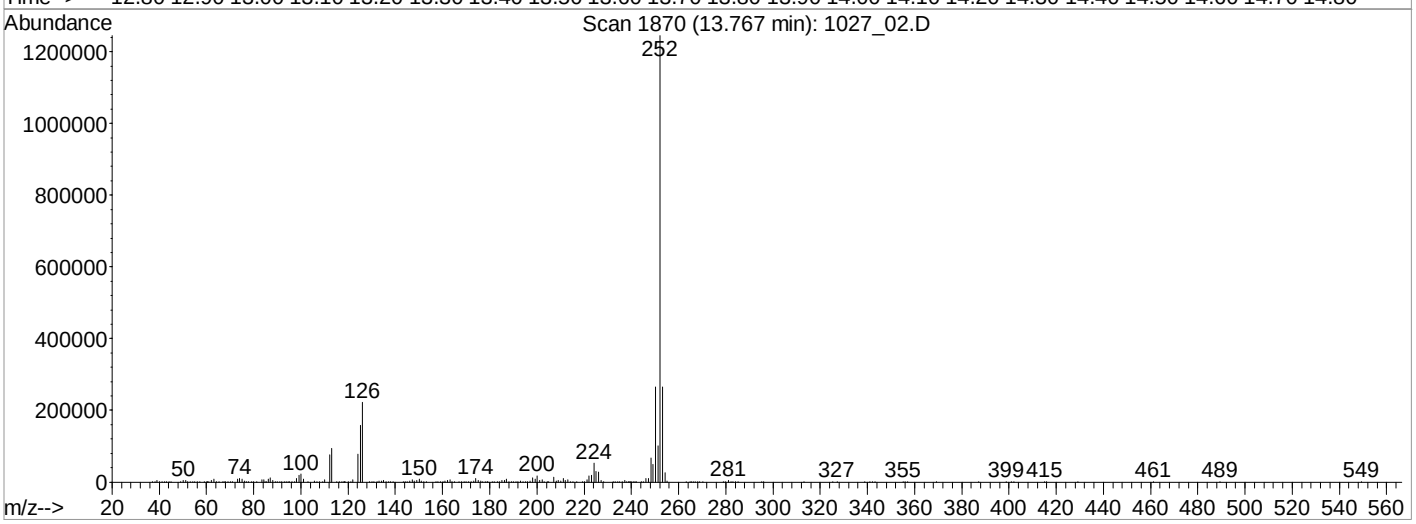


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102714\1027 02.D Vial: 2
Acq On : 27 Oct 2014 11:17 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:38 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1027_02.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 9451.5386502 ppb

Qvalue = 98

response 1057607

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.28
126.00	19.90	17.80
125.00	13.60	12.60

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 02.D Vial: 2
Acq On : 27 Oct 2014 11:17 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:38 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	127684	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	523043	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	346263	8000.00 ppb	0.00
64) Phenanthrene-d10	9.79	188	591852	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	719581	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	773668	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	213179	9471.6637988 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 47358.32%#		
7) Phenol-d5	4.71	99	251875	9179.3163832 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 45896.58%#		
23) Nitrobenzene-d5	5.59	82	246528	9739.5794476 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 97395.79%#		
44) 2-Fluorobiphenyl	7.46	172	592017	10116.1344396 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 101161.34%#		
67) 2,4,6-Tribromophenol	9.04	330	70229	10459.5992607 ppb	-0.01
Spiked Amount 20.000	Range 22 - 154		Recovery = 52298.00%#		
81) p-Terphenyl-d14	11.51	244	831562	9523.6918483 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 95236.92%#		

Target Compounds					Qvalue
2) Pyridine	2.98	79	242163	6749.1712284 ppb	96
3) N-Nitrosodimethylamine	2.96	42	134204	7364.2117320 ppb	87
5) Aniline	4.78	66	119052	8756.9790008 ppb	99
6) bis(2-Chloroethyl)ether	4.82	63	159656	8466.8234356 ppb	97
8) Phenol	4.72	94	260889	9220.3568805 ppb	92
9) Benzaldehyde	4.70	105	679	53.4660449 ppb #	1
10) 2-Chlorophenol	4.88	128	240916	9778.7913533 ppb	97
11) n-Decane	4.91	41	129552	8845.0504628 ppb	99
12) 1,3-Dichlorobenzene	5.02	146	273341	10030.5173711 ppb	99
13) 1,4-Dichlorobenzene	5.09	146	279297	10036.0986492 ppb	98
14) Benzyl Alcohol	5.18	79	192611	9321.0064765 ppb	95
15) 1,2-Dichlorobenzene	5.23	146	268058	10063.8402710 ppb	98
16) bis(2-Chloroisopropyl)ethe	5.32	121	74241	9306.0406142 ppb	97
17) 2-Methylphenol	5.28	108	204305	9172.0093543 ppb	99
18) Hexachloroethane	5.55	117	121154	10131.3083894 ppb	97
19) N-Nitrosodi-n-propylamine	5.43	70	159526	8521.9048743 ppb	97
20) 3&4-Methyl phenol	5.42	107	235660	9216.6201355 ppb	98
21) Acetophenone	5.43	105	2150	67.8197981 ppb #	1
24) Nitrobenzene	5.61	77	247537	9913.6584282 ppb	97
25) Isophorone	5.85	82	419594	9588.1779396 ppb	96
26) 2-Nitrophenol	5.93	139	140661	11345.2480430 ppb	90
27) 2,4-Dimethylphenol	5.96	107	199478	8516.8563053 ppb	98
28) bis(2-Chlorethoxy)methane	6.06	93	267026	9294.4607423 ppb	96
29) 2,4-Dichlorophenol	6.17	162	213199	10844.4210344 ppb	98
30) Benzoic Acid	5.96	105	6309	2661.3284741 ppb #	1
31) 1,2,4-Trichlorobenzene	6.26	180	230327	10494.3013945 ppb	98
32) Naphthalene	6.35	128	759429	9913.4336468 ppb	99
33) 4-Chloroaniline	6.39	65	87405	9152.1838416 ppb	92
34) Hexachloro-1,3-butadiene	6.47	225	137657	11236.9600294 ppb	97
35) Caprolactam	6.89	113	7288	1071.6901304 ppb #	18
36) 4-Chloro-3-methylphenol	6.89	107	226541	10123.8003491 ppb	96
37) 2-Methylnaphthalene	7.07	142	531065	10008.2381166 ppb	96
38) 1-Methylnaphthalene	7.17	142	497888	10096.6037199 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 02.D Vial: 2
Acq On : 27 Oct 2014 11:17 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:38 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

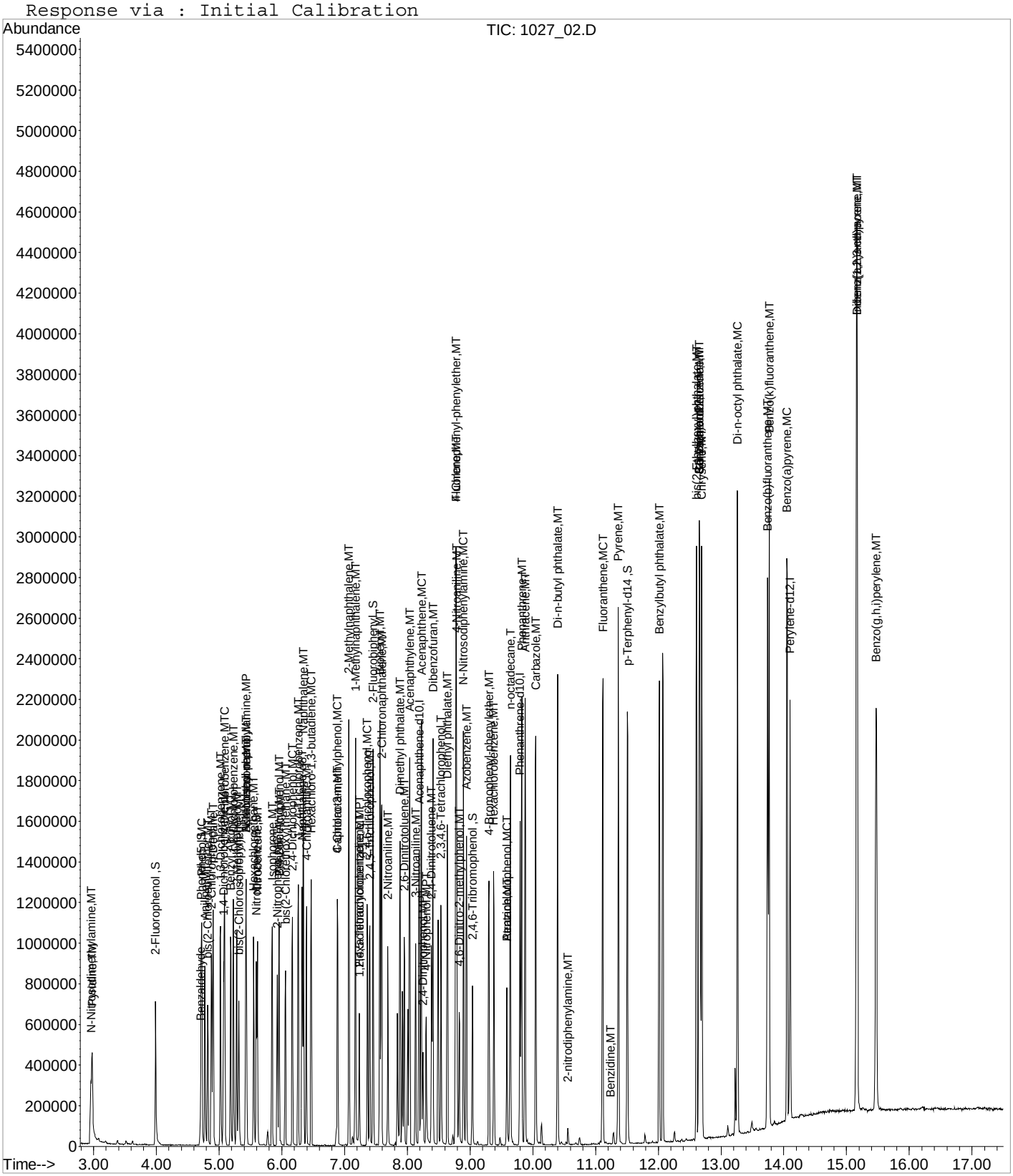
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	381	18.5101349 ppb	#	32
41)	Hexachlorocyclopentadiene	7.24	237	101246	8311.5240869 ppb		98
42)	2,4,6-Trichlorophenol	7.36	196	152503	10888.4243492 ppb		96
43)	2,4,5-Trichlorophenol	7.40	196	166477	10637.2507248 ppb		98
45)	Biphenyl	7.56	154	633291	9818.1757585 ppb		98
46)	2-Chloronaphthalene	7.59	162	507544	9849.1887729 ppb		98
47)	2-Nitroaniline	7.69	138	172396	10084.9413287 ppb	#	94
48)	Acenaphthylene	8.04	152	840577	9904.3450996 ppb		100
49)	Dimethyl phthalate	7.89	163	590063	10136.1026324 ppb		96
50)	2,6-Dinitrotoluene	7.96	165	137135	10476.7606475 ppb		96
51)	3-Nitroaniline	8.13	138	150937	9884.7304336 ppb		91
52)	Acenaphthene	8.23	153	529720	9844.0902788 ppb		99
53)	2,4-Dinitrophenol	8.25	184	60347	11205.3178094 ppb		86
54)	Dibenzofuran	8.41	168	744487	9951.4311747 ppb		95
55)	2,4-Dinitrotoluene	8.38	165	184054	10505.4072812 ppb		94
56)	2,3,4,6-Tetrachlorophenol	8.54	232	126910	13416.2731896 ppb		86
57)	4-Nitrophenol	8.30	139	114499	10072.4877577 ppb		90
58)	Fluorene	8.78	166	608851	9850.5122076 ppb		98
59)	4-Chlorophenyl-phenylether	8.77	204	268469	9972.6613612 ppb		93
60)	Diethyl phthalate	8.64	149	631182	9989.4653681 ppb		98
61)	4-Nitroaniline	8.79	138	155906	9981.6098143 ppb	#	87
62)	Azobenzene	8.94	77	550342	8513.5559926 ppb		97
63)	Atrazine	9.58	200	16130	1198.4709872 ppb	#	21
65)	4,6-Dinitro-2-methylphenol	8.83	198	91904	10961.9854873 ppb		94
66)	N-Nitrosodiphenylamine	8.90	169	489438	9762.9631443 ppb		99
68)	4-Bromophenyl-phenylether	9.30	248	150008	9771.3084782 ppb		95
69)	Hexachlorobenzene	9.38	284	166436	9613.7150537 ppb		96
70)	n-octadecane	9.64	55	90556	8606.4604141 ppb		97
71)	Pentachlorophenol	9.59	266	83132	10165.0200237 ppb		96
72)	Phenanthrene	9.82	178	858475	9798.9998881 ppb		96
73)	Anthracene	9.88	178	858229	9569.5762723 ppb		99
74)	Carbazole	10.05	167	877546	10055.6410409 ppb		99
75)	Di-n-butyl phthalate	10.39	149	1261954	10626.6917416 ppb		99
76)	2-nitrodiphenylamine	10.56	167	417	20.6278634 ppb	#	100
77)	Fluoranthene	11.12	202	1024064	9912.4343233 ppb		99
79)	Benzidine	11.24	184	1699	760.8182699 ppb		78
80)	Pyrene	11.36	202	1086984	9570.0022250 ppb		99
82)	Benzylbutyl phthalate	12.02	149	609158	9940.7349407 ppb		94
83)	3,3-Dichlorobenzidine	12.66	252	62	1.5259795 ppb	#	1
84)	Benzo(a)anthracene	12.65	228	1080095	9165.5868236 ppb		96
85)	Chrysene	12.69	228	986994	9235.3102589 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	920573	9692.8603478 ppb		98
87)	Di-n-octyl phthalate	13.26	149	1667347	10116.4394766 ppb		100
89)	Benzo(b)fluoranthene	13.74	252	1255650	10186.6157085 ppb		94
90)	Benzo(k)fluoranthene	13.77	252	1057607	9451.5386502 ppb		98
91)	Benzo(a)pyrene	14.05	252	1137306	9855.8151396 ppb		92
92)	Indeno(1,2,3-cd)pyrene	15.16	276	1379118	10853.2511659 ppb		92
93)	Dibenz(a,h)anthracene	15.16	278	1173745	11065.2518122 ppb		94
94)	Benzo(g,h,i)perylene	15.47	276	1126095	10679.1166869 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 02.D Vial: 2
Acq On : 27 Oct 2014 11:17 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:38 2014 Quant Results File: S804J16N.RES

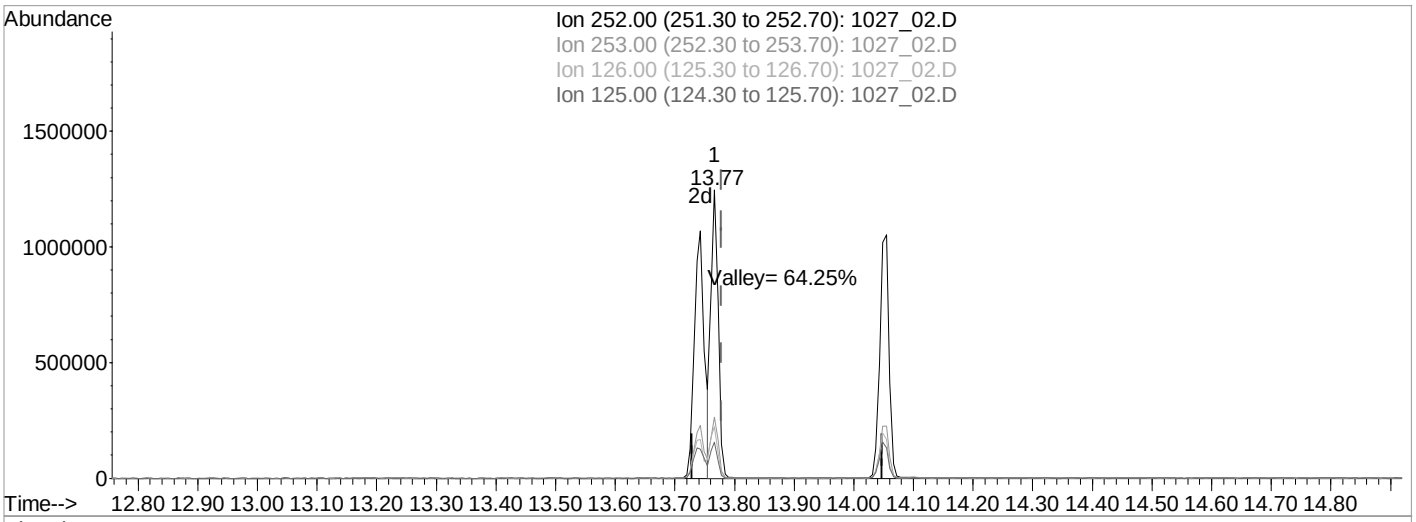
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

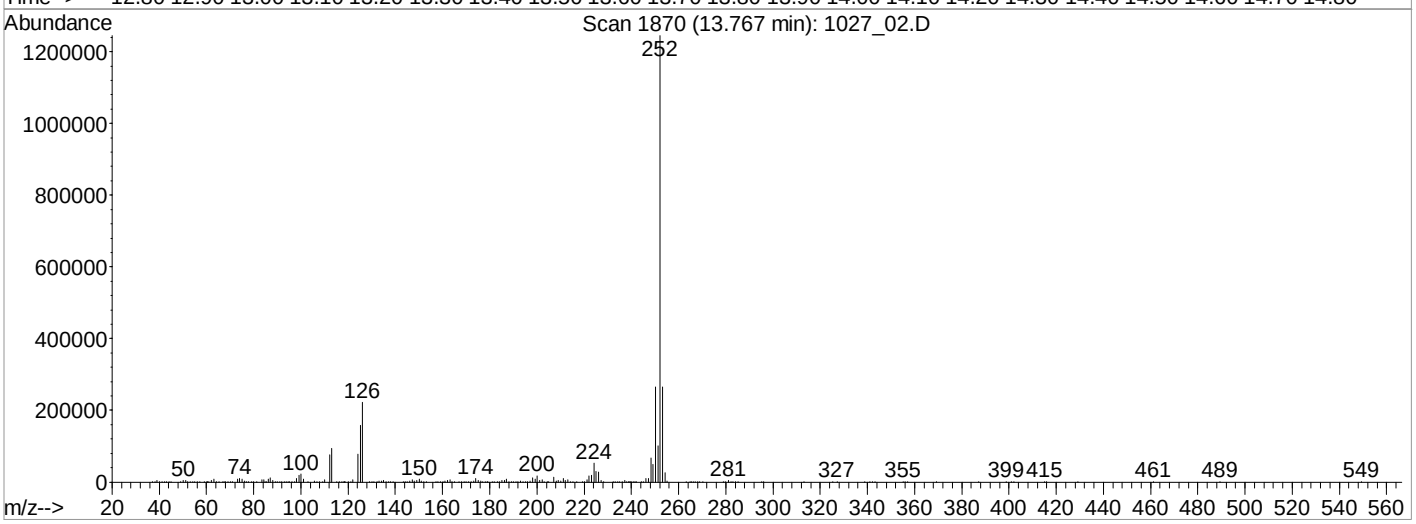


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102714\1027 02.D Vial: 2
Acq On : 27 Oct 2014 11:17 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:38 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1027_02.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 9451.5386502 ppb

Qvalue = 98

response 1057607

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.28
126.00	19.90	17.80
125.00	13.60	12.60

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 03.D Vial: 3
Acq On : 27 Oct 2014 11:39 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 13:40 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	125380	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	519780	8000.00 ppb	0.00
40) Acenaphthene-d10	8.18	164	330732	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	579641	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	707299	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	806605	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	3.98	112	56	2.5338336 ppb	-0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 12.67%		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	5.62	82	54	2.1467701 ppb	0.02
Spiked Amount 10.000	Range 28 - 123		Recovery = 21.47%#		
44) 2-Fluorobiphenyl	7.51	172	335	5.9931492 ppb	0.05
Spiked Amount 10.000	Range 35 - 133		Recovery = 59.93%		
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	11.50	244	68	0.7923120 ppb	-0.01
Spiked Amount 10.000	Range 30 - 148		Recovery = 7.92%#		

Target Compounds						Qvalue
2) Pyridine	2.94	79	66	1.8732460 ppb	#	34
3) N-Nitrosodimethylamine	2.94	42	92	5.1411094 ppb	#	1
5) Aniline	4.72	66	57	4.2697326 ppb	#	1
6) bis(2-Chloroethyl)ether	4.69	63	5220	281.9122683 ppb	#	10
8) Phenol	4.72	94	155	5.5786855 ppb	#	1
9) Benzaldehyde	4.69	105	132514	10626.2067533 ppb		98
10) 2-Chlorophenol	0.00	128	0	N.D.		
11) n-Decane	4.90	41	252	17.5212444 ppb	#	1
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
14) Benzyl Alcohol	5.24	79	57	2.8090844 ppb	#	65
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
16) bis(2-Chloroisopropyl)ethe	5.44	121	6333	808.4233196 ppb	#	1
17) 2-Methylphenol	5.20	108	64	2.9259957 ppb	#	19
18) Hexachloroethane	5.51	117	121	10.3043680 ppb	#	10
19) N-Nitrosodi-n-propylamine	5.45	70	92	5.0049673 ppb	#	1
20) 3&4-Methyl phenol	5.44	107	1331	53.0117431 ppb	#	1
21) Acetophenone	5.44	105	312707	10045.3217023 ppb		96
24) Nitrobenzene	5.44	77	240231	9681.4566826 ppb	#	60
25) Isophorone	5.86	82	54	1.2417049 ppb		58
26) 2-Nitrophenol	5.93	139	57	4.6262914 ppb	#	33
27) 2,4-Dimethylphenol	6.00	107	56	2.4059698 ppb	#	1
28) bis(2-Chlorethoxy)methane	6.04	93	244	8.5463033 ppb	#	1
29) 2,4-Dichlorophenol	0.00	162	0	N.D.		
30) Benzoic Acid	6.03	105	130242	13301.8350235 ppb		94
31) 1,2,4-Trichlorobenzene	6.26	180	969	44.4273376 ppb		89
32) Naphthalene	6.34	128	3451	45.3314609 ppb		90
33) 4-Chloroaniline	6.32	65	1302	137.1883623 ppb	#	1
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		
35) Caprolactam	6.73	113	63174	9347.9648923 ppb	#	82
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.		
37) 2-Methylnaphthalene	0.00	142	0	N.D.		
38) 1-Methylnaphthalene	7.25	142	1878	38.3227856 ppb	#	43

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 03.D Vial: 3
Acq On : 27 Oct 2014 11:39 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 13:40 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

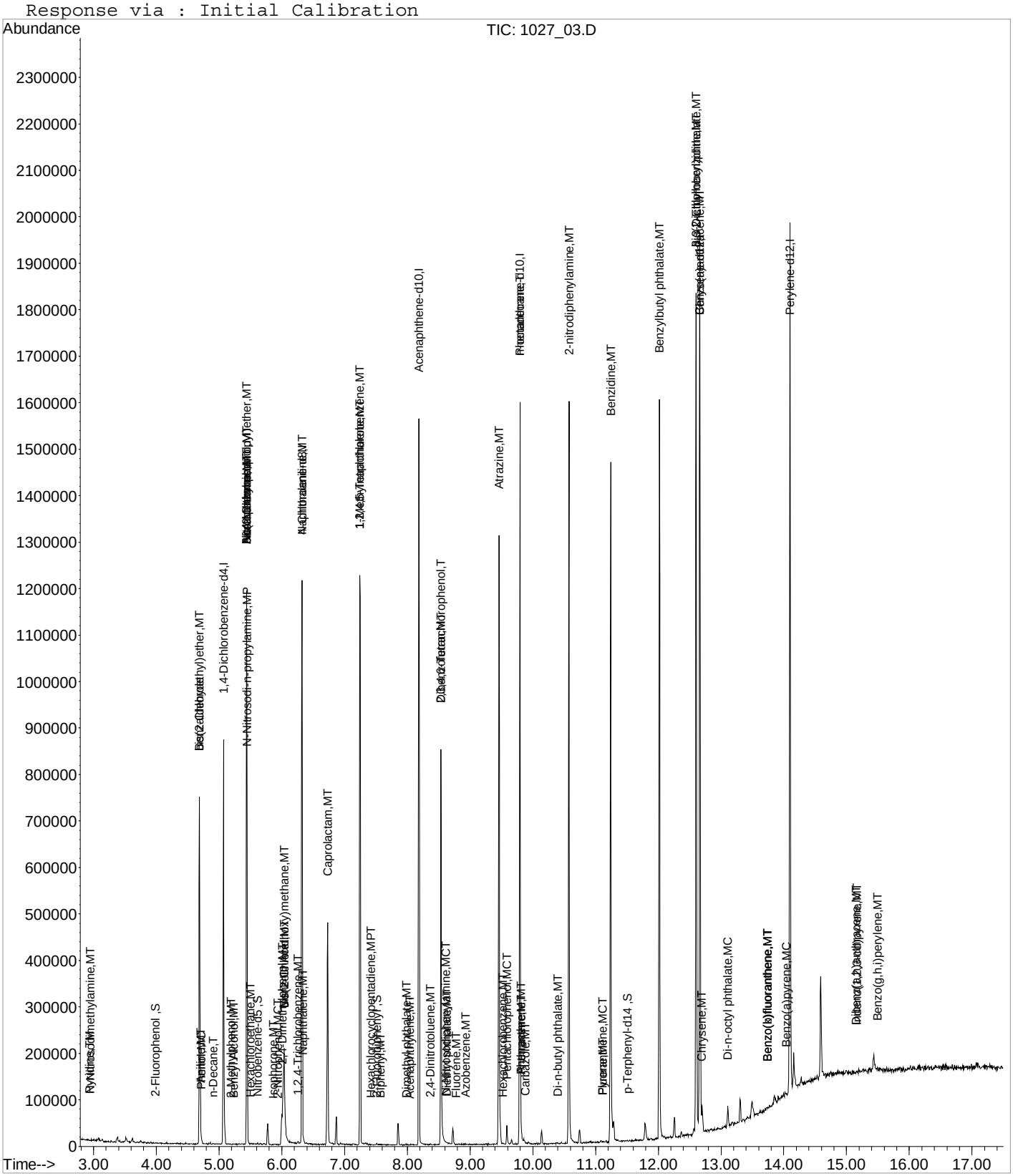
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	213180	10421.9478306 ppb		99
41)	Hexachlorocyclopentadiene	7.42	237	55	4.7271061 ppb	#	23
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	7.56	154	77	1.2498218 ppb	#	41
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	8.03	152	65	0.8018470 ppb		63
49)	Dimethyl phthalate	8.00	163	55	0.9891569 ppb	#	65
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	8.54	168	35059	490.6342023 ppb	#	46
55)	2,4-Dinitrotoluene	8.37	165	58	3.4659756 ppb	#	30
56)	2,3,4,6-Tetrachlorophenol	8.54	232	98096	10857.1844990 ppb		85
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	8.77	166	127	2.1512029 ppb	#	17
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	8.64	149	565	9.3619423 ppb	#	51
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	8.93	77	120	1.9435220 ppb	#	14
63)	Atrazine	9.46	200	143306	11147.7546532 ppb	#	86
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	8.62	169	73	1.4868284 ppb	#	58
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	9.51	284	61	3.5977239 ppb	#	21
70)	n-octadecane	9.79	55	989	95.9748979 ppb	#	1
71)	Pentachlorophenol	9.59	266	4710	1924.6258039 ppb		96
72)	Phenanthrene	9.82	178	78	0.9090813 ppb	#	23
73)	Anthracene	9.82	178	78	0.8880515 ppb	#	28
74)	Carbazole	9.88	167	54	0.6318117 ppb	#	62
75)	Di-n-butyl phthalate	10.39	149	848	7.2912910 ppb		79
76)	2-nitrodiphenylamine	10.58	167	224132	11320.7729534 ppb	#	100
77)	Fluoranthene	11.11	202	89	0.8796244 ppb		60
79)	Benzidine	11.24	184	559003	8945.4918077 ppb		99
80)	Pyrene	11.11	202	89	0.7971784 ppb	#	59
82)	Benzylbutyl phthalate	12.01	149	918	15.2408036 ppb	#	1
83)	3,3-Dichlorobenzidine	12.60	252	379987	9514.8594912 ppb		97
84)	Benzo(a)anthracene	12.66	228	1898	16.3859329 ppb	#	1
85)	Chrysene	12.69	228	191	1.8182223 ppb	#	31
86)	bis(2-Ethylhexyl)phthalate	12.60	149	12712	136.1708819 ppb		83
87)	Di-n-octyl phthalate	13.11	149	4226	26.0860205 ppb		66
89)	Benzo(b)fluoranthene	13.74	252	741	5.7659816 ppb	#	1
90)	Benzo(k)fluoranthene	13.74	252	747	6.4031330 ppb	#	21
91)	Benzo(a)pyrene	14.04	252	621	5.1617925 ppb	#	52
92)	Indeno(1,2,3-cd)pyrene	15.17	276	89	0.6718033 ppb	#	41
93)	Dibenz(a,h)anthracene	15.15	278	183	1.6547499 ppb	#	50
94)	Benzo(g,h,i)perylene	15.49	276	196	1.7828307 ppb	#	45

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 03.D Vial: 3
Acq On : 27 Oct 2014 11:39 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 13:40 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 04.D Vial: 6
Acq On : 27 Oct 2014 1:49 pm Operator: 280
Sample : LCS 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 27 14:07 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	161729	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	676307	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	435618	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	750008	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	948121	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1013044	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.00	112	301099	351.7094022 ppb	0.01
Spiked Amount 666.000	Range 21 - 116		Recovery = 52.81%		
7) Phenol-d5	4.72	99	371492	355.9324246 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 53.44%		
23) Nitrobenzene-d5	5.60	82	172928	175.9450350 ppb	0.00
Spiked Amount 333.000	Range 22 - 129		Recovery = 52.84%		
44) 2-Fluorobiphenyl	7.46	172	439945	198.9863587 ppb	0.00
Spiked Amount 333.000	Range 35 - 129		Recovery = 59.76%		
67) 2,4,6-Tribromophenol	9.05	330	108035	422.8189999 ppb	0.00
Spiked Amount 666.000	Range 22 - 142		Recovery = 63.49%		
81) p-Terphenyl-d14	11.52	244	586732	169.8285220 ppb	0.00
Spiked Amount 333.000	Range 22 - 128		Recovery = 51.00%		

Target Compounds						Qvalue
2) Pyridine	2.99	79	91049	66.7130276 ppb		95
3) N-Nitrosodimethylamine	2.96	42	94532	136.3742780 ppb	#	79
5) Aniline	4.78	66	81059	156.7514858 ppb		97
6) bis(2-Chloroethyl)ether	4.83	63	108419	151.1588113 ppb		92
8) Phenol	4.74	94	201341	187.0755351 ppb		96
9) Benzaldehyde	4.69	105	35726	73.9580565 ppb	#	86
10) 2-Chlorophenol	4.89	128	171213	182.7044330 ppb		95
11) n-Decane	4.91	41	95084	170.6697091 ppb		98
12) 1,3-Dichlorobenzene	5.03	146	182559	176.1224083 ppb		98
13) 1,4-Dichlorobenzene	5.09	146	184241	174.0514897 ppb		97
14) Benzyl Alcohol	5.19	79	152420	193.9172719 ppb		99
15) 1,2-Dichlorobenzene	5.24	146	176451	174.1613963 ppb		97
16) bis(2-Chloroisopropyl)ethe	5.32	121	53266	175.5351227 ppb		99
17) 2-Methylphenol	5.29	108	148759	175.5745466 ppb		95
18) Hexachloroethane	5.56	117	82241	180.8043904 ppb		96
19) N-Nitrosodi-n-propylamine	5.45	70	119101	167.2682164 ppb		89
20) 3&4-Methyl phenol	5.43	107	203803	209.5507403 ppb		92
21) Acetophenone	5.45	105	239921	198.9661091 ppb	#	80
24) Nitrobenzene	5.62	77	179966	185.6188327 ppb		97
25) Isophorone	5.85	82	347696	204.6181979 ppb		99
26) 2-Nitrophenol	5.93	139	103756	215.5218272 ppb		94
27) 2,4-Dimethylphenol	5.96	107	193248	212.4893010 ppb		95
28) bis(2-Chlorethoxy)methane	6.06	93	193614	173.5582050 ppb		98
29) 2,4-Dichlorophenol	6.18	162	159543	208.9953901 ppb		97
30) Benzoic Acid	6.01	105	35811	154.2031975 ppb		100
31) 1,2,4-Trichlorobenzene	6.27	180	154771	181.6084349 ppb		96
32) Naphthalene	6.35	128	526782	177.0947142 ppb		99
33) 4-Chloroaniline	6.40	65	64968	175.1966110 ppb		95
34) Hexachloro-1,3-butadiene	6.47	225	94058	197.7352150 ppb		95
35) Caprolactam	6.74	113	54738	207.2943846 ppb	#	79
36) 4-Chloro-3-methylphenol	6.90	107	185932	213.9876181 ppb		97
37) 2-Methylnaphthalene	7.07	142	374338	181.6818780 ppb		97
38) 1-Methylnaphthalene	7.19	142	391509	204.4669634 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 04.D Vial: 6
Acq On : 27 Oct 2014 1:49 pm Operator: 280
Sample : LCS 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 27 14:07 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

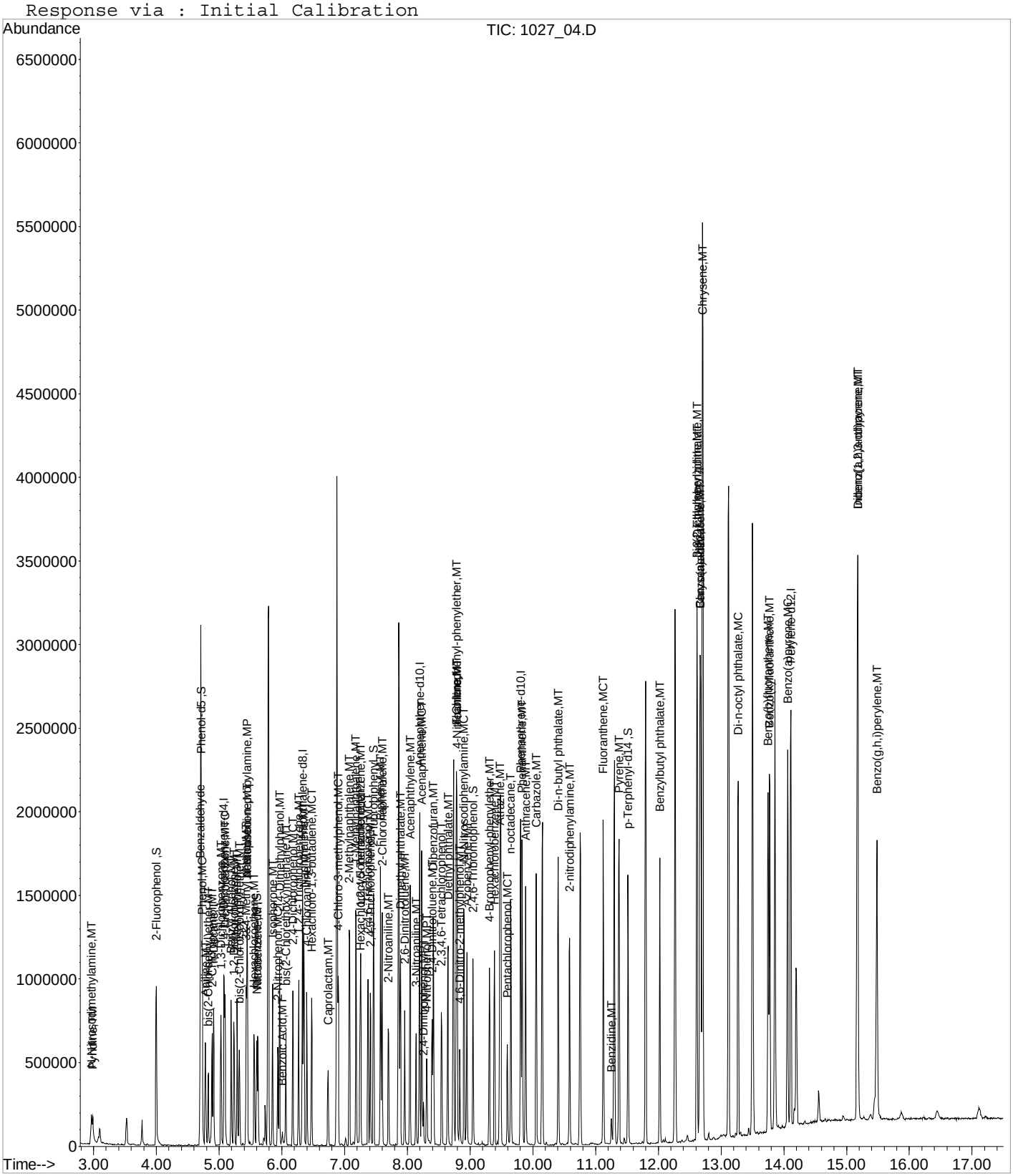
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	169983	212.6805832 ppb		99
41)	Hexachlorocyclopentadiene	7.24	237	66182	143.8093704 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	117281	221.6454475 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	133837	226.3580022 ppb		92
45)	Biphenyl	7.57	154	501722	205.8899438 ppb		99
46)	2-Chloronaphthalene	7.60	162	394185	202.4749784 ppb		96
47)	2-Nitroaniline	7.70	138	137961	213.6225175 ppb	#	93
48)	Acenaphthylene	8.04	152	654582	204.1534975 ppb		99
49)	Dimethyl phthalate	7.89	163	465475	211.6476648 ppb		96
50)	2,6-Dinitrotoluene	7.96	165	105778	213.9038329 ppb		94
51)	3-Nitroaniline	8.14	138	112731	195.4145874 ppb		91
52)	Acenaphthene	8.23	153	398410	195.9764797 ppb		99
53)	2,4-Dinitrophenol	8.26	184	36531	220.5181761 ppb	#	93
54)	Dibenzofuran	8.41	168	567451	200.7711446 ppb		95
55)	2,4-Dinitrotoluene	8.40	165	141458	213.7172865 ppb		98
56)	2,3,4,6-Tetrachlorophenol	8.54	232	92823	259.7383956 ppb		82
57)	4-Nitrophenol	8.31	139	88831	216.5762075 ppb	#	90
58)	Fluorene	8.79	166	458689	196.4312676 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	200437	197.0785349 ppb		92
60)	Diethyl phthalate	8.65	149	500378	209.6188584 ppb		99
61)	4-Nitroaniline	8.80	138	118683	201.1271871 ppb	#	87
62)	Azobenzene	8.95	77	417901	171.1182198 ppb		96
63)	Atrazine	9.47	200	134117	263.7676270 ppb	#	85
65)	4,6-Dinitro-2-methylphenol	8.84	198	72384	244.3924720 ppb		94
66)	N-Nitrosodiphenylamine	8.90	169	375757	196.9620256 ppb		98
68)	4-Bromophenyl-phenylether	9.31	248	118092	202.1390584 ppb		93
69)	Hexachlorobenzene	9.39	284	133618	202.8151533 ppb		100
70)	n-octadecane	9.65	55	75053	187.4419779 ppb		95
71)	Pentachlorophenol	9.59	266	61860	218.2665114 ppb		90
72)	Phenanthrene	9.83	178	664667	199.3653477 ppb		96
73)	Anthracene	9.89	178	687325	201.3924201 ppb		99
74)	Carbazole	10.05	167	662930	199.6176787 ppb		99
75)	Di-n-butyl phthalate	10.41	149	945486	209.2189981 ppb		100
76)	2-nitrodiphenylamine	10.59	167	193027	250.9156268 ppb	#	100
77)	Fluoranthene	11.12	202	770778	196.0532252 ppb		100
79)	Benzidine	11.25	184	68735	49.5939871 ppb		97
80)	Pyrene	11.38	202	800199	178.0520781 ppb		99
82)	Benzylbutyl phthalate	12.02	149	454229	187.3369974 ppb		99
83)	3,3-Dichlorobenzidine	12.61	252	251597	156.5029796 ppb		99
84)	Benzo(a)anthracene	12.66	228	803379	172.2974899 ppb		96
85)	Chrysene	12.70	228	763443	180.5401297 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.62	149	722347	192.2205215 ppb		99
87)	Di-n-octyl phthalate	13.27	149	1198254	183.7429725 ppb		100
89)	Benzo(b)fluoranthene	13.75	252	852474	175.8786092 ppb		97
90)	Benzo(k)fluoranthene	13.78	252	839660	190.8324481 ppb		94
91)	Benzo(a)pyrene	14.06	252	861396	189.8403948 ppb		95
92)	Indeno(1,2,3-cd)pyrene	15.18	276	1057700	211.6856849 ppb		90
93)	Dibenz(a,h)anthracene	15.18	278	901725	216.1883147 ppb		93
94)	Benzo(g,h,i)perylene	15.48	276	880970	212.4672419 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 04.D Vial: 6
Acq On : 27 Oct 2014 1:49 pm Operator: 280
Sample : LCS 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 27 14:07 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 05.D Vial: 7
Acq On : 27 Oct 2014 2:11 pm Operator: 280
Sample : LCSD 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 27 14:53 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	175023	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	721781	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	472655	8000.00 ppb	0.00
64) Phenanthrene-d10	9.79	188	835995	8000.00 ppb	-0.01
78) Chrysene-d12	12.67	240	962292	8000.00 ppb	0.00
88) Perylene-d12	14.10	264	1089363	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	4.00	112	360810	389.4448890 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 58.48%		
7) Phenol-d5	4.72	99	450506	398.8516971 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 59.89%		
23) Nitrobenzene-d5	5.59	82	203753	194.2469222 ppb	0.00
Spiked Amount 333.000	Range 22 - 129		Recovery = 58.33%		
44) 2-Fluorobiphenyl	7.46	172	524654	218.7053804 ppb	0.00
Spiked Amount 333.000	Range 35 - 129		Recovery = 65.68%		
67) 2,4,6-Tribromophenol	9.04	330	131932	463.2360827 ppb	0.00
Spiked Amount 666.000	Range 22 - 142		Recovery = 69.55%		
81) p-Terphenyl-d14	11.51	244	729972	208.1775760 ppb	0.00
Spiked Amount 333.000	Range 22 - 128		Recovery = 62.52%		

Target Compounds						Qvalue
2) Pyridine	2.98	79	133388	90.3119061 ppb		95
3) N-Nitrosodimethylamine	2.96	42	112690	150.2213894 ppb	#	81
5) Aniline	4.78	66	95100	169.9353455 ppb		97
6) bis(2-Chloroethyl)ether	4.82	63	130129	167.6466736 ppb		95
8) Phenol	4.73	94	234039	200.9397169 ppb		94
9) Benzaldehyde	4.69	105	35625	68.1473146 ppb		94
10) 2-Chlorophenol	4.88	128	206703	203.8223972 ppb		93
11) n-Decane	4.91	41	110562	183.3781845 ppb	#	99
12) 1,3-Dichlorobenzene	5.02	146	216187	192.7230765 ppb		98
13) 1,4-Dichlorobenzene	5.09	146	221599	193.4425624 ppb		97
14) Benzyl Alcohol	5.19	79	184352	216.7280715 ppb		98
15) 1,2-Dichlorobenzene	5.23	146	211111	192.5446317 ppb		99
16) bis(2-Chloroisopropyl)ethe	5.32	121	63401	193.0646792 ppb		98
17) 2-Methylphenol	5.28	108	175307	191.1922750 ppb		98
18) Hexachloroethane	5.55	117	96428	195.8919216 ppb		95
19) N-Nitrosodi-n-propylamine	5.43	70	144365	187.3495744 ppb		98
20) 3&4-Methyl phenol	5.42	107	240855	228.8374348 ppb		93
21) Acetophenone	5.44	105	289137	221.5681301 ppb	#	82
24) Nitrobenzene	5.61	77	213549	206.3799735 ppb		98
25) Isophorone	5.85	82	415417	229.0694974 ppb		98
26) 2-Nitrophenol	5.93	139	123920	241.1892137 ppb		90
27) 2,4-Dimethylphenol	5.96	107	234664	241.7725361 ppb		96
28) bis(2-Chlorethoxy)methane	6.06	93	232078	194.9309514 ppb		95
29) 2,4-Dichlorophenol	6.17	162	193500	237.5080636 ppb		98
30) Benzoic Acid	6.00	105	41016	160.2982722 ppb	#	74
31) 1,2,4-Trichlorobenzene	6.26	180	186796	205.3772982 ppb		98
32) Naphthalene	6.35	128	632646	199.2846624 ppb		99
33) 4-Chloroaniline	6.39	65	76412	193.0750728 ppb		93
34) Hexachloro-1,3-butadiene	6.47	225	110342	217.3539660 ppb		97
35) Caprolactam	6.73	113	62969	223.4415039 ppb		82
36) 4-Chloro-3-methylphenol	6.89	107	219562	236.7718780 ppb		99
37) 2-Methylnaphthalene	7.07	142	458780	208.6366538 ppb		97
38) 1-Methylnaphthalene	7.17	142	463752	226.9371673 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 05.D Vial: 7
Acq On : 27 Oct 2014 2:11 pm Operator: 280
Sample : LCSD 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 27 14:53 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

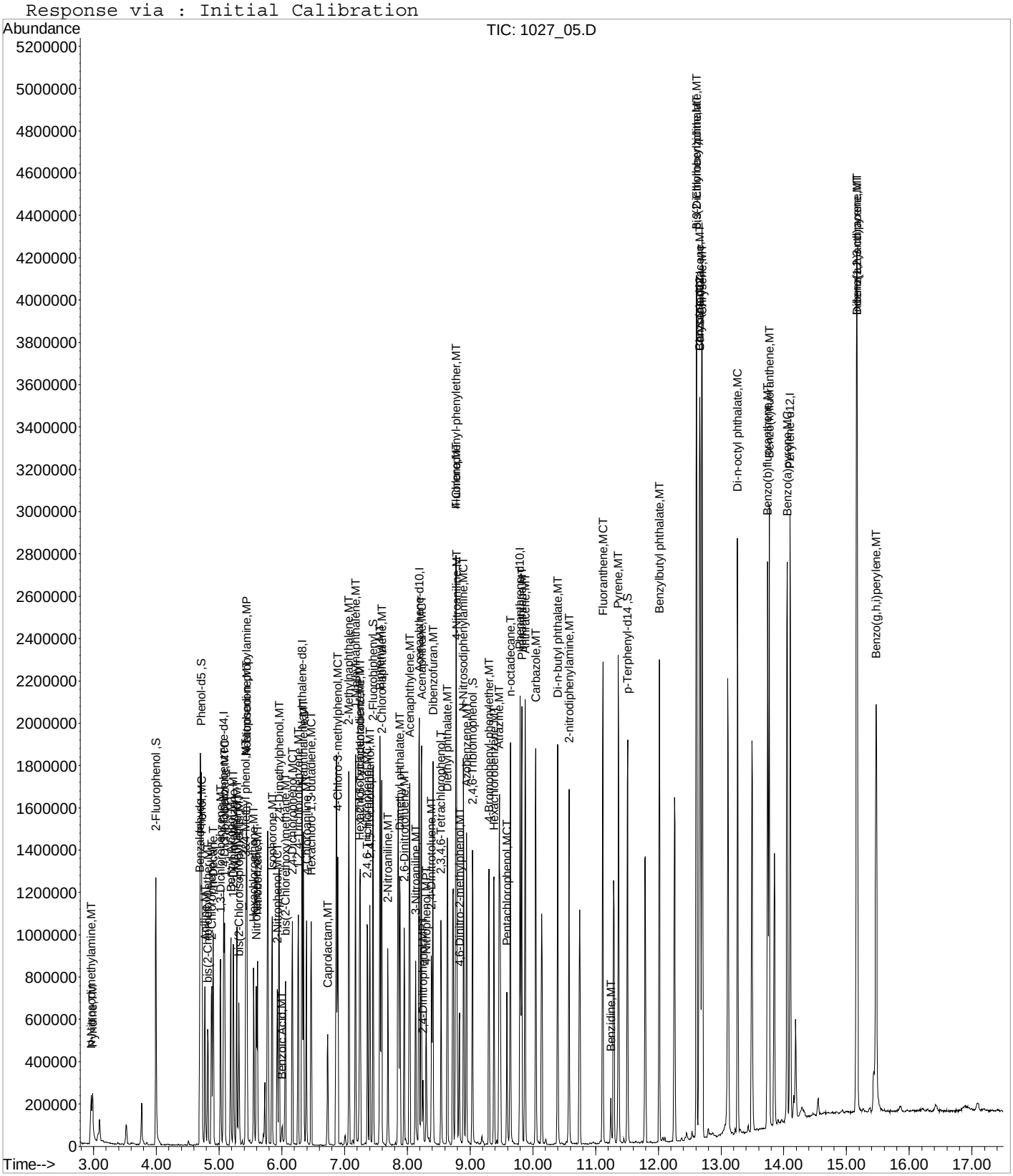
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	201484	236.2116721	ppb		99
41)	Hexachlorocyclopentadiene	7.24	237	81211	162.6386334	ppb		96
42)	2,4,6-Trichlorophenol	7.37	196	144696	252.0282600	ppb		94
43)	2,4,5-Trichlorophenol	7.40	196	157687	245.7973012	ppb		95
45)	Biphenyl	7.56	154	602092	227.7175001	ppb		99
46)	2-Chloronaphthalene	7.59	162	476316	225.4903693	ppb		98
47)	2-Nitroaniline	7.69	138	165953	236.8303535	ppb	#	94
48)	Acenaphthylene	8.04	152	778647	223.8179640	ppb		99
49)	Dimethyl phthalate	7.89	163	549347	230.2106642	ppb		95
50)	2,6-Dinitrotoluene	7.95	165	125708	234.2867309	ppb		84
51)	3-Nitroaniline	8.13	138	131173	209.5654248	ppb		92
52)	Acenaphthene	8.23	153	484612	219.6996909	ppb		99
53)	2,4-Dinitrophenol	8.25	184	41722	227.9640774	ppb	#	89
54)	Dibenzofuran	8.41	168	689617	224.8756587	ppb		95
55)	2,4-Dinitrotoluene	8.39	165	171482	238.7768609	ppb		96
56)	2,3,4,6-Tetrachlorophenol	8.54	232	111929	288.6587569	ppb		79
57)	4-Nitrophenol	8.30	139	105250	234.1638200	ppb		90
58)	Fluorene	8.78	166	568804	224.5000780	ppb		100
59)	4-Chlorophenyl-phenylether	8.77	204	245108	222.1163242	ppb		92
60)	Diethyl phthalate	8.64	149	605930	233.9462888	ppb		98
61)	4-Nitroaniline	8.79	138	149486	233.4771296	ppb	#	88
62)	Azobenzene	8.94	77	508549	191.9186624	ppb		96
63)	Atrazine	9.47	200	162733	294.9679656	ppb	#	84
65)	4,6-Dinitro-2-methylphenol	8.83	198	86537	258.7673975	ppb		95
66)	N-Nitrosodiphenylamine	8.90	169	464647	218.5046962	ppb		99
68)	4-Bromophenyl-phenylether	9.30	248	142552	218.9098438	ppb		94
69)	Hexachlorobenzene	9.38	284	162050	220.6717222	ppb		97
70)	n-octadecane	9.64	55	92249	206.6915323	ppb		96
71)	Pentachlorophenol	9.59	266	75847	235.3682213	ppb		95
72)	Phenanthrene	9.82	178	796375	214.3015891	ppb		96
73)	Anthracene	9.88	178	834836	219.4544362	ppb		99
74)	Carbazole	10.05	167	817140	220.7445623	ppb		99
75)	Di-n-butyl phthalate	10.39	149	1152443	228.7850730	ppb		99
76)	2-nitrodiphenylamine	10.58	167	238698	278.3688560	ppb	#	100
77)	Fluoranthene	11.12	202	952201	217.2878936	ppb		100
79)	Benzidine	11.24	184	99313	60.2156906	ppb		99
80)	Pyrene	11.36	202	987459	216.4836021	ppb		98
82)	Benzylbutyl phthalate	12.02	149	563784	229.0964366	ppb		97
83)	3,3-Dichlorobenzidine	12.61	252	311419	190.8618585	ppb		99
84)	Benzo(a)anthracene	12.66	228	1002904	211.9213585	ppb		96
85)	Chrysene	12.70	228	925816	215.7141854	ppb		96
86)	bis(2-Ethylhexyl)phthalate	12.61	149	884088	231.7961744	ppb		96
87)	Di-n-octyl phthalate	13.26	149	1513970	228.7367839	ppb		99
89)	Benzo(b)fluoranthene	13.74	252	1119009	214.6946134	ppb		96
90)	Benzo(k)fluoranthene	13.77	252	999581	211.2625112	ppb		98
91)	Benzo(a)pyrene	14.05	252	1078077	220.9485963	ppb		94
92)	Indeno(1,2,3-cd)pyrene	15.16	276	1280908	238.3980024	ppb		91
93)	Dibenz(a,h)anthracene	15.16	278	1081461	241.1152370	ppb		93
94)	Benzo(g,h,i)perylene	15.47	276	1051434	235.8134464	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 05.D Vial: 7
Acq On : 27 Oct 2014 2:11 pm Operator: 280
Sample : LCSD 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 27 14:53 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 06.D Vial: 8
Acq On : 27 Oct 2014 2:33 pm Operator: 280
Sample : BLANK 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:13 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	158551	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	662988	8000.00 ppb	0.00
40) Acenaphthene-d10	8.18	164	430013	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	750226	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	890039	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	990532	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	4.00	112	364611	434.4335407 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 65.23%		
7) Phenol-d5	4.71	99	432657	422.8445501 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 63.49%		
23) Nitrobenzene-d5	5.59	82	195737	203.1528128 ppb	0.00
Spiked Amount 333.000	Range 22 - 129		Recovery = 61.01%		
44) 2-Fluorobiphenyl	7.45	172	490187	224.6006142 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 67.45%		
67) 2,4,6-Tribromophenol	9.04	330	114767	449.0356609 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 67.42%		
81) p-Terphenyl-d14	11.50	244	687163	211.8777492 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 63.63%		

Target Compounds					Qvalue
2) Pyridine	2.93	79	65	N.D.	
3) N-Nitrosodimethylamine	2.97	42	1488	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.71	63	1444	N.D.	
8) Phenol	4.71	94	192	N.D.	
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	283	N.D.	
11) n-Decane	4.91	41	7469	13.6750959 ppb #	96
12) 1,3-Dichlorobenzene	5.08	146	85	N.D.	
13) 1,4-Dichlorobenzene	5.08	146	85	N.D.	
14) Benzyl Alcohol	5.19	79	366	N.D.	
15) 1,2-Dichlorobenzene	5.22	146	56	N.D.	
16) bis(2-Chloroisopropyl)ethe	5.14	121	62	N.D.	
17) 2-Methylphenol	5.19	108	251	N.D.	
18) Hexachloroethane	5.72	117	60	N.D.	
19) N-Nitrosodi-n-propylamine	5.42	70	194	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D.	
21) Acetophenone	5.12	105	126	N.D.	
24) Nitrobenzene	5.62	77	73	N.D.	
25) Isophorone	5.87	82	63	N.D.	
26) 2-Nitrophenol	5.78	139	836	N.D.	
27) 2,4-Dimethylphenol	5.78	107	112	N.D.	
28) bis(2-Chlorethoxy)methane	6.33	93	526	N.D.	
29) 2,4-Dichlorophenol	6.37	162	54	N.D.	
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.53	180	55	N.D.	
32) Naphthalene	6.34	128	4271	N.D.	
33) 4-Chloroaniline	6.32	65	1165	N.D.	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.76	113	57	N.D.	
36) 4-Chloro-3-methylphenol	6.87	107	82	N.D.	
37) 2-Methylnaphthalene	7.07	142	76	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\102714\1027 06.D Vial: 8
Acq On : 27 Oct 2014 2:33 pm Operator: 280
Sample : BLANK 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:13 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

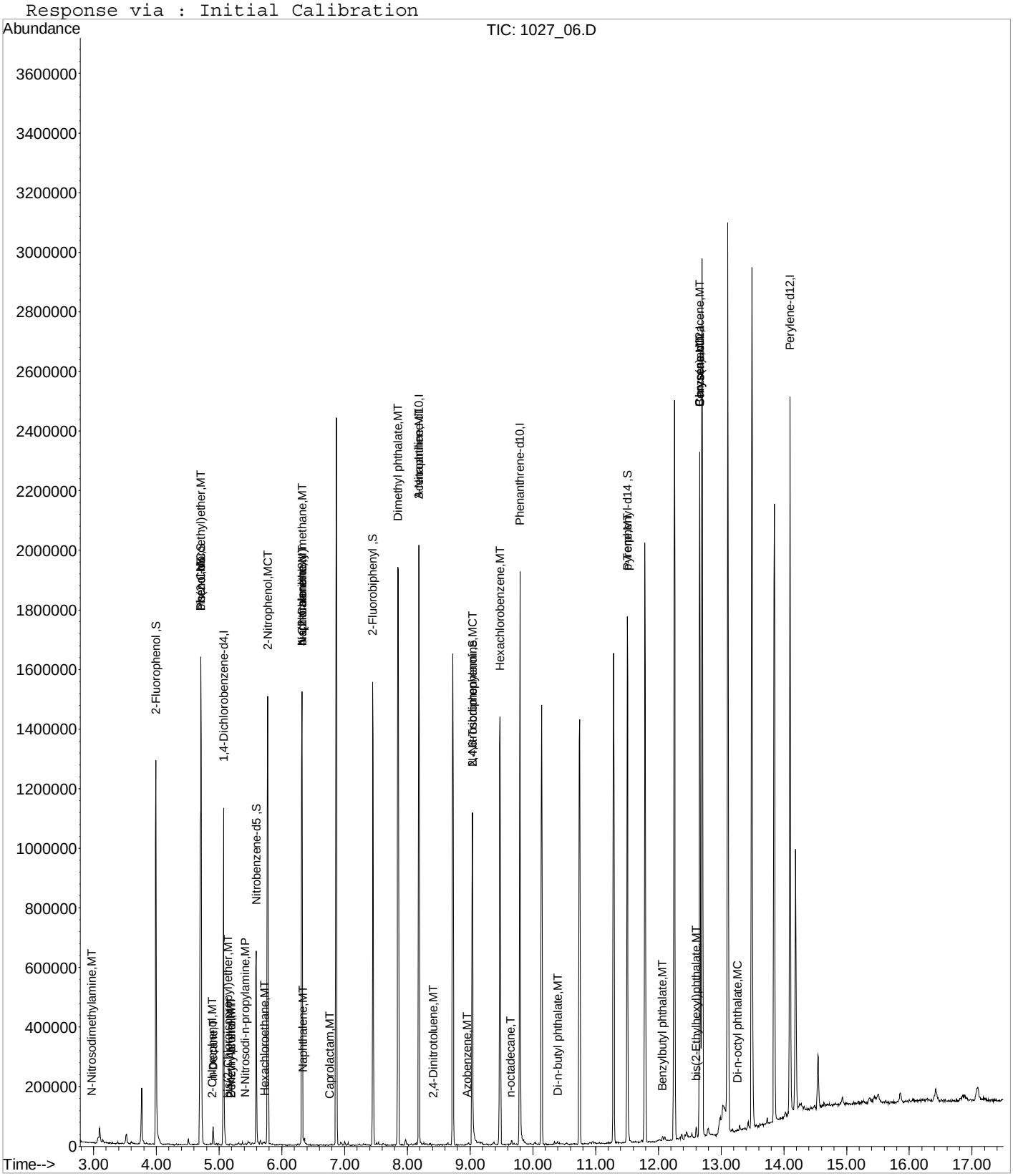
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.06	237	54	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.57	154	263	N.D.	
46)	2-Chloronaphthalene	7.53	162	60	N.D.	
47)	2-Nitroaniline	7.79	138	66	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.85	163	1060	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	8.18	138	469	N.D.	
52)	Acenaphthene	8.21	153	103	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	d
54)	Dibenzofuran	8.26	168	57	N.D.	
55)	2,4-Dinitrotoluene	8.41	165	310	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	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	8.95	138	56	N.D.	
62)	Azobenzene	8.95	77	377	N.D.	
63)	Atrazine	10.15	200	56	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	9.03	169	4210	N.D.	
68)	4-Bromophenyl-phenylether	9.47	248	54	N.D.	
69)	Hexachlorobenzene	9.48	284	2271	N.D.	
70)	n-octadecane	9.64	55	1136	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D.	d
72)	Phenanthrene	9.82	178	68	N.D.	
73)	Anthracene	9.82	178	68	N.D.	
74)	Carbazole	0.00	167	0	N.D.	
75)	Di-n-butyl phthalate	10.39	149	5384	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.36	202	56	N.D.	
79)	Benzidine	0.00	184	0	N.D.	d
80)	Pyrene	11.50	202	2072	N.D.	
82)	Benzylbutyl phthalate	12.06	149	3562	N.D.	
83)	3,3-Dichlorobenzidine	12.61	252	58	N.D.	
84)	Benzo(a)anthracene	12.66	228	1964	N.D.	
85)	Chrysene	12.66	228	1964	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.61	149	12760	N.D.	
87)	Di-n-octyl phthalate	13.26	149	4046	N.D.	
89)	Benzo(b)fluoranthene	13.75	252	254	N.D.	
90)	Benzo(k)fluoranthene	13.75	252	329	N.D.	
91)	Benzo(a)pyrene	14.15	252	293	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.18	276	128	N.D.	
93)	Dibenz(a,h)anthracene	15.16	278	54	N.D.	
94)	Benzo(g,h,i)perylene	15.46	276	69	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 06.D Vial: 8
Acq On : 27 Oct 2014 2:33 pm Operator: 280
Sample : BLANK 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:13 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 09.D Vial: 11
Acq On : 27 Oct 2014 3:39 pm Operator: 280
Sample : MS 1x WG750215 L729012-02 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:15 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	153430	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	649703	8000.00 ppb	0.00
40) Acenaphthene-d10	8.18	164	428742	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	738251	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	852113	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	976132	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	4.00	112	380518	468.5193013 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 70.35%		
7) Phenol-d5	4.72	99	449208	453.6732634 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 68.12%		
23) Nitrobenzene-d5	5.59	82	208201	220.5075779 ppb	0.00
Spiked Amount 333.000	Range 22 - 129		Recovery = 66.22%		
44) 2-Fluorobiphenyl	7.45	172	491190	225.7273705 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 67.79%		
67) 2,4,6-Tribromophenol	9.04	330	130047	517.0734139 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 77.64%		
81) p-Terphenyl-d14	11.50	244	574451	185.0079622 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 55.56%		

Target Compounds						Qvalue
2) Pyridine	2.98	79	191226	147.6930390 ppb		93
3) N-Nitrosodimethylamine	2.96	42	115208	175.1918391 ppb		84
5) Aniline	4.78	66	99156	202.1189528 ppb		99
6) bis(2-Chloroethyl)ether	4.82	63	134243	197.2864853 ppb		92
8) Phenol	4.73	94	237997	233.0954916 ppb		95
9) Benzaldehyde	4.69	105	35235	76.8870128 ppb		90
10) 2-Chlorophenol	4.88	128	219543	246.9503002 ppb		96
11) n-Decane	4.91	41	120457	227.9075245 ppb		99
12) 1,3-Dichlorobenzene	5.02	146	232550	236.4859410 ppb		97
13) 1,4-Dichlorobenzene	5.09	146	234378	233.3919769 ppb		98
14) Benzyl Alcohol	5.18	79	178327	239.1493777 ppb		97
15) 1,2-Dichlorobenzene	5.23	146	227261	236.4450920 ppb		99
16) bis(2-Chloroisopropyl)ethe	5.32	121	66012	229.3054883 ppb		98
17) 2-Methylphenol	5.28	108	180945	225.1140019 ppb		98
18) Hexachloroethane	5.55	117	103232	239.2282962 ppb		95
19) N-Nitrosodi-n-propylamine	5.43	70	139106	205.9308903 ppb		92
20) 3&4-Methyl phenol	5.42	107	241402	261.6357626 ppb		94
21) Acetophenone	5.44	105	294571	257.5007211 ppb	#	82
24) Nitrobenzene	5.61	77	223882	240.3697222 ppb		98
25) Isophorone	5.84	82	410215	251.2957295 ppb		99
26) 2-Nitrophenol	5.93	139	126125	272.7145000 ppb		91
27) 2,4-Dimethylphenol	5.96	107	238618	273.1204829 ppb		97
28) bis(2-Chlorethoxy)methane	6.05	93	231827	216.3223629 ppb		96
29) 2,4-Dichlorophenol	6.17	162	197695	269.5775044 ppb		98
30) Benzoic Acid	5.95	105	11292m	97.2879621 ppb		
31) 1,2,4-Trichlorobenzene	6.26	180	198092	241.9593306 ppb		97
32) Naphthalene	6.35	128	645424	225.8649246 ppb		99
33) 4-Chloroaniline	6.39	65	75759	212.6617812 ppb		90
34) Hexachloro-1,3-butadiene	6.47	225	113011	247.3079110 ppb		98
35) Caprolactam	6.73	113	61987	244.3589447 ppb	#	79
36) 4-Chloro-3-methylphenol	6.89	107	214945	257.5080804 ppb		98
37) 2-Methylnaphthalene	7.07	142	454066	229.4012018 ppb		97
38) 1-Methylnaphthalene	7.17	142	464934	252.7561399 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 09.D Vial: 11
Acq On : 27 Oct 2014 3:39 pm Operator: 280
Sample : MS 1x WG750215 L729012-02 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:15 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

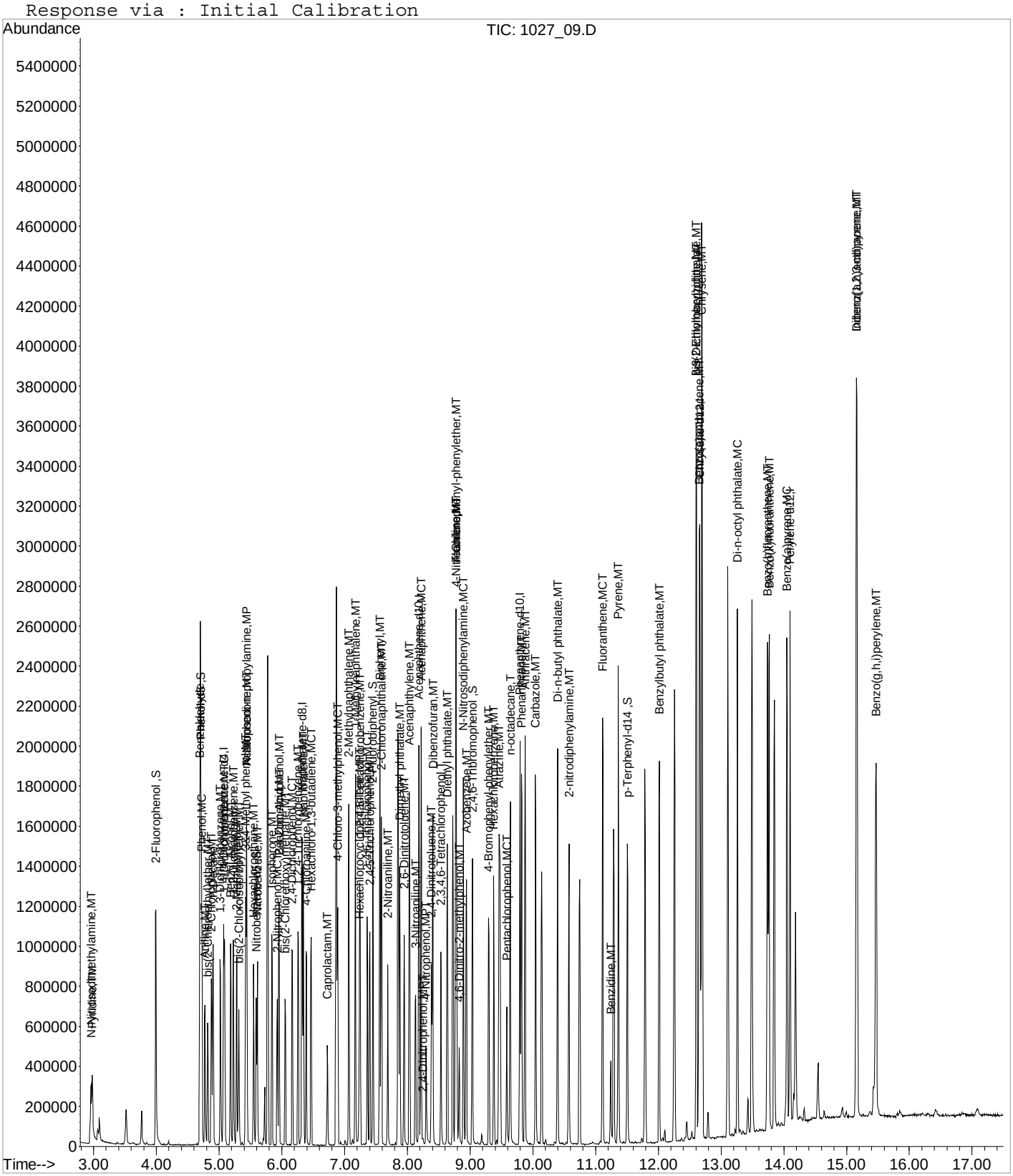
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	198477	258.5005968	ppb		98
41)	Hexachlorocyclopentadiene	7.23	237	77770	171.6995607	ppb		98
42)	2,4,6-Trichlorophenol	7.36	196	144450	277.3693626	ppb		96
43)	2,4,5-Trichlorophenol	7.40	196	156971	269.7421851	ppb		96
45)	Biphenyl	7.56	154	590100	246.0409483	ppb		99
46)	2-Chloronaphthalene	7.59	162	473739	247.2408305	ppb		96
47)	2-Nitroaniline	7.69	138	165230	259.9497387	ppb		94
48)	Acenaphthylene	8.03	152	785576	248.9377500	ppb		99
49)	Dimethyl phthalate	7.88	163	548449	253.3746470	ppb		97
50)	2,6-Dinitrotoluene	7.95	165	128554	264.1305265	ppb		89
51)	3-Nitroaniline	8.13	138	132762	233.8283656	ppb	#	83
52)	Acenaphthene	8.22	153	477369	238.5820257	ppb		98
53)	2,4-Dinitrophenol	8.25	184	4637	97.2275465	ppb	#	80
54)	Dibenzofuran	8.41	168	685732	246.5114708	ppb		95
55)	2,4-Dinitrotoluene	8.38	165	167387	256.9470589	ppb		94
56)	2,3,4,6-Tetrachlorophenol	8.54	232	108575	308.6883066	ppb		85
57)	4-Nitrophenol	8.30	139	94830	232.7609340	ppb		90
58)	Fluorene	8.78	166	548273	238.5607221	ppb		99
59)	4-Chlorophenyl-phenylether	8.77	204	234995	234.7631025	ppb		93
60)	Diethyl phthalate	8.64	149	589737	251.0153661	ppb		98
61)	4-Nitroaniline	8.78	138	142032	244.5559614	ppb	#	88
62)	Azobenzene	8.94	77	489517	203.6575003	ppb		97
63)	Atrazine	9.46	200	156684	313.0920925	ppb	#	84
65)	4,6-Dinitro-2-methylphenol	8.83	198	60329	214.0280638	ppb		91
66)	N-Nitrosodiphenylamine	8.90	169	446213	237.6180857	ppb		99
68)	4-Bromophenyl-phenylether	9.30	248	136161	236.7796339	ppb		92
69)	Hexachlorobenzene	9.38	284	154444	238.1597283	ppb		98
70)	n-octadecane	9.64	55	82090	208.2816021	ppb		98
71)	Pentachlorophenol	9.58	266	71920	249.2462107	ppb		94
72)	Phenanthrene	9.82	178	760810	231.8374662	ppb		97
73)	Anthracene	9.88	178	798719	237.7589354	ppb		99
74)	Carbazole	10.04	167	789565	241.5355544	ppb		99
75)	Di-n-butyl phthalate	10.39	149	1084212	243.7373455	ppb		99
76)	2-nitrodiphenylamine	10.58	167	224416	296.3639112	ppb	#	100
77)	Fluoranthene	11.11	202	915192	236.4932491	ppb		99
79)	Benzidine	11.24	184	175840	95.8949314	ppb		98
80)	Pyrene	11.36	202	943746	233.6526663	ppb		99
82)	Benzylbutyl phthalate	12.02	149	512226	235.0590036	ppb		96
83)	3,3-Dichlorobenzidine	12.60	252	312213	216.0900198	ppb		99
84)	Benzo(a)anthracene	12.65	228	930791	222.1146609	ppb		97
85)	Chrysene	12.69	228	860269	226.3591116	ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.61	149	795279	235.4723767	ppb		99
87)	Di-n-octyl phthalate	13.26	149	1365521	232.9843817	ppb		100
89)	Benzo(b)fluoranthene	13.74	252	1103451	236.2678839	ppb		97
90)	Benzo(k)fluoranthene	13.77	252	848036	200.0243208	ppb		96
91)	Benzo(a)pyrene	14.05	252	984542	225.1851690	ppb		95
92)	Indeno(1,2,3-cd)pyrene	15.16	276	1205545	250.3987580	ppb		89
93)	Dibenz(a,h)anthracene	15.16	278	1009504	251.1804927	ppb		94
94)	Benzo(g,h,i)perylene	15.47	276	998488	249.9156592	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 09.D Vial: 11
Acq On : 27 Oct 2014 3:39 pm Operator: 280
Sample : MS 1x WG750215 L729012-02 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:15 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 10.D Vial: 12
Acq On : 27 Oct 2014 4:01 pm Operator: 280
Sample : MSD 1x WG750215 L729021-02 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:15 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	158151	8000.00	ppb	0.00
22) Naphthalene-d8	6.32	136	662095	8000.00	ppb	0.00
40) Acenaphthene-d10	8.18	164	425494	8000.00	ppb	-0.01
64) Phenanthrene-d10	9.79	188	752723	8000.00	ppb	-0.01
78) Chrysene-d12	12.67	240	936828	8000.00	ppb	0.00
88) Perylene-d12	14.10	264	1032979	8000.00	ppb	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	4.00	112	378849	452.5397884	ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 67.95%			
7) Phenol-d5	4.72	99	443897	434.9268867	ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 65.30%			
23) Nitrobenzene-d5	5.59	82	208198	216.3773636	ppb	0.00
Spiked Amount 333.000	Range 22 - 129		Recovery = 64.98%			
44) 2-Fluorobiphenyl	7.46	172	491275	227.4898160	ppb	0.00
Spiked Amount 333.000	Range 35 - 129		Recovery = 68.32%			
67) 2,4,6-Tribromophenol	9.04	330	130840	510.2244466	ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 76.61%			
81) p-Terphenyl-d14	11.50	244	579481	169.7516324	ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 50.98%			

Target Compounds							Qvalue
2) Pyridine	2.98	79	186361	139.6389135	ppb		95
3) N-Nitrosodimethylamine	2.96	42	117476	173.3080467	ppb	#	80
5) Aniline	4.78	66	96608	191.0466711	ppb		97
6) bis(2-Chloroethyl)ether	4.82	63	133645	190.5446436	ppb		95
8) Phenol	4.73	94	240067	228.1041565	ppb		95
9) Benzaldehyde	4.69	105	34313	72.6399849	ppb		92
10) 2-Chlorophenol	4.88	128	216117	235.8398755	ppb		96
11) n-Decane	4.91	41	113376	208.1067153	ppb	#	100
12) 1,3-Dichlorobenzene	5.02	146	229421	226.3395742	ppb		98
13) 1,4-Dichlorobenzene	5.09	146	232153	224.2754422	ppb		97
14) Benzyl Alcohol	5.18	79	183349	238.5442980	ppb		97
15) 1,2-Dichlorobenzene	5.23	146	220947	223.0138535	ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	65135	219.5049502	ppb		95
17) 2-Methylphenol	5.28	108	181890	219.5346555	ppb		99
18) Hexachloroethane	5.55	117	100958	226.9746144	ppb		97
19) N-Nitrosodi-n-propylamine	5.43	70	144143	207.0177260	ppb		94
20) 3&4-Methyl phenol	5.42	107	245320	257.9452541	ppb		94
21) Acetophenone	5.44	105	293629	249.0151380	ppb	#	81
24) Nitrobenzene	5.61	77	220968	232.8008344	ppb		97
25) Isophorone	5.85	82	416967	250.6512186	ppb		98
26) 2-Nitrophenol	5.93	139	124206	263.5385730	ppb		92
27) 2,4-Dimethylphenol	5.96	107	244338	274.4331995	ppb		96
28) bis(2-Chlorethoxy)methane	6.06	93	236628	216.6696590	ppb		95
29) 2,4-Dichlorophenol	6.17	162	199334	266.7251135	ppb		99
30) Benzoic Acid	5.96	105	10395m	94.5548660	ppb		
31) 1,2,4-Trichlorobenzene	6.26	180	195439	234.2508812	ppb		97
32) Naphthalene	6.35	128	646609	222.0444853	ppb		98
33) 4-Chloroaniline	6.39	65	77773	214.2291819	ppb		90
34) Hexachloro-1,3-butadiene	6.47	225	113345	243.3964400	ppb		96
35) Caprolactam	6.73	113	61316	237.1897964	ppb		81
36) 4-Chloro-3-methylphenol	6.89	107	219543	258.0938598	ppb		97
37) 2-Methylnaphthalene	7.07	142	453995	225.0724502	ppb		97
38) 1-Methylnaphthalene	7.17	142	469874	250.6607795	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 10.D Vial: 12
Acq On : 27 Oct 2014 4:01 pm Operator: 280
Sample : MSD 1x WG750215 L729021-02 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:15 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

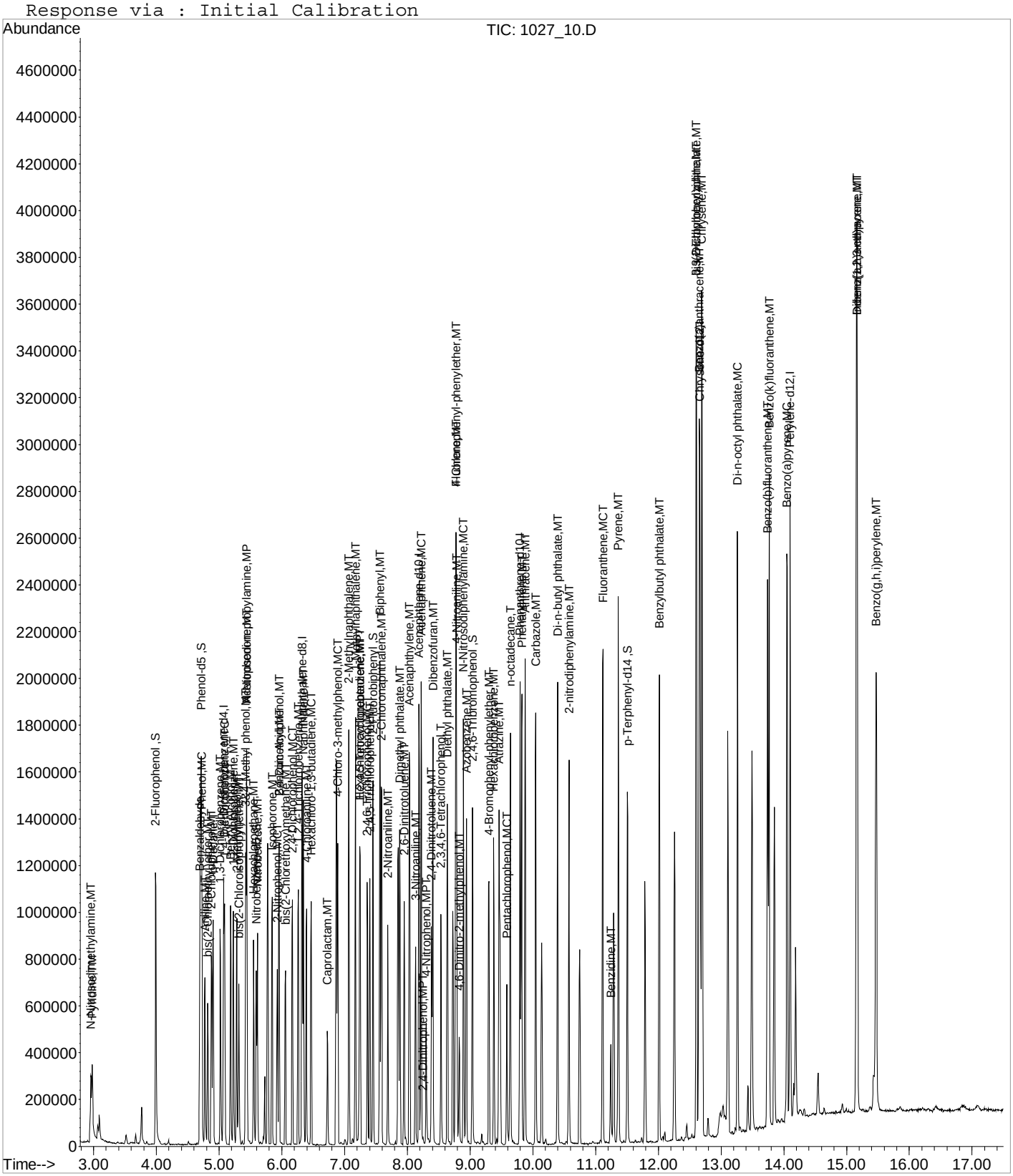
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	205016	262.0195419	ppb		100
41)	Hexachlorocyclopentadiene	7.24	237	82226	182.9232201	ppb		98
42)	2,4,6-Trichlorophenol	7.36	196	144768	280.1019331	ppb		98
43)	2,4,5-Trichlorophenol	7.40	196	161967	280.4520207	ppb		96
45)	Biphenyl	7.56	154	603884	253.7101779	ppb		99
46)	2-Chloronaphthalene	7.59	162	476577	250.6205755	ppb		99
47)	2-Nitroaniline	7.69	138	167700	265.8496753	ppb		95
48)	Acenaphthylene	8.03	152	794739	253.7637992	ppb		100
49)	Dimethyl phthalate	7.88	163	560291	260.8213529	ppb		98
50)	2,6-Dinitrotoluene	7.95	165	128666	266.3786365	ppb		90
51)	3-Nitroaniline	8.13	138	133341	236.6408435	ppb		86
52)	Acenaphthene	8.22	153	473622	238.5162460	ppb		99
53)	2,4-Dinitrophenol	8.25	184	4203	95.6452768	ppb		91
54)	Dibenzofuran	8.41	168	682264	247.1369950	ppb		94
55)	2,4-Dinitrotoluene	8.38	165	166395	257.3740677	ppb		91
56)	2,3,4,6-Tetrachlorophenol	8.54	232	108629	311.1993714	ppb		85
57)	4-Nitrophenol	8.30	139	95905	236.7126494	ppb		91
58)	Fluorene	8.78	166	546194	239.4702654	ppb		98
59)	4-Chlorophenyl-phenylether	8.77	204	233615	235.1659999	ppb		94
60)	Diethyl phthalate	8.64	149	586163	251.3986390	ppb		98
61)	4-Nitroaniline	8.79	138	142375	247.0178728	ppb	#	86
62)	Azobenzene	8.94	77	488775	204.9010594	ppb		96
63)	Atrazine	9.46	200	158805	319.7526926	ppb	#	85
65)	4,6-Dinitro-2-methylphenol	8.83	198	64350	221.7685203	ppb		92
66)	N-Nitrosodiphenylamine	8.90	169	450926	235.5111150	ppb		99
68)	4-Bromophenyl-phenylether	9.30	248	136625	233.0186302	ppb		93
69)	Hexachlorobenzene	9.38	284	151451	229.0542149	ppb		97
70)	n-octadecane	9.64	55	80637	200.6614164	ppb		99
71)	Pentachlorophenol	9.58	266	71694	244.7398426	ppb		88
72)	Phenanthrene	9.82	178	771689	230.6314750	ppb		97
73)	Anthracene	9.88	178	800535	233.7179206	ppb		99
74)	Carbazole	10.05	167	811358	243.4302584	ppb		99
75)	Di-n-butyl phthalate	10.39	149	1085822	239.4061825	ppb		99
76)	2-nitrodiphenylamine	10.58	167	231211	299.4669160	ppb	#	100
77)	Fluoranthene	11.12	202	909461	230.4939181	ppb		99
79)	Benzidine	11.24	184	180613	91.2027888	ppb		100
80)	Pyrene	11.36	202	948590	213.6148733	ppb		98
82)	Benzylbutyl phthalate	12.02	149	518712	216.5104664	ppb		97
83)	3,3-Dichlorobenzidine	12.60	252	326249	205.3857199	ppb		99
84)	Benzo(a)anthracene	12.65	228	938176	203.6323145	ppb		96
85)	Chrysene	12.69	228	870618	208.3668748	ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.61	149	792337	213.3868822	ppb		98
87)	Di-n-octyl phthalate	13.26	149	1386472	215.1675908	ppb		100
89)	Benzo(b)fluoranthene	13.74	252	1083697	219.2686627	ppb		94
90)	Benzo(k)fluoranthene	13.77	252	901716	200.9811602	ppb		96
91)	Benzo(a)pyrene	14.05	252	1002602	216.6961326	ppb		92
92)	Indeno(1,2,3-cd)pyrene	15.16	276	1218167	239.0961771	ppb		92
93)	Dibenz(a,h)anthracene	15.16	278	1036815	243.7789450	ppb		92
94)	Benzo(g,h,i)perylene	15.47	276	997045	235.8209784	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 10.D Vial: 12
Acq On : 27 Oct 2014 4:01 pm Operator: 280
Sample : MSD 1x WG750215 L729021-02 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 28 11:15 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 18.D Vial: 20
Acq On : 27 Oct 2014 6:56 pm Operator: 280
Sample : L729026-01 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:51 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	150273	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	637596	8000.00 ppb	0.00
40) Acenaphthene-d10	8.18	164	408872	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	717788	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	882350	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	985557	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	312851	393.2956631 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 59.05%		
7) Phenol-d5	4.71	99	375387	387.0831445 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 58.12%		
23) Nitrobenzene-d5	5.59	82	166937	180.1617537 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 54.10%		
44) 2-Fluorobiphenyl	7.45	172	439321	211.7021791 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 63.57%		
67) 2,4,6-Tribromophenol	9.04	330	112510	460.0985297 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 69.08%		
81) p-Terphenyl-d14	11.50	244	626903	194.9818016 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 58.55%		

Target Compounds					Qvalue
2) Pyridine	2.97	79	62	N.D.	
3) N-Nitrosodimethylamine	2.96	42	409	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	4.73	94	144	N.D.	
9) Benzaldehyde	4.70	105	4117	9.1725251 ppb #	40
10) 2-Chlorophenol	4.88	128	178	N.D.	
11) n-Decane	4.91	41	5932	11.4592737 ppb #	97
12) 1,3-Dichlorobenzene	5.02	146	110	N.D.	
13) 1,4-Dichlorobenzene	5.08	146	60	N.D.	
14) Benzyl Alcohol	5.19	79	465	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	5.18	108	513	N.D.	
18) Hexachloroethane	5.43	117	58	N.D.	
19) N-Nitrosodi-n-propylamine	5.46	70	557	N.D.	
20) 3&4-Methyl phenol	5.18	107	154	N.D.	
21) Acetophenone	5.78	105	716	N.D.	
24) Nitrobenzene	5.59	77	775	N.D.	
25) Isophorone	5.88	82	57	N.D.	
26) 2-Nitrophenol	5.77	139	712	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	6.32	93	467	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	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	6.34	128	4439	N.D.	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.72	113	68	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	7.06	142	54	N.D.	
38) 1-Methylnaphthalene	7.17	142	66	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 18.D Vial: 20
Acq On : 27 Oct 2014 6:56 pm Operator: 280
Sample : L729026-01 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:51 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

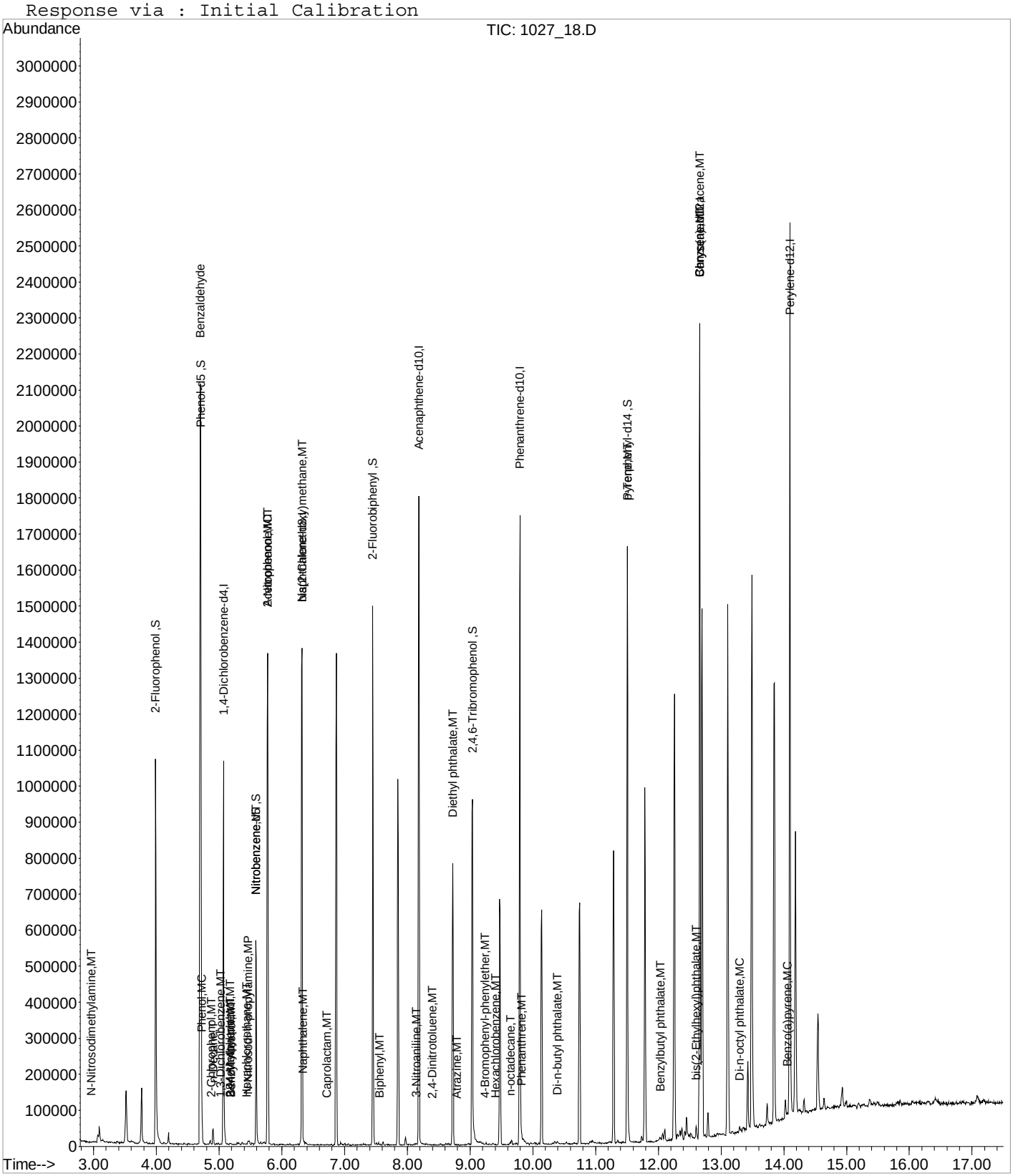
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.56	154	232	N.D.	
46)	2-Chloronaphthalene	7.53	162	69	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.88	163	66	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	8.15	138	83	N.D.	
52)	Acenaphthene	8.18	153	60	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	8.40	165	62	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	8.73	166	55	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.72	149	6686	2.9841247 ppb	92
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	8.96	77	53	N.D.	
63)	Atrazine	8.79	200	65	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d	
68)	4-Bromophenyl-phenylether	9.23	248	55	N.D.	
69)	Hexachlorobenzene	9.41	284	63	N.D.	
70)	n-octadecane	9.64	55	691	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	9.82	178	382	N.D.	
73)	Anthracene	9.95	178	66	N.D.	
74)	Carbazole	9.79	167	148	N.D.	
75)	Di-n-butyl phthalate	10.39	149	4513	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.11	202	207	N.D.	
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.50	202	2370	N.D.	
82)	Benzylbutyl phthalate	12.04	149	3648	N.D.	
83)	3,3-Dichlorobenzidine	12.59	252	53	N.D.	
84)	Benzo(a)anthracene	12.66	228	2551	N.D.	
85)	Chrysene	12.66	228	2551	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	11293	3.2291341 ppb	90
87)	Di-n-octyl phthalate	13.30	149	2303	N.D.	
89)	Benzo(b)fluoranthene	13.74	252	285	N.D.	
90)	Benzo(k)fluoranthene	13.76	252	181	N.D.	
91)	Benzo(a)pyrene	14.05	252	361	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.35	276	69	N.D.	
93)	Dibenz(a,h)anthracene	15.16	278	55	N.D.	
94)	Benzo(g,h,i)perylene	15.48	276	56	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 18.D Vial: 20
Acq On : 27 Oct 2014 6:56 pm Operator: 280
Sample : L729026-01 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:51 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 19.D Vial: 21
Acq On : 27 Oct 2014 7:18 pm Operator: 280
Sample : L729026-02 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	152754	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	636370	8000.00 ppb	0.00
40) Acenaphthene-d10	8.18	164	411018	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	724134	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	922564	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	1000053	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	325620	402.6994598 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 60.47%		
7) Phenol-d5	4.71	99	398097	403.8334617 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 60.64%		
23) Nitrobenzene-d5	5.59	82	182980	197.8561278 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 59.42%		
44) 2-Fluorobiphenyl	7.45	172	468845	224.7497320 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 67.49%		
67) 2,4,6-Tribromophenol	9.04	330	120562	488.7057163 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 73.38%		
81) p-Terphenyl-d14	11.50	244	659234	196.1000548 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 58.89%		

Target Compounds					Qvalue
2) Pyridine	2.90	79	82	N.D.	
3) N-Nitrosodimethylamine	2.92	42	186	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	4.72	94	367	N.D.	
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	350	N.D.	
11) n-Decane	4.90	41	7249	13.7759772 ppb #	90
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	5.18	79	320	N.D.	
15) 1,2-Dichlorobenzene	5.24	146	61	N.D.	
16) bis(2-Chloroisopropyl)ethe	5.18	121	165	N.D.	
17) 2-Methylphenol	5.18	108	271	N.D.	
18) Hexachloroethane	5.56	117	73	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	5.59	107	62	N.D.	
21) Acetophenone	5.44	105	219	N.D.	
24) Nitrobenzene	5.59	77	557	N.D.	
25) Isophorone	5.85	82	133	N.D.	
26) 2-Nitrophenol	5.77	139	447	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	6.32	93	496	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	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	6.34	128	4525	N.D.	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.72	113	261	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	7.07	142	59	N.D.	
38) 1-Methylnaphthalene	7.17	142	60	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 19.D Vial: 21
Acq On : 27 Oct 2014 7:18 pm Operator: 280
Sample : L729026-02 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

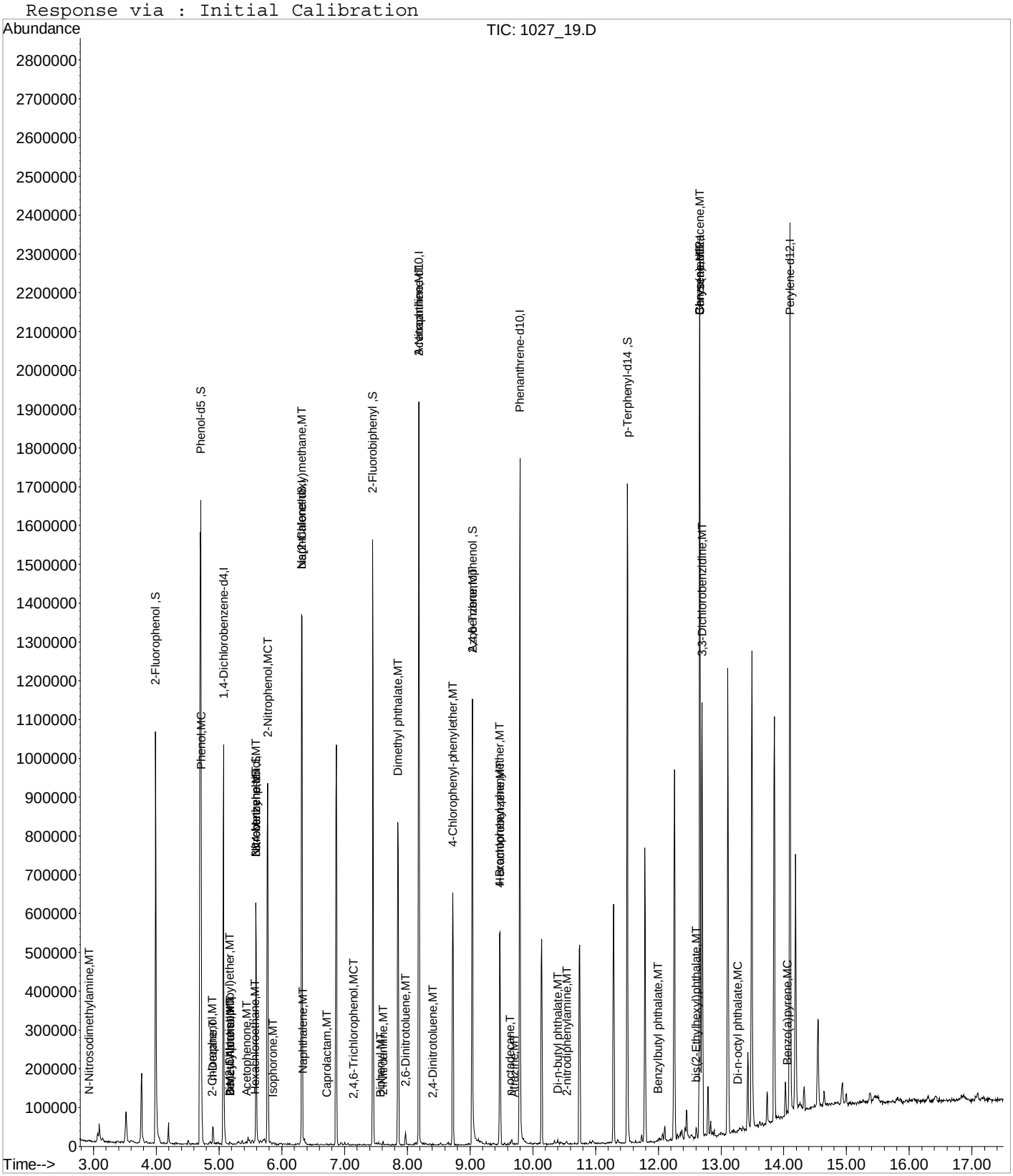
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	7.14	196	57	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.56	154	188	N.D.	
46)	2-Chloronaphthalene	7.46	162	57	N.D.	
47)	2-Nitroaniline	7.61	138	54	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.86	163	371	N.D.	
50)	2,6-Dinitrotoluene	7.97	165	54	N.D.	
51)	3-Nitroaniline	8.18	138	153	N.D.	
52)	Acenaphthene	8.22	153	61	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	8.40	168	62	N.D.	
55)	2,4-Dinitrotoluene	8.40	165	227	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	8.77	166	63	N.D.	
59)	4-Chlorophenyl-phenylether	8.73	204	82	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D. d	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	9.04	77	944	N.D.	
63)	Atrazine	9.69	200	55	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	9.47	248	122	N.D.	
69)	Hexachlorobenzene	9.48	284	934	N.D.	
70)	n-octadecane	9.64	55	539	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	9.82	178	176	N.D.	
73)	Anthracene	9.82	178	176	N.D.	
74)	Carbazole	9.79	167	171	N.D.	
75)	Di-n-butyl phthalate	10.39	149	5094	N.D.	
76)	2-nitrodiphenylamine	10.54	167	55	N.D.	
77)	Fluoranthene	11.11	202	135	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	11.36	202	144	N.D.	
82)	Benzylbutyl phthalate	12.00	149	607	N.D.	
83)	3,3-Dichlorobenzidine	12.70	252	457	N.D.	
84)	Benzo(a)anthracene	12.66	228	2320	N.D.	
85)	Chrysene	12.66	228	2320	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.61	149	10191	2.7870062 ppb	98
87)	Di-n-octyl phthalate	13.26	149	1350	N.D.	
89)	Benzo(b)fluoranthene	13.74	252	147	N.D.	
90)	Benzo(k)fluoranthene	13.77	252	153	N.D.	
91)	Benzo(a)pyrene	14.05	252	349	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.17	276	58	N.D.	
93)	Dibenz(a,h)anthracene	15.18	278	68	N.D.	
94)	Benzo(g,h,i)perylene	15.47	276	63	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 19.D Vial: 21
Acq On : 27 Oct 2014 7:18 pm Operator: 280
Sample : L729026-02 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 20.D Vial: 22
Acq On : 27 Oct 2014 7:39 pm Operator: 280
Sample : L729026-03 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	156997	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	663235	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	431496	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	768898	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	965074	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	1055027	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	314398	378.3127581 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 56.80%		
7) Phenol-d5	4.71	99	372231	367.3898670 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 55.16%		
23) Nitrobenzene-d5	5.59	82	170171	176.5524279 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 53.02%		
44) 2-Fluorobiphenyl	7.45	172	433546	197.9653331 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 59.45%		
67) 2,4,6-Tribromophenol	9.04	330	111066	424.0023994 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 63.66%		
81) p-Terphenyl-d14	11.50	244	597228	169.8299047 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 51.00%		

Target Compounds					Qvalue
2) Pyridine	2.99	79	152	N.D.	
3) N-Nitrosodimethylamine	2.93	42	247	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	4.72	94	260	N.D.	
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	299	N.D.	
11) n-Decane	4.90	41	5951	11.0036179 ppb #	94
12) 1,3-Dichlorobenzene	5.08	146	57	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D. d	
14) Benzyl Alcohol	5.19	79	557	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	5.17	121	120	N.D.	
17) 2-Methylphenol	5.19	108	575	N.D.	
18) Hexachloroethane	5.47	117	55	N.D.	
19) N-Nitrosodi-n-propylamine	5.41	70	77	N.D.	
20) 3&4-Methyl phenol	5.40	107	84	N.D.	
21) Acetophenone	5.78	105	875	N.D.	
24) Nitrobenzene	5.59	77	739	N.D.	
25) Isophorone	5.84	82	122	N.D.	
26) 2-Nitrophenol	5.77	139	742	N.D.	
27) 2,4-Dimethylphenol	5.77	107	140	N.D.	
28) bis(2-Chlorethoxy)methane	6.14	93	65	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	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	6.34	128	4649	N.D.	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.79	113	74	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	7.07	142	58	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\102714\1027 20.D Vial: 22
Acq On : 27 Oct 2014 7:39 pm Operator: 280
Sample : L729026-03 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

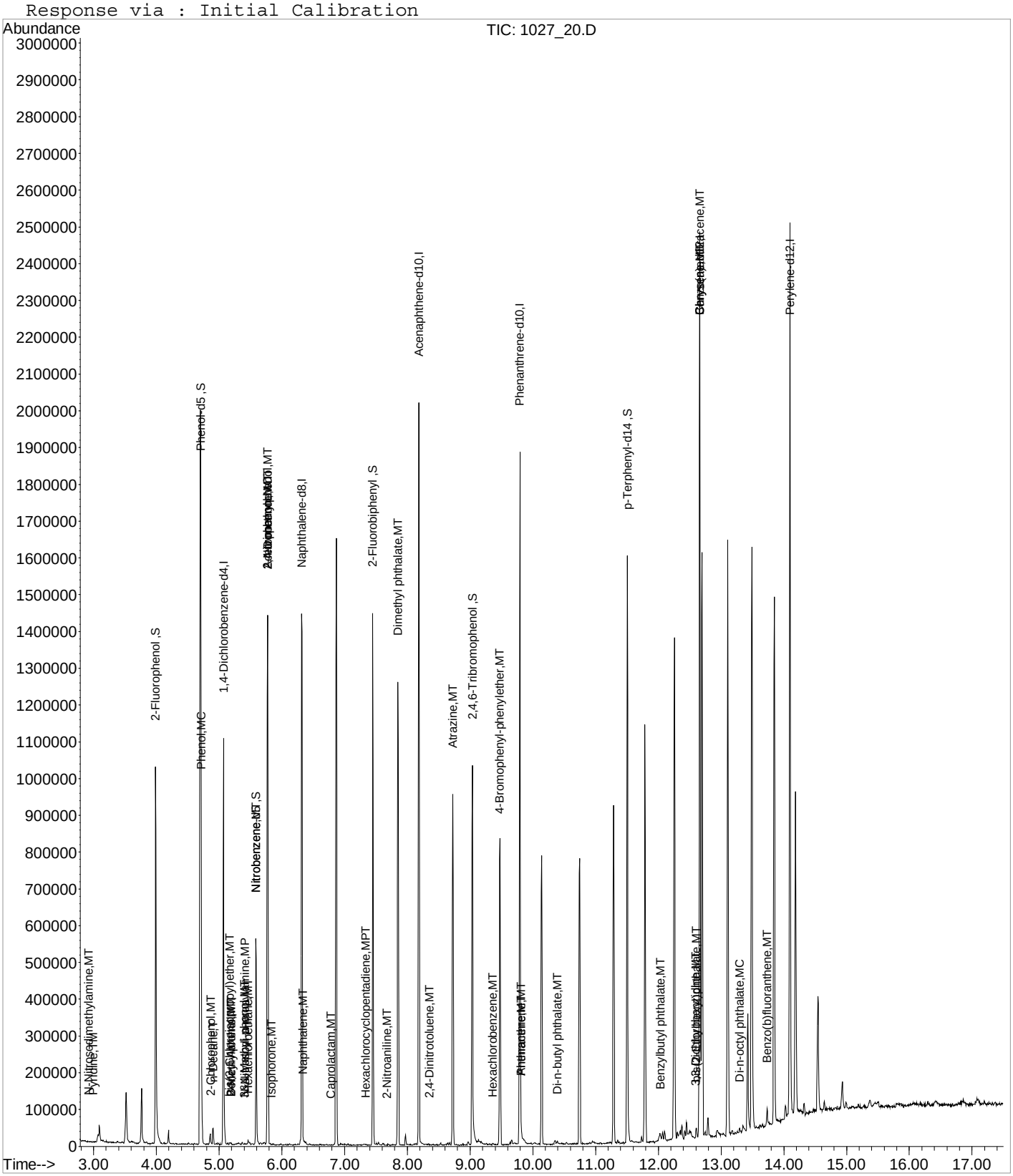
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.34	237	57	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.56	154	145	N.D.	
46)	2-Chloronaphthalene	7.54	162	60	N.D.	
47)	2-Nitroaniline	7.67	138	53	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.85	163	776	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	8.47	168	58	N.D.	
55)	2,4-Dinitrotoluene	8.36	165	68	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	0.00	149	0	N.D. d	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	8.97	77	56	N.D.	
63)	Atrazine	8.72	200	72	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	9.47	248	203	N.D.	
69)	Hexachlorobenzene	9.35	284	77	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	9.82	178	299	N.D.	
73)	Anthracene	9.82	178	299	N.D.	
74)	Carbazole	10.17	167	54	N.D.	
75)	Di-n-butyl phthalate	10.39	149	4537	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.37	202	69	N.D.	
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.37	202	69	N.D.	
82)	Benzylbutyl phthalate	12.04	149	4355	N.D.	
83)	3,3-Dichlorobenzidine	12.59	252	111	N.D.	
84)	Benzo(a)anthracene	12.66	228	2870	N.D.	
85)	Chrysene	12.66	228	2870	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	11336	2.9635814 ppb	91
87)	Di-n-octyl phthalate	13.30	149	7446	N.D.	
89)	Benzo(b)fluoranthene	13.74	252	421	N.D.	
90)	Benzo(k)fluoranthene	13.78	252	58	N.D.	
91)	Benzo(a)pyrene	14.04	252	186	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.19	276	74	N.D.	
93)	Dibenz(a,h)anthracene	15.16	278	112	N.D.	
94)	Benzo(g,h,i)perylene	15.70	276	70	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 20.D Vial: 22
Acq On : 27 Oct 2014 7:39 pm Operator: 280
Sample : L729026-03 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 21.D Vial: 23
Acq On : 27 Oct 2014 8:01 pm Operator: 280
Sample : L729026-05 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	144528	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	601182	8000.00 ppb	0.00
40) Acenaphthene-d10	8.18	164	384248	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	682103	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	838492	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	967342	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	304713	398.2919755 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 59.80%		
7) Phenol-d5	4.71	99	360344	386.3414369 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 58.01%		
23) Nitrobenzene-d5	5.59	82	165235	189.1261822 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 56.79%		
44) 2-Fluorobiphenyl	7.45	172	425066	217.9593419 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 65.45%		
67) 2,4,6-Tribromophenol	9.04	330	106020	456.2404159 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 68.50%		
81) p-Terphenyl-d14	11.50	244	580232	189.9054262 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 57.03%		

Target Compounds					Qvalue
2) Pyridine	3.17	79	54	N.D.	
3) N-Nitrosodimethylamine	2.94	42	175	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.71	63	1272	N.D.	
8) Phenol	4.72	94	315	N.D.	
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	126	N.D.	
11) n-Decane	4.91	41	5688	11.4246920 ppb #	87
12) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D. d	
14) Benzyl Alcohol	5.17	79	54	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	5.17	108	120	N.D.	
18) Hexachloroethane	5.47	117	64	N.D.	
19) N-Nitrosodi-n-propylamine	5.43	70	73	N.D.	
20) 3&4-Methyl phenol	5.20	107	63	N.D.	
21) Acetophenone	5.77	105	129	N.D.	
24) Nitrobenzene	5.59	77	689	N.D.	
25) Isophorone	5.86	82	116	N.D.	
26) 2-Nitrophenol	6.06	139	55	N.D.	
27) 2,4-Dimethylphenol	6.09	107	55	N.D.	
28) bis(2-Chlorethoxy)methane	6.32	93	409	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	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	6.34	128	3632	N.D.	
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. d	
36) 4-Chloro-3-methylphenol	6.76	107	57	N.D.	
37) 2-Methylnaphthalene	7.07	142	78	N.D.	
38) 1-Methylnaphthalene	7.17	142	264	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 21.D Vial: 23
Acq On : 27 Oct 2014 8:01 pm Operator: 280
Sample : L729026-05 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

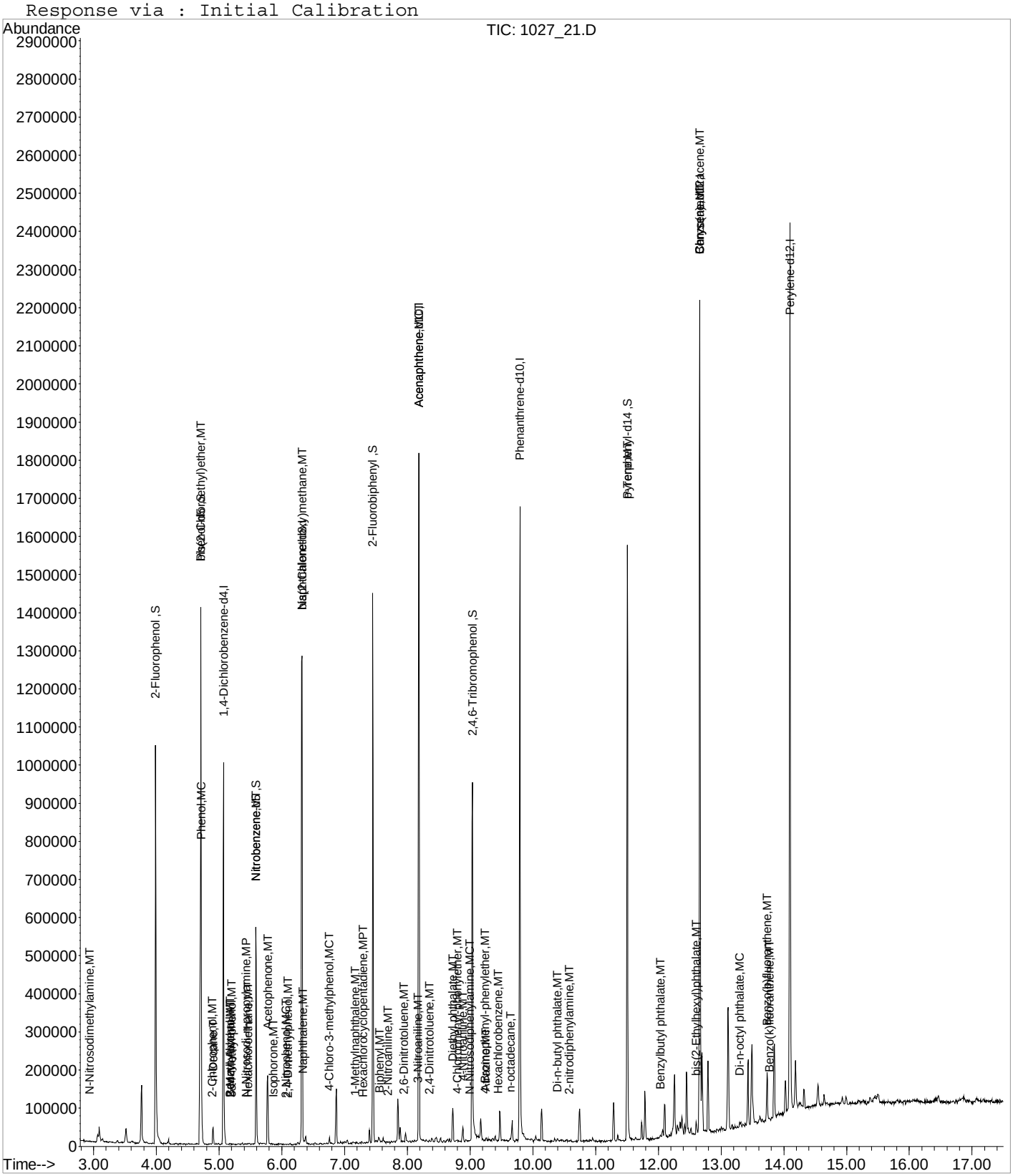
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.30	237	55	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.56	154	303	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	7.70	138	73	N.D.	
48)	Acenaphthylene	8.04	152	66	N.D.	
49)	Dimethyl phthalate	7.89	163	126	N.D.	
50)	2,6-Dinitrotoluene	7.94	165	70	N.D.	
51)	3-Nitroaniline	8.16	138	71	N.D.	
52)	Acenaphthene	8.18	153	123	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	8.40	168	56	N.D.	
55)	2,4-Dinitrotoluene	8.36	165	147	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	8.78	166	66	N.D.	
59)	4-Chlorophenyl-phenylether	8.80	204	66	N.D.	
60)	Diethyl phthalate	8.73	149	1002	N.D.	
61)	4-Nitroaniline	8.88	138	59	N.D.	
62)	Azobenzene	8.94	77	115	N.D.	
63)	Atrazine	9.26	200	65	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	8.99	169	176	N.D.	
68)	4-Bromophenyl-phenylether	9.24	248	66	N.D.	
69)	Hexachlorobenzene	9.44	284	71	N.D.	
70)	n-octadecane	9.64	55	499	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	9.93	178	73	N.D.	
73)	Anthracene	9.93	178	73	N.D.	
74)	Carbazole	10.04	167	55	N.D.	
75)	Di-n-butyl phthalate	10.39	149	4728	N.D.	
76)	2-nitrodiphenylamine	10.58	167	55	N.D.	
77)	Fluoranthene	11.13	202	54	N.D.	
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.50	202	2083	N.D.	
82)	Benzylbutyl phthalate	12.04	149	2737	N.D.	
83)	3,3-Dichlorobenzidine	12.58	252	56	N.D.	
84)	Benzo(a)anthracene	12.66	228	2227	N.D.	
85)	Chrysene	12.66	228	2227	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	13425	4.0395502 ppb	97
87)	Di-n-octyl phthalate	13.30	149	6392	N.D.	
89)	Benzo(b)fluoranthene	13.74	252	366	N.D.	
90)	Benzo(k)fluoranthene	13.77	252	381	N.D.	
91)	Benzo(a)pyrene	14.03	252	181	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.16	276	55	N.D.	
93)	Dibenz(a,h)anthracene	15.14	278	144	N.D.	
94)	Benzo(g,h,i)perylene	15.46	276	67	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 21.D Vial: 23
Acq On : 27 Oct 2014 8:01 pm Operator: 280
Sample : L729026-05 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:52 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 22.D Vial: 24
Acq On : 27 Oct 2014 8:23 pm Operator: 280
Sample : L729026-06 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:53 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.07	152	163024	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	666960	8000.00 ppb	0.00
40) Acenaphthene-d10	8.18	164	425868	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	760889	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	931749	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	1069628	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	335323	388.5745606 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 58.34%		
7) Phenol-d5	4.71	99	400422	380.6031462 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 57.15%		
23) Nitrobenzene-d5	5.59	82	183439	189.2550451 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 56.83%		
44) 2-Fluorobiphenyl	7.45	172	472343	218.5310794 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 65.62%		
67) 2,4,6-Tribromophenol	9.04	330	116861	450.8210715 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 67.69%		
81) p-Terphenyl-d14	11.50	244	651984	192.0315660 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 57.67%		

Target Compounds					Qvalue
2) Pyridine	2.96	79	65	N.D.	
3) N-Nitrosodimethylamine	2.93	42	83	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.72	63	1194	N.D.	
8) Phenol	4.72	94	295	N.D.	
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	155	N.D.	
11) n-Decane	4.91	41	6722	11.9697166 ppb #	92
12) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D. d	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	5.16	121	108	N.D.	
17) 2-Methylphenol	5.19	108	72	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	5.46	70	362	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D.	
21) Acetophenone	5.44	105	62	N.D.	
24) Nitrobenzene	5.59	77	751	N.D.	
25) Isophorone	5.84	82	164	N.D.	
26) 2-Nitrophenol	5.77	139	67	N.D.	
27) 2,4-Dimethylphenol	5.95	107	74	N.D.	
28) bis(2-Chlorethoxy)methane	6.08	93	53	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	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	6.34	128	3674	N.D.	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.90	113	64	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	7.07	142	125	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\102714\1027 22.D Vial: 24
Acq On : 27 Oct 2014 8:23 pm Operator: 280
Sample : L729026-06 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:53 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

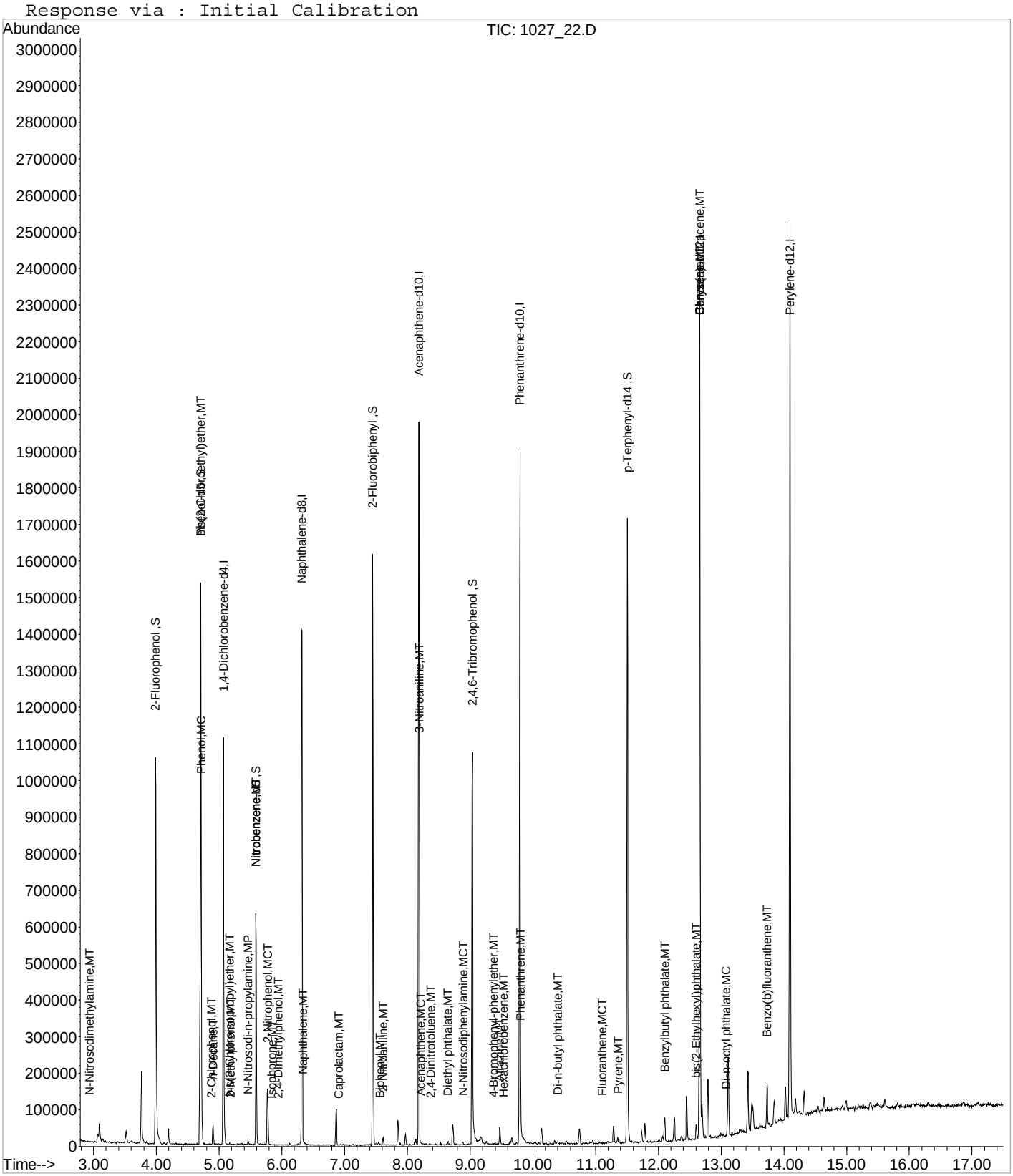
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.56	154	325	N.D.	
46)	2-Chloronaphthalene	7.53	162	82	N.D.	
47)	2-Nitroaniline	7.61	138	148	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	8.20	138	154	N.D.	
52)	Acenaphthene	8.22	153	180	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	8.40	168	145	N.D.	
55)	2,4-Dinitrotoluene	8.37	165	119	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	8.78	166	95	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.64	149	695	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	8.97	77	141	N.D.	
63)	Atrazine	9.47	200	54	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	8.90	169	205	N.D.	
68)	4-Bromophenyl-phenylether	9.37	248	56	N.D.	
69)	Hexachlorobenzene	9.54	284	108	N.D.	
70)	n-octadecane	0.00	55	0	N.D.	d
71)	Pentachlorophenol	0.00	266	0	N.D.	
72)	Phenanthrene	9.81	178	378	N.D.	
73)	Anthracene	9.94	178	57	N.D.	
74)	Carbazole	10.22	167	56	N.D.	
75)	Di-n-butyl phthalate	10.39	149	4527	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.11	202	358	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	11.36	202	320	N.D.	
82)	Benzylbutyl phthalate	12.11	149	1298	N.D.	
83)	3,3-Dichlorobenzidine	12.69	252	63	N.D.	
84)	Benzo(a)anthracene	12.66	228	2378	N.D.	
85)	Chrysene	12.66	228	2378	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	13864	3.7541123 ppb	96
87)	Di-n-octyl phthalate	13.07	149	1055	N.D.	
89)	Benzo(b)fluoranthene	13.74	252	613	N.D.	
90)	Benzo(k)fluoranthene	13.79	252	57	N.D.	
91)	Benzo(a)pyrene	14.04	252	309	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.18	276	60	N.D.	
93)	Dibenz(a,h)anthracene	15.16	278	88	N.D.	
94)	Benzo(g,h,i)perylene	15.49	276	55	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102714\1027 22.D Vial: 24
Acq On : 27 Oct 2014 8:23 pm Operator: 280
Sample : L729026-06 1x WG750215 15-0.5 Inst : BNAMS4
Misc : SOIL 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 12:53 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Calibration

Instrument: BNAMS4
Method: S804J16N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1016A_03.D	200	10/16/2014 5:01:00 PM
1016A_04.D	1000	10/16/2014 5:23:00 PM
1016A_05.D	2000	10/16/2014 5:44:00 PM
1016A_06.D	5000	10/16/2014 6:06:00 PM
1016A_02.D	10000	10/16/2014 4:39:00 PM
1016A_07.D	20000	10/16/2014 6:28:00 PM
1016A_08.D	30000	10/16/2014 6:50:00 PM
1016A_09.D	40000	10/16/2014 7:12:00 PM
1016A_10.D	50000	10/16/2014 7:33:00 PM
1016A_12.D	.2K1	10/16/2014 8:17:00 PM
1016A_13.D	1K1	10/16/2014 8:39:00 PM
1016A_14.D	2K1	10/16/2014 9:00:00 PM
1016A_15.D	5K1	10/16/2014 9:22:00 PM
1016A_11.D	10K1	10/16/2014 7:55:00 PM
1016A_16.D	20K1	10/16/2014 9:44:00 PM
1016A_17.D	30K1	10/16/2014 10:06:00 PM
1016A_18.D	40K1	10/16/2014 10:27:00 PM
1016A_19.D	50K1	10/16/2014 10:49:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH
Released By : Chris McCord
Date Released : 10/17/2014 10:26:46 AM
Run ID : 101614A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1016A_01	TUNE 50 PPM 14F19703								1	10/16/14 1618	
2	1016A_02	MSTD SVMS 10K PPB 14G09881	S804J16N						1	1	10/16/14 1639	"8270 Primary Calibration"
3	1016A_03	STD SVMS 200 PPB 14G09881	S804J16N						1	1	10/16/14 1701	"8270 Primary Calibration"
4	1016A_03 MRL	MRL SVMS 200 PPB 14G09881	S804J16N						1	1	10/16/14 1701	"8270 Primary Calibration"
5	1016A_04	STD SVMS 1K PPB 14G09881	S804J16N						1	1	10/16/14 1723	"8270 Primary Calibration"
6	1016A_05	STD SVMS 2K PPB 14G09881	S804J16N						1	1	10/16/14 1744	"8270 Primary Calibration"
7	1016A_05 MRL	MRL SVMS 2K PPB 14G09881	S804J16N						1	1	10/16/14 1744	"8270 Primary Calibration"
8	1016A_06	STD SVMS 5K PPB 14G09881	S804J16N						1	1	10/16/14 1806	"8270 Primary Calibration"
9	1016A_07	STD SVMS 20K PPB 14G09881	S804J16N						1	1	10/16/14 1828	"8270 Primary Calibration"
10	1016A_08	STD SVMS 30K PPB 14G09881	S804J16N						1	1	10/16/14 1850	"8270 Primary Calibration"
11	1016A_09	STD SVMS 40K PPB 14G09881	S804J16N						1	1	10/16/14 1912	"8270 Primary Calibration"
12	1016A_10	STD SVMS 50K PPB 14G09881	S804J16N						1	1	10/16/14 1933	"8270 Primary Calibration"
13	1016A_11	MSTD TCL 10K1 PPB 14G09882	S804J16N						1	1	10/16/14 1955	"8270 TCL Calibration"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH
Released By : Chris McCord
Date Released : 10/17/2014 10:26:46 AM
Run ID : 101614A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
14	1016A_12	STD TCL .2K1 PPB 14G09882	S804J16N						1	1	10/16/14 2017	"8270 TCL Calibration"
15	1016A_13	STD TCL 1K1 PPB 14G09882	S804J16N						1	1	10/16/14 2039	"8270 TCL Calibration"
16	1016A_14	STD TCL 2K1 PPB 14G09882	S804J16N						1	1	10/16/14 2100	"8270 TCL Calibration"
17	1016A_14 MRL	MRL TCL 2K1 PPB 14G09882	S804J16N						1	1	10/16/14 2100	"8270 TCL Calibration"
18	1016A_15	STD TCL 5K1 PPB 14G09882	S804J16N						1	1	10/16/14 2122	"8270 TCL Calibration"
19	1016A_16	STD TCL 20K1 PPB 14G09882	S804J16N						1	1	10/16/14 2144	"8270 TCL Calibration"
20	1016A_17	STD TCL 30K1 PPB 14G09882	S804J16N						1	1	10/16/14 2206	"8270 TCL Calibration"
21	1016A_18	STD TCL 40K1 PPB 14G09882	S804J16N						1	1	10/16/14 2227	"8270 TCL Calibration"
22	1016A_19	STD TCL 50K1 PPB 14G09882	S804J16N						1	1	10/16/14 2249	"8270 TCL Calibration"
23	1016A_20	SSCV SVMS 10K PPB 14C29003	S804J16N						1	1	10/16/14 2311	"8270 sscv"

Mint Miner 2.6.4 Directory Scan: z:\101614A

17 Oct 2014 12:02

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101614A\1016A_01.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_01.D					
5	Scanned	TA(1)	280	BNAMS4	TUNE 50 PPM 14F19703 (DFTPP)
Scan File Path: z:\101614A\1016A_02.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_02.D					
14	Scanned	M(4), D(10)	280	BNAMS4	MSTD SVMS 10K PPB 14G09881 (8270 Primar
Scan File Path: z:\101614A\1016A_03.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_03.D					
9	Scanned	D(7), M(2)	280	BNAMS4	STD SVMS 200 PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_03MRL.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_03MRL.D					
29	Scanned	D(14), M(4), MT(2), ENR(1)	280	BNAMS4	MRL SVMS 200 PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_04.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_04.D					
7	Scanned	D(7)	280	BNAMS4	STD SVMS 1K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_05.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_05.D					
8	Scanned	D(8)	280	BNAMS4	STD SVMS 2K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_05MRL.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_05MRL.D					
55	Scanned	D(16), QM(1), MR(3), MP(4), M(4), MM(1), ENR(1)	280	BNAMS4	MRL SVMS 2K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_06.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_06.D					
12	Scanned	D(10), M(2)	280	BNAMS4	STD SVMS 5K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_07.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_07.D					
10	Scanned	D(10)	280	BNAMS4	STD SVMS 20K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_08.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_08.D					
10	Scanned	D(10)	280	BNAMS4	STD SVMS 30K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_09.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_09.D					
11	Scanned	D(10), M(1)	280	BNAMS4	STD SVMS 40K PPB 14G09881 (8270 Primary C

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101614A\1016A_10.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_10.D					
11	Scanned	D(10), M(1)	280	BNAMS4	STD SVMS 50K PPB 14G09881 (8270 Primary (
Scan File Path: z:\101614A\1016A_11.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_11.D					
245	Scanned	D(121), DS(10), DC(16), DK(17), DP(6), DB(10), M(5), MT(2), MR(2)	280	BNAMS4	MSTD TCL 10K1 PPB 14G09882 (8270 TCL Ca
Scan File Path: z:\101614A\1016A_12.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_12.D					
103	Scanned	D(55), DS(3), DC(8), DK(6), DP(1), DB(6)	280	BNAMS4	STD TCL .2K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_13.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_13.D					
116	Scanned	D(59), DS(4), DC(8), DK(8), DP(1), DB(6), MR(1), M(1)	280	BNAMS4	STD TCL 1K1 PPB 14G09882 (8270 TCL Calibr
Scan File Path: z:\101614A\1016A_14.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_14.D					
103	Scanned	D(52), DS(4), DC(8), DK(8), DP(1), DB(6)	280	BNAMS4	STD TCL 2K1 PPB 14G09882 (8270 TCL Calibr
Scan File Path: z:\101614A\1016A_14MRL.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_14MRL.D					
208	Scanned	D(105), DS(8), DC(16), DK(16), DP(2), DB(12), ENR(1)	280	BNAMS4	MRL TCL 2K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_15.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_15.D					
98	Scanned	D(52), DS(3), DC(8), DK(9), DP(1), DB(5)	280	BNAMS4	STD TCL 5K1 PPB 14G09882 (8270 TCL Calibr
Scan File Path: z:\101614A\1016A_16.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_16.D					
114	Scanned	D(64), DS(5), DC(9), DK(9), DP(2), DB(5)	280	BNAMS4	STD TCL 20K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_17.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_17.D					
104	Scanned	D(57), DS(3), DC(10), DK(8), DP(1), DB(5)	280	BNAMS4	STD TCL 30K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_18.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_18.D					
118	Scanned	D(61), DS(4), DC(9), DK(7), DP(1), DB(6), MR(1), M(1)	280	BNAMS4	STD TCL 40K1 PPB 14G09882 (8270 TCL Calib

Mint Miner 2.6.4 Directory Scan: z:\101614A

17 Oct 2014 12:02

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101614A\1016A_19.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_19.D					
125	Scanned	D(64), DS(5), DC(9), DK(9), DP(2), DB(6), MR(1), M(1)	280	BNAMS4	STD TCL 50K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_20.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_20.D					
1	Scanned	ENR(1)	280	BNAMS4	SSCV SVMS 10K PPB 14C29003 (8270 sscv)
Scan File Path: z:\101614A\1016A_21.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_21.D					
0	Scanned		280	BNAMS4	MRL SVMS 500 PPB 14G09881 (8270 Primary

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)
MM	=	More than 3 manual integrations of the same analyte	MP	=	Manual integration of an SPCC
MR	=	Manual integration with before/after ratio <10%	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

ScanSummary.rpt

Total Files Scanned	24	Beginning Analyzed Date	10/16/2014 4:18:00PM
Methods	0	Ending Analyzed Date	10/16/2014 11:33:00PM
Samples	23	Analyzed Range	7 hours, 15 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 2

Operators 1 Intruments 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: TUNEC.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

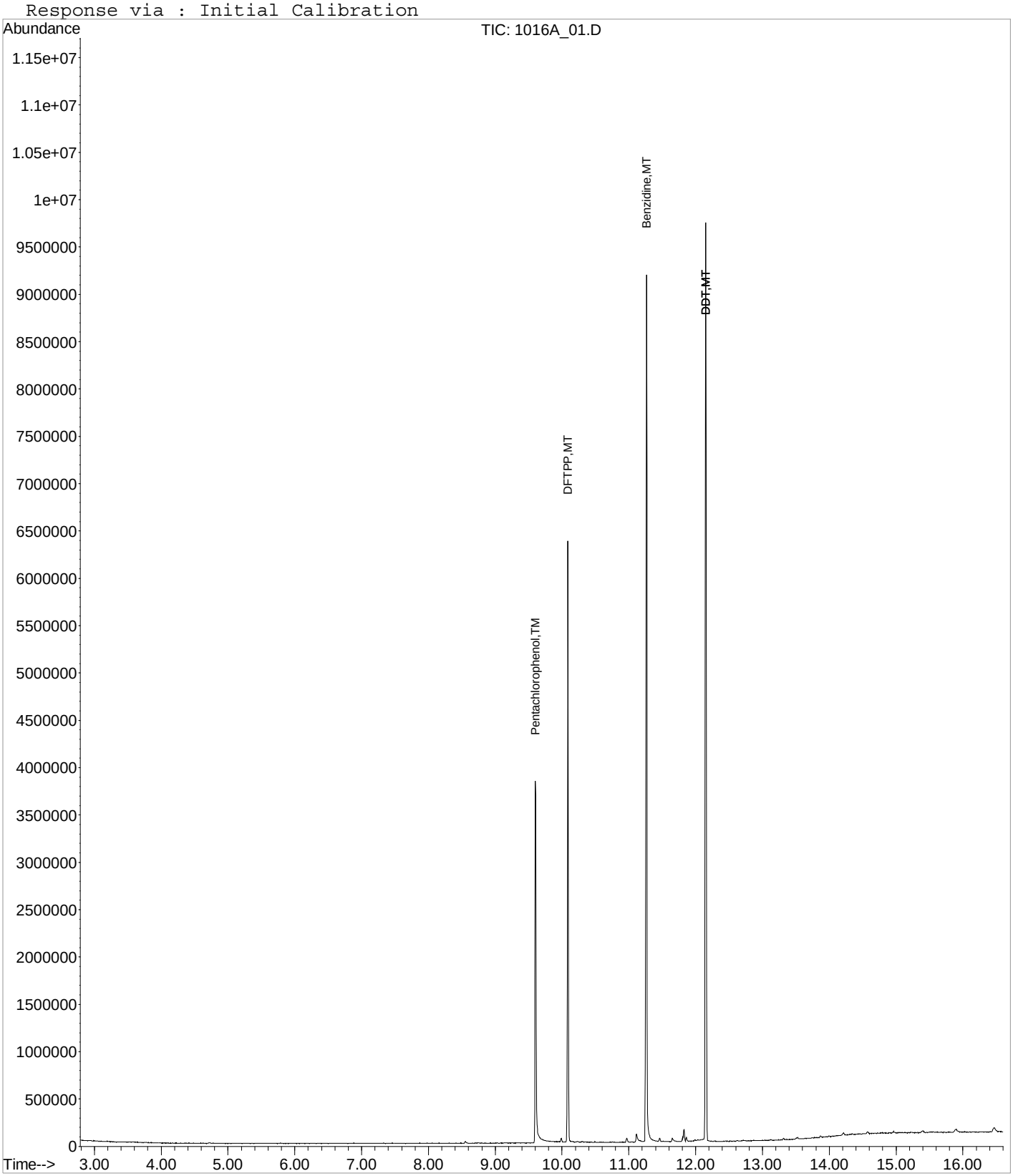
Target Compounds					Qvalue
1) Pentachlorophenol	9.61	264	292685	21.0884261 ug/mL	100
2) DFTPP	10.09	198	696436	29.1726602 ug/mL	100
3) Benzidine	11.26	184	4049969	27.5445061 ug/mL	100
4) DDT	12.15	TIC	9807246	149.7239177 ug/ml	100
5) DDT	12.15	235	1882713	139.9139580 ug/mL	100

(#) = qualifier out of range (m) = manual integration

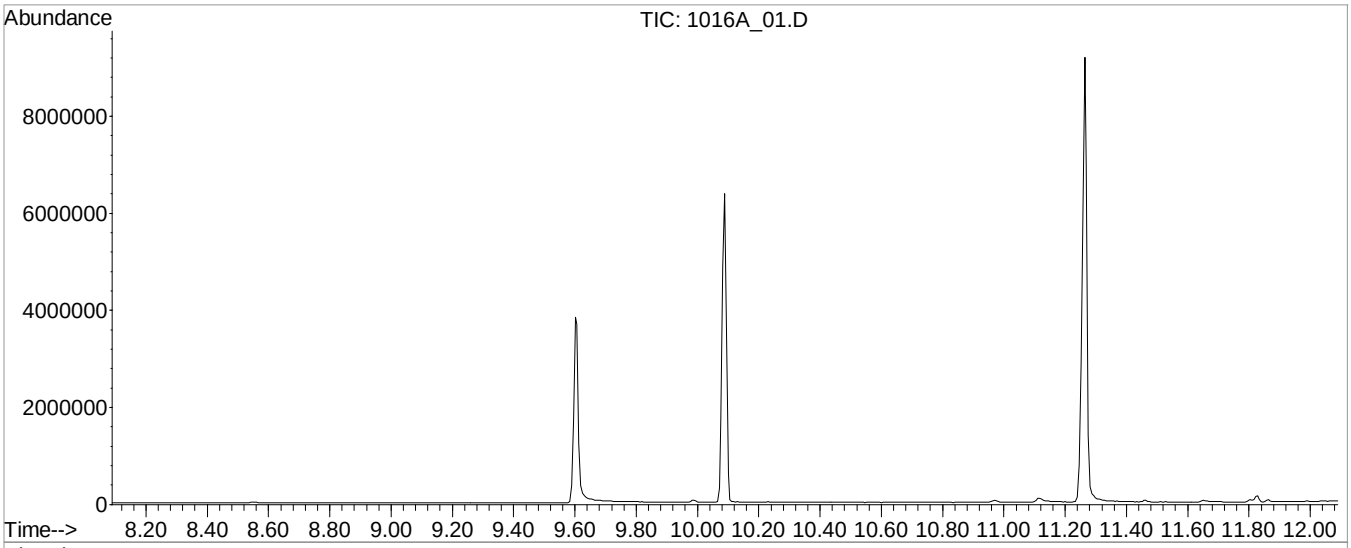
Quantitation Report (QT Reviewed)

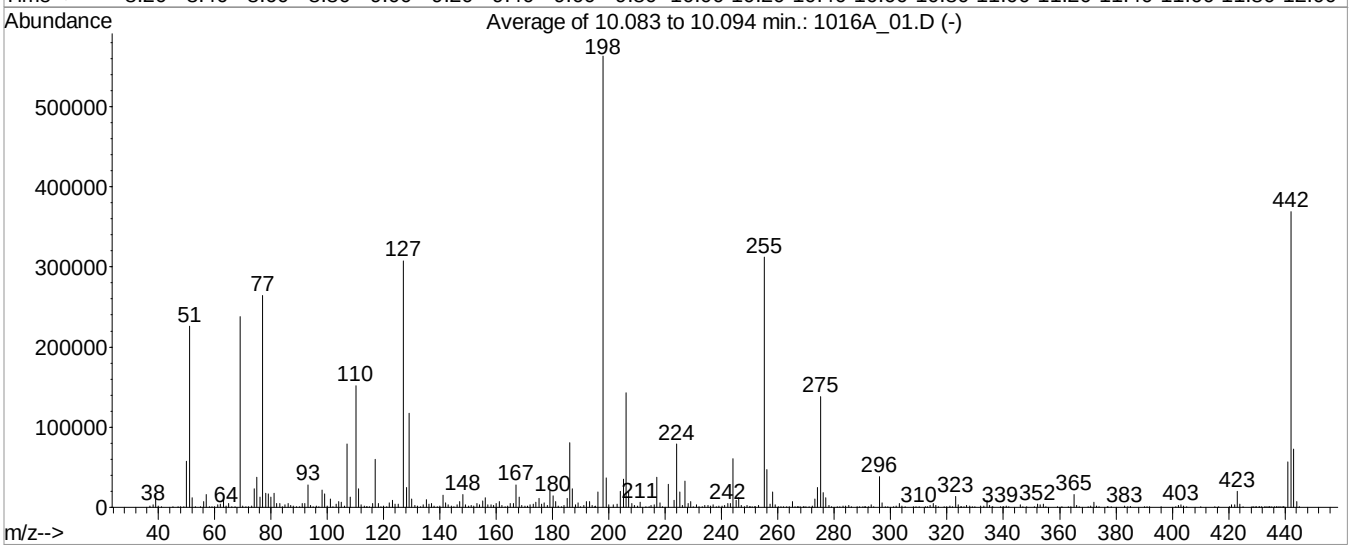
Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: TUNEC.RES

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA

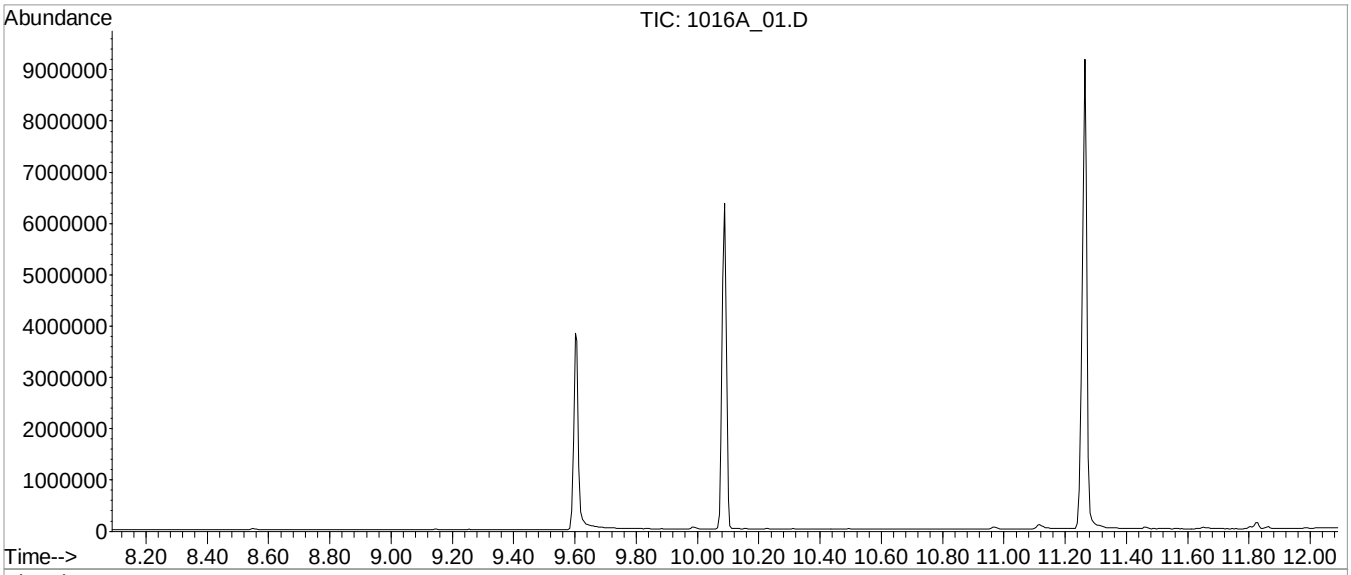


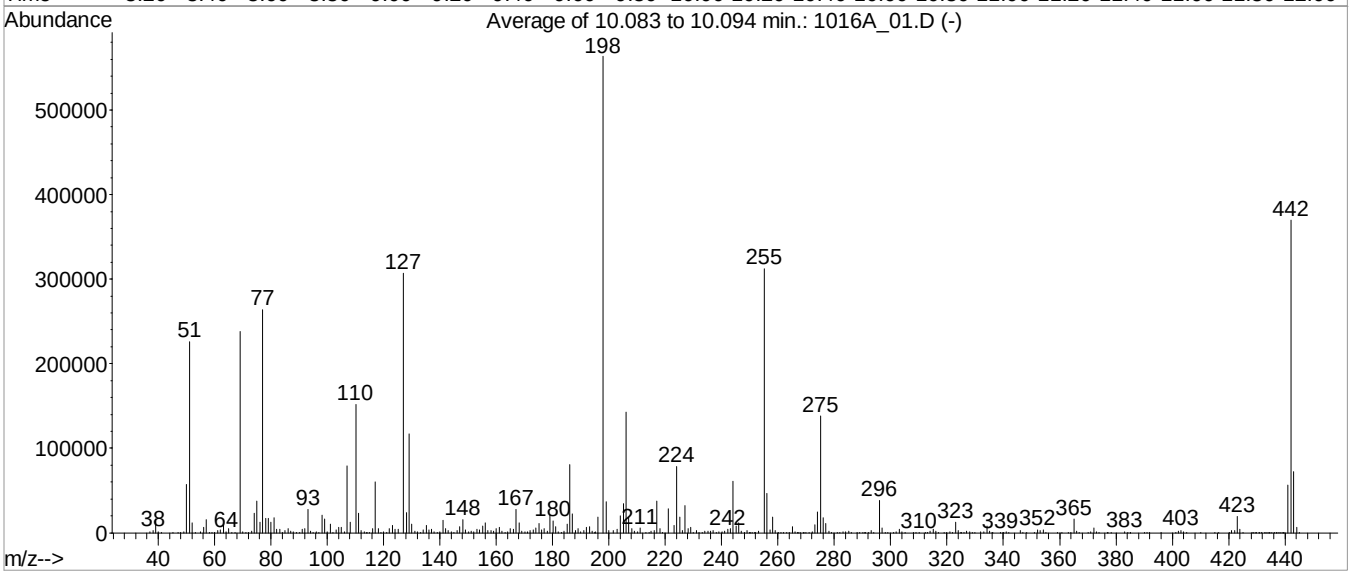


Spectrum Information: Average of 10.083 to 10.094 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.1	226339	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.3	238306	PASS
70	69	0.00	2	0.5	1118	PASS
127	198	40	60	54.5	307264	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	563754	PASS
199	198	5	9	6.5	36810	PASS
275	198	10	30	24.5	138352	PASS
365	198	1	100	2.8	15998	PASS
441	443	0.01	100	78.4	56645	PASS
442	198	40	100	65.6	369578	PASS
443	442	17	23	19.5	72237	PASS

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNED.M (RTE Integrator)
Title : 8270 BNA





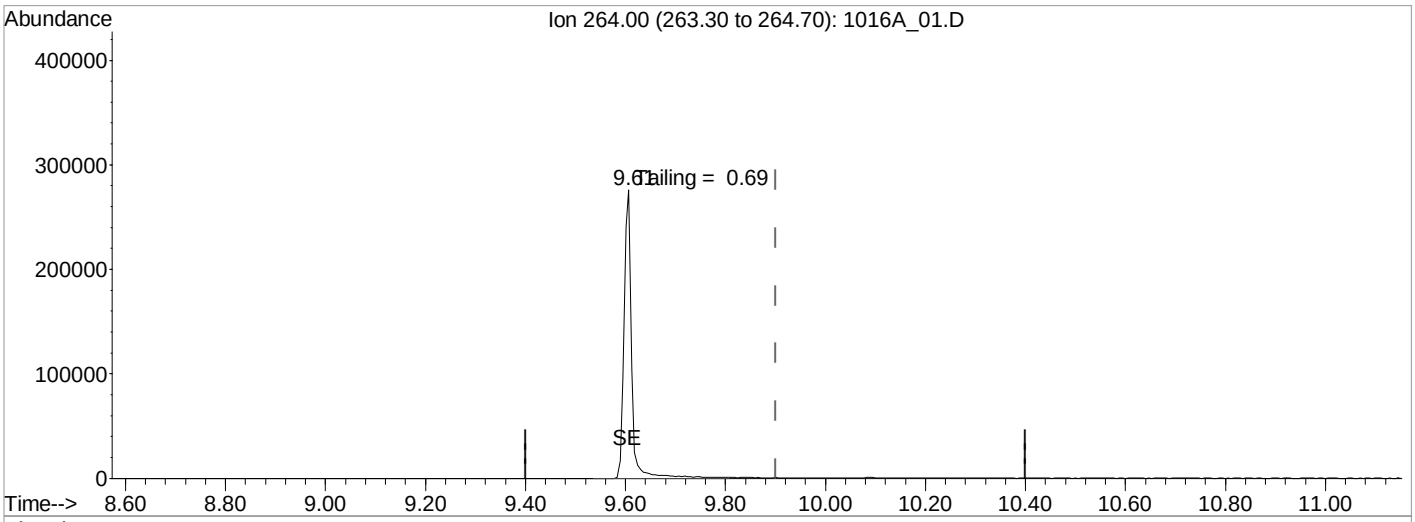
Spectrum Information: Average of 10.083 to 10.094 min.

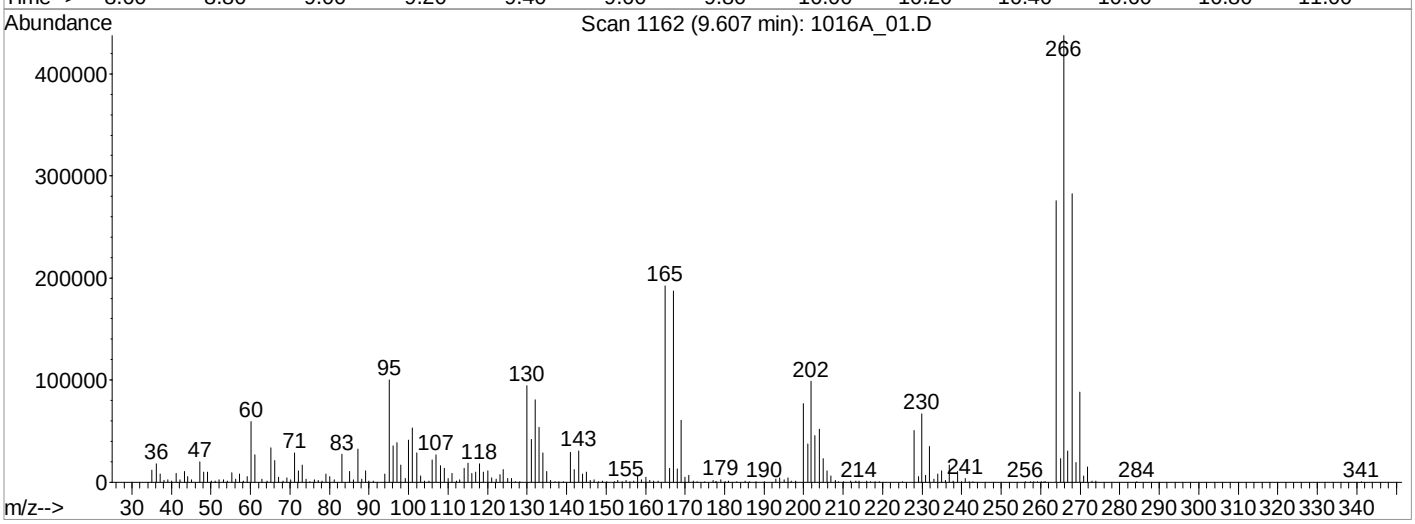
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	226339	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	1118	PASS
127	198	10	80	54.5	307264	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	563754	PASS
199	198	5	9	6.5	36810	PASS
275	198	10	60	24.5	138352	PASS
365	198	1	100	2.8	15998	PASS
441	442	0.01	24	15.3	56645	PASS
442	198	50	100	65.6	369578	PASS
443	442	15	24	19.5	72237	PASS

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1016A_01.D

(1) Pentachlorophenol (TM)

9.61min (-0.294) 21.0884261 ug/mL

Qvalue = 100

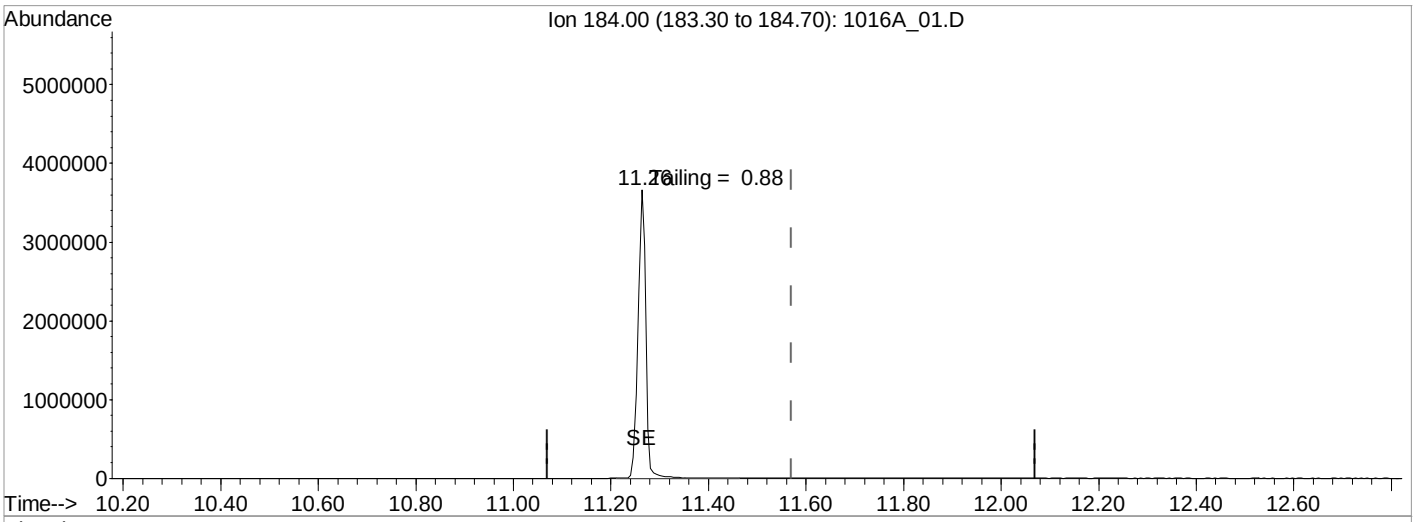
response 292685

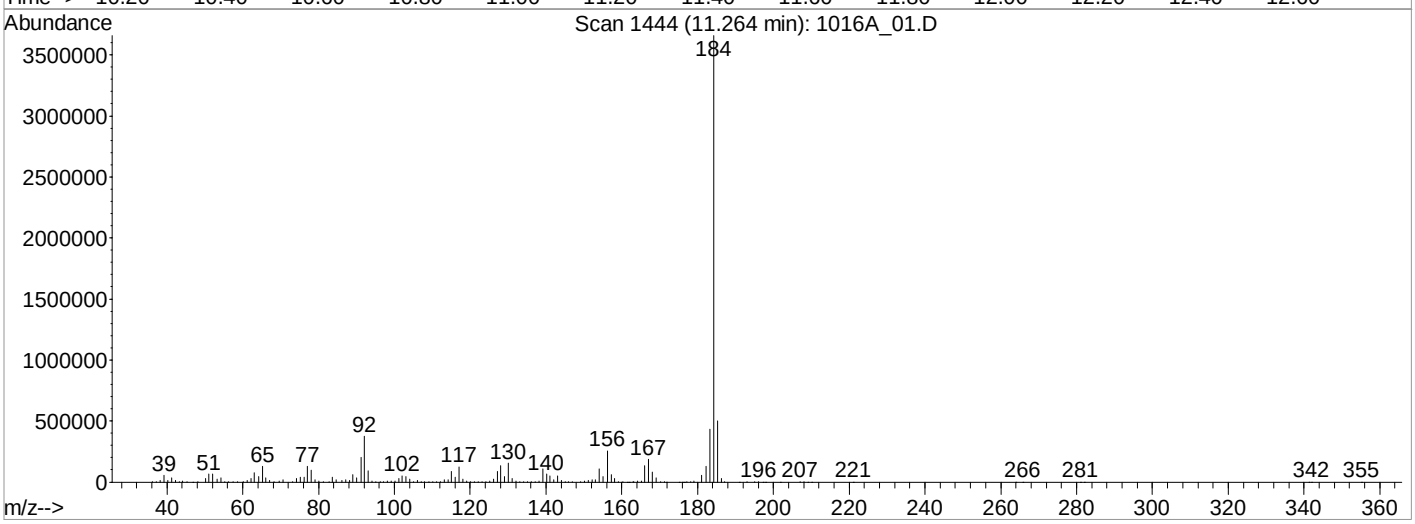
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1016A_01.D

(3) Benzidine (MT)

11.26min (-0.306) 27.5445061 ug/mL

Qvalue = 100

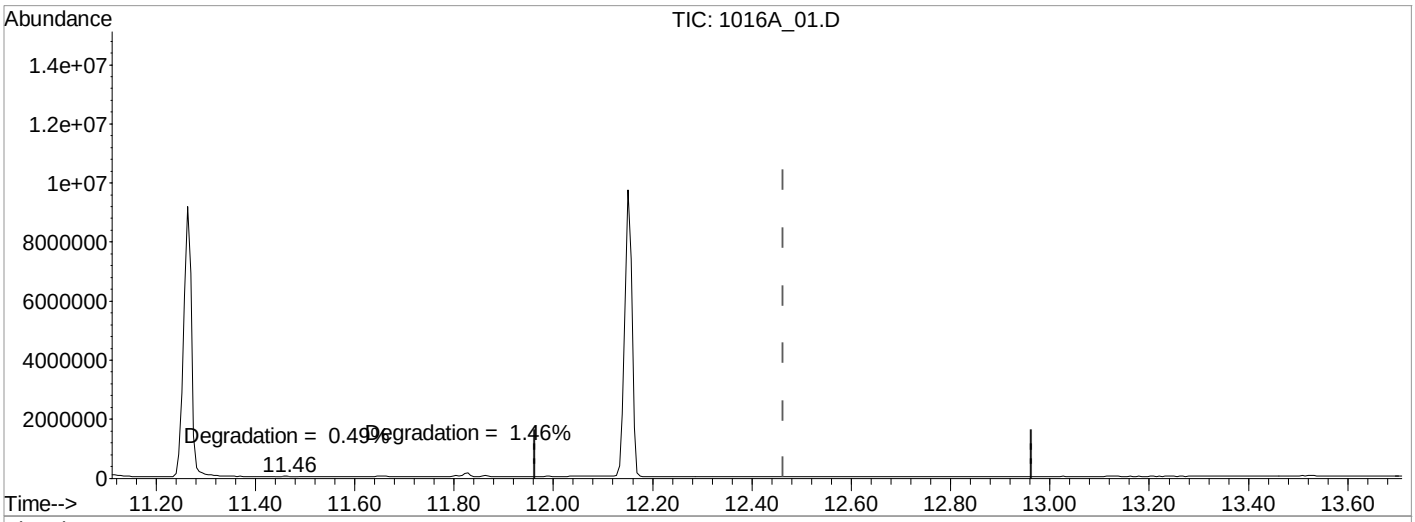
response 4049969

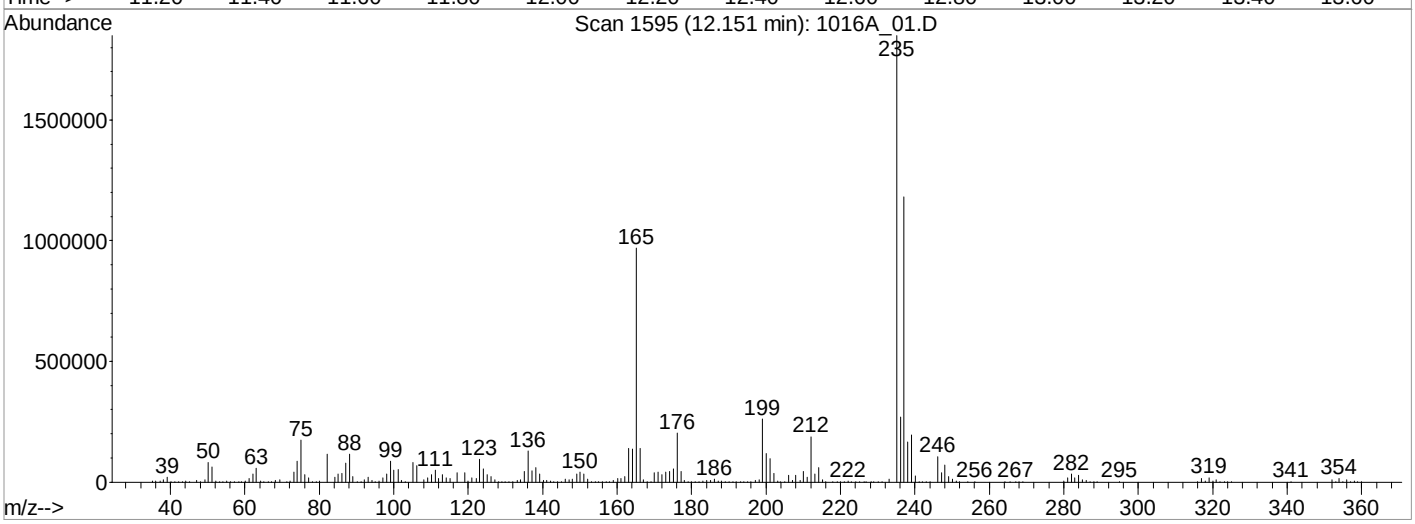
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1016A_01.D

(4) DDT (MT)

12.15min (-0.311) 149.7239177 ug/ml

Qvalue = 100

response 9807246

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	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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		2.228	2.214	2.227	2.236	2.257	2.27	2.295	2.258										2.248075	1.2	0.012	1
N-Nitrosodimethylamine		1.132	1.187	1.103	1.134	1.127	1.148	1.165	1.138										1.141807	2.22	0.022	1
2-Fluorophenol	1.398	1.417	1.381	1.399	1.411	1.411	1.417	1.437	1.42										1.410171	1.13	0.011	1
Aniline	0.887	0.892	0.849	0.853	0.829	0.844	0.842	0.842	0.828										0.851797	2.68	0.027	1
bis(2-Chloroethyl)ether	1.191	1.246	1.164	1.189	1.176	1.192	1.167	1.169	1.139										1.181458	2.48	0.025	1
Phenol-d5	1.725	1.721	1.694	1.71	1.714	1.73	1.728	1.738	1.713										1.719207	0.77	0.008	1
Phenol	1.811	1.807	1.75	1.78	1.778	1.774	1.759	1.766	1.73										1.772807	1.44	0.014	1
Benzaldehyde											0.752	0.722	0.668	0.849	0.647	0.922	0.925	0.881	0.795692	14.13	0.141	1
2-Chlorophenol	1.512	1.546	1.528	1.562	1.555	1.551	1.554	1.557	1.528										1.543597	1.1	0.011	1
n-Decane	0.981	1.089	0.91	0.931	0.883	0.884	0.874	0.868	0.839										0.917693	8.32	0.083	1
1,3-Dichlorobenzene	1.742	1.827	1.695	1.685	1.712	1.697	1.686	1.681	1.641										1.707399	3.06	0.031	1
1,4-Dichlorobenzene	1.812	1.86	1.744	1.739	1.746	1.724	1.698	1.706	1.665										1.743632	3.4	0.034	1
Benzyl Alcohol	1.462	1.326	1.247	1.27	1.267	1.284	1.279	1.275	1.241										1.294708	5.21	0.052	1
1,2-Dichlorobenzene	1.596	1.805	1.694	1.685	1.685	1.657	1.641	1.645	1.612										1.668855	3.66	0.037	1
bis(2-Chloroisopropyl)ether	0.574	0.506	0.512	0.5	0.493	0.485	0.481	0.479	0.467										0.499842	6.29	0.063	1
2-Methylphenol	1.392	1.467	1.39	1.395	1.395	1.403	1.388	1.382	1.35										1.395623	2.2	0.022	1
Hexachloroethane	0.719	0.786	0.746	0.753	0.75	0.752	0.748	0.753	0.737										0.749248	2.35	0.024	1
N-Nitrosodi-n-propylamine	1.397	1.247	1.127	1.16	1.125	1.14	1.139	1.122	1.098										1.172866	8.03	0.08	1
3&4-Methyl phenol	1.578	1.694	1.587	1.618	1.599	1.615	1.579	1.594	1.554										1.602019	2.46	0.025	1
Acetophenone										2.044	2.008	1.973	1.969	2.12	1.892	1.971	1.957	1.943	1.986257	3.28	0.033	1
Naphthalene-d8																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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	0.412	0.392	0.383	0.383	0.384	0.375	0.386	0.384	0.386										0.387149	2.67	0.027	1
Nitrobenzene	0.363	0.391	0.387	0.393	0.387	0.373	0.382	0.38	0.382										0.381908	2.46	0.025	1
Isophorone	0.702	0.692	0.68	0.666	0.672	0.646	0.657	0.65	0.66										0.669338	2.84	0.028	1
2-Nitrophenol	0.169	0.172	0.18	0.189	0.192	0.195	0.203	0.202	0.205										0.189632	7.1	0.071	1
2,4-Dimethylphenol	0.395	0.368	0.369	0.352	0.331	0.359	0.352	0.347	0.351										0.358235	5.04	0.05	1
bis(2-Chlorethoxy)methane	0.462	0.454	0.444	0.443	0.438	0.429	0.432	0.425	0.429										0.439422	2.8	0.028	1
2,4-Dichlorophenol	0.286	0.3	0.298	0.304	0.309	0.298	0.306	0.302	0.304										0.300699	2.24	0.022	1
Benzoic Acid												0.053	0.081	0.147	0.15	0.194	0.215	0.221	0.151698	42.89	0.997	3
1,2,4-Trichlorobenzene	0.346	0.342	0.342	0.344	0.339	0.325	0.329	0.327	0.327										0.335694	2.51	0.025	1
Naphthalene	1.428	1.237	1.18	1.16	1.14	1.105	1.114	1.092	1.09										1.171698	9.14	0.091	1
4-Chloroaniline	0.17	0.146	0.144	0.144	0.145	0.142	0.142	0.142	0.141										0.146071	6.21	0.062	1
Hexachloro-1,3-butadiene	0.2	0.192	0.192	0.188	0.19	0.181	0.183	0.18	0.182										0.187371	3.47	0.035	1
Caprolactam										0.091	0.099	0.099	0.099	0.111	0.101	0.113	0.113	0.11	0.104014	7.45	0.074	1
4-Chloro-3-methylphenol	0.372	0.33	0.345	0.335	0.342	0.339	0.343	0.332	0.342										0.34226	3.59	0.036	1
2-Methylnaphthalene	0.854	0.841	0.835	0.817	0.798	0.792	0.8	0.78	0.788										0.811601	3.21	0.032	1
1-Methylnaphthalene	0.784	0.782	0.759	0.764	0.749	0.738	0.748	0.728	0.737										0.754239	2.61	0.026	1
1,2,4,5-Tetrachlorobenzene										0.304	0.331	0.323	0.321	0.331	0.295	0.312	0.311	0.305	0.314824	3.96	0.04	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene			0.207	0.249	0.266	0.292	0.306	0.32	0.329										0.281437	15.42	0.154	1
2,4,6-Trichlorophenol		0.285	0.284	0.308	0.328	0.324	0.342	0.356	0.364										0.323592	9.32	0.093	1
2,4,5-Trichlorophenol		0.334	0.347	0.351	0.367	0.359	0.374	0.377	0.384										0.361584	4.65	0.047	1
2-Fluorobiphenyl	1.407	1.421	1.366	1.369	1.365	1.271	1.312	1.325	1.332										1.352083	3.48	0.035	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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	1.541	1.549	1.511	1.51	1.494	1.404	1.445	1.463	1.495										1.490241	3.11	0.031	1
2-Chloronaphthalene	1.208	1.228	1.218	1.207	1.2	1.123	1.162	1.18	1.189										1.190576	2.71	0.027	1
2-Nitroaniline	0.379	0.366	0.371	0.384	0.408	0.393	0.409	0.419	0.427										0.394946	5.53	0.055	1
Acenaphthylene	1.991	2.05	2.003	1.988	1.989	1.867	1.898	1.923	1.94										1.960811	2.96	0.03	1
Dimethyl phthalate	1.421	1.406	1.353	1.337	1.313	1.256	1.315	1.34	1.364										1.344966	3.71	0.037	1
2,6-Dinitrotoluene	0.247	0.293	0.298	0.314	0.312	0.304	0.313	0.317	0.324										0.302416	7.53	0.075	1
3-Nitroaniline		0.328	0.331	0.347	0.354	0.352	0.368	0.369	0.374										0.352789	4.86	0.049	1
Acenaphthene	1.263	1.305	1.253	1.255	1.255	1.186	1.21	1.225	1.237										1.243239	2.75	0.028	1
2,4-Dinitrophenol		0.024	0.04	0.074	0.09	0.127	0.148	0.151											0.093552	54.46	0.993	0
Dibenzofuran	1.789	1.819	1.771	1.752	1.75	1.639	1.667	1.67	1.698										1.728445	3.59	0.036	1
2,4-Dinitrotoluene		0.352	0.358	0.388	0.399	0.417	0.437	0.44	0.448										0.404777	9.12	0.091	1
2,3,4,6-Tetrachlorophenol												0.172	0.19	0.231	0.21	0.243	0.241	0.243	0.218549	13.17	0.132	1
4-Nitrophenol			0.184	0.228	0.242	0.273	0.288	0.281	0.292										0.255411	15.53	0.997	0
Fluorene	1.484	1.497	1.461	1.445	1.43	1.342	1.382	1.392	1.419										1.428026	3.52	0.035	1
4-Chlorophenyl-phenylether	0.632	0.668	0.64	0.634	0.628	0.587	0.597	0.598	0.613										0.621966	4.08	0.041	1
Diethyl phthalate	1.567	1.459	1.411	1.399	1.408	1.422	1.456	1.492	1.524										1.45981	3.97	0.04	1
4-Nitroaniline	0.298	0.325	0.342	0.357	0.362	0.385	0.396	0.387	0.396										0.360866	9.44	0.094	1
Azobenzene	1.718	1.549	1.48	1.447	1.448	1.39	1.468	1.455	1.486										1.493501	6.31	0.063	1
Atrazine										0.281	0.294	0.296	0.307	0.332	0.298	0.334	0.324	0.332	0.31095	6.43	0.064	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.066	0.085	0.095	0.114	0.126	0.126	0.13										0.105858	23.36	0.996	0
N-Nitrosodiphenylamine	0.668	0.716	0.682	0.691	0.697	0.628	0.664	0.675	0.679										0.67763	3.59	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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		0.082	0.081	0.09	0.095	0.09	0.096	0.097	0.096										0.090757	6.98	0.07	1
4-Bromophenyl-phenylether	0.213	0.218	0.207	0.214	0.214	0.191	0.203	0.204	0.206										0.20751	3.99	0.04	1
Hexachlorobenzene	0.249	0.249	0.238	0.235	0.237	0.217	0.228	0.226	0.227										0.234009	4.63	0.046	1
n-octadecane		0.154	0.147	0.149	0.149	0.13	0.133	0.139	0.137										0.142223	6.07	0.061	1
Pentachlorophenol			0.058	0.083	0.101	0.11	0.124	0.125	0.129										0.104303	24.88	0.997	0
Phenanthrene	1.224	1.218	1.175	1.186	1.181	1.111	1.182	1.19	1.19										1.184194	2.71	0.027	1
Anthracene	1.202	1.266	1.203	1.215	1.235	1.162	1.228	1.198	1.201										1.212236	2.4	0.024	1
Carbazole	1.177	1.205	1.173	1.176	1.214	1.138	1.208	1.136	1.188										1.179606	2.39	0.024	1
Di-n-butyl phthalate	1.607	1.606	1.557	1.619	1.673	1.573	1.646	1.584	1.581										1.605175	2.29	0.023	1
2-nitrodiphenylamine												0.215	0.234	0.288	0.255	0.308	0.305	0.307	0.273249	14.12	0.141	1
Fluoranthene	1.414	1.388	1.361	1.408	1.422	1.36	1.452	1.369	1.394										1.396444	2.2	0.022	1
Chrysene-d12																						
Benzidine											0.396	0.466	0.54	0.696	0.613	0.803	0.787	0.767	0.633502	24.41	0.992	0
Pyrene	1.304	1.289	1.285	1.23	1.339	1.199	1.204	1.283	1.233										1.262762	3.82	0.038	1
p-Terphenyl-d14	1.014	1.001	0.993	0.949	1.028	0.927	0.915	0.974	0.935										0.970733	4.21	0.042	1
Benzylbutyl phthalate	0.717	0.699	0.657	0.657	0.716	0.65	0.656	0.698	0.681										0.681274	3.99	0.04	1
3,3-Dichlorobenzidine										0.39	0.453	0.443	0.441	0.483	0.422	0.485	0.481	0.468	0.451703	7.03	0.07	1
Benzo(a)anthracene	1.462	1.362	1.306	1.261	1.318	1.231	1.233	1.307	1.311										1.310123	5.42	0.054	1
Chrysene	1.253	1.244	1.216	1.157	1.224	1.118	1.122	1.203	1.156										1.188156	4.31	0.043	1
bis(2-Ethylhexyl)phthalate	1.28	1.073	1.026	0.992	1.085	0.984	0.986	1.055	1.021										1.055885	8.71	0.087	1
Di-n-octyl phthalate	1.911	1.829	1.834	1.815	1.991	1.78	1.764	1.872	1.695										1.832351	4.7	0.047	1
Perylene-d12																						
Benzo(b)fluoranthene	1.248	1.268	1.233	1.171	1.233	1.245	1.329	1.302	1.442										1.2746	6.05	0.061	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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(k)fluoranthene	1.255	1.234	1.207	1.184	1.214	1.08	1.069	1.104	1.066										1.157063	6.62	0.066	1
Benzo(a)pyrene	1.203	1.226	1.181	1.159	1.207	1.148	1.169	1.21	1.237										1.193219	2.56	0.026	1
Indeno(1,2,3-cd)pyrene	1.269	1.329	1.319	1.321	1.429	1.238	1.246	1.335	1.338										1.313944	4.43	0.044	1
Dibenz(a,h)anthracene	0.992	1.096	1.107	1.114	1.216	1.042	1.055	1.122	1.129										1.096851	5.78	0.058	1
Benzo(g,h,i)perylene	1.063	1.118	1.102	1.095	1.186	1.02	1.028	1.107	1.094										1.090373	4.59	0.046	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 625	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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		2.228	2.214	2.227	2.236	2.257	2.27	2.295	2.258										2.248075	1.2	0.012	1
N-Nitrosodimethylamine		1.132	1.187	1.103	1.134	1.127	1.148	1.165	1.138										1.141807	2.22	0.022	1
2-Fluorophenol	1.398	1.417	1.381	1.399	1.411	1.411	1.417	1.437	1.42										1.410171	1.13	0.011	1
Aniline	0.887	0.892	0.849	0.853	0.829	0.844	0.842	0.842	0.828										0.851797	2.68	0.027	1
bis(2-Chloroethyl)ether	1.191	1.246	1.164	1.189	1.176	1.192	1.167	1.169	1.139										1.181458	2.48	0.025	1
Phenol-d5	1.725	1.721	1.694	1.71	1.714	1.73	1.728	1.738	1.713										1.719207	0.77	0.008	1
Phenol	1.811	1.807	1.75	1.78	1.778	1.774	1.759	1.766	1.73										1.772807	1.44	0.014	1
Benzaldehyde											0.752	0.722	0.668	0.849	0.647	0.922	0.925	0.881	0.795692	14.13	0.141	1
2-Chlorophenol	1.512	1.546	1.528	1.562	1.555	1.551	1.554	1.557	1.528										1.543597	1.1	0.011	1
n-Decane	0.981	1.089	0.91	0.931	0.883	0.884	0.874	0.868	0.839										0.917693	8.32	0.083	1
1,3-Dichlorobenzene	1.742	1.827	1.695	1.685	1.712	1.697	1.686	1.681	1.641										1.707399	3.06	0.031	1
1,4-Dichlorobenzene	1.812	1.86	1.744	1.739	1.746	1.724	1.698	1.706	1.665										1.743632	3.4	0.034	1
Benzyl Alcohol	1.462	1.326	1.247	1.27	1.267	1.284	1.279	1.275	1.241										1.294708	5.21	0.052	1
1,2-Dichlorobenzene	1.596	1.805	1.694	1.685	1.685	1.657	1.641	1.645	1.612										1.668855	3.66	0.037	1
bis(2-Chloroisopropyl)ether	0.574	0.506	0.512	0.5	0.493	0.485	0.481	0.479	0.467										0.499842	6.29	0.063	1
2-Methylphenol	1.392	1.467	1.39	1.395	1.395	1.403	1.388	1.382	1.35										1.395623	2.2	0.022	1
Hexachloroethane	0.719	0.786	0.746	0.753	0.75	0.752	0.748	0.753	0.737										0.749248	2.35	0.024	1
N-Nitrosodi-n-propylamine	1.397	1.247	1.127	1.16	1.125	1.14	1.139	1.122	1.098										1.172866	8.03	0.08	1
3&4-Methyl phenol	1.578	1.694	1.587	1.618	1.599	1.615	1.579	1.594	1.554										1.602019	2.46	0.025	1
Acetophenone										2.044	2.008	1.973	1.969	2.12	1.892	1.971	1.957	1.943	1.986257	3.28	0.033	1
Naphthalene-d8																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 625	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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	0.412	0.392	0.383	0.383	0.384	0.375	0.386	0.384	0.386										0.387149	2.67	0.027	1
Nitrobenzene	0.363	0.391	0.387	0.393	0.387	0.373	0.382	0.38	0.382										0.381908	2.46	0.025	1
Isophorone	0.702	0.692	0.68	0.666	0.672	0.646	0.657	0.65	0.66										0.669338	2.84	0.028	1
2-Nitrophenol	0.169	0.172	0.18	0.189	0.192	0.195	0.203	0.202	0.205										0.189632	7.1	0.071	1
2,4-Dimethylphenol	0.395	0.368	0.369	0.352	0.331	0.359	0.352	0.347	0.351										0.358235	5.04	0.05	1
bis(2-Chlorethoxy)methane	0.462	0.454	0.444	0.443	0.438	0.429	0.432	0.425	0.429										0.439422	2.8	0.028	1
2,4-Dichlorophenol	0.286	0.3	0.298	0.304	0.309	0.298	0.306	0.302	0.304										0.300699	2.24	0.022	1
Benzoic Acid												0.053	0.081	0.147	0.15	0.194	0.215	0.221	0.151698	42.89	0.997	3
1,2,4-Trichlorobenzene	0.346	0.342	0.342	0.344	0.339	0.325	0.329	0.327	0.327										0.335694	2.51	0.025	1
Naphthalene	1.428	1.237	1.18	1.16	1.14	1.105	1.114	1.092	1.09										1.171698	9.14	0.091	1
4-Chloroaniline	0.17	0.146	0.144	0.144	0.145	0.142	0.142	0.142	0.141										0.146071	6.21	0.062	1
Hexachloro-1,3-butadiene	0.2	0.192	0.192	0.188	0.19	0.181	0.183	0.18	0.182										0.187371	3.47	0.035	1
Caprolactam										0.091	0.099	0.099	0.099	0.111	0.101	0.113	0.113	0.11	0.104014	7.45	0.074	1
4-Chloro-3-methylphenol	0.372	0.33	0.345	0.335	0.342	0.339	0.343	0.332	0.342										0.34226	3.59	0.036	1
2-Methylnaphthalene	0.854	0.841	0.835	0.817	0.798	0.792	0.8	0.78	0.788										0.811601	3.21	0.032	1
1-Methylnaphthalene	0.784	0.782	0.759	0.764	0.749	0.738	0.748	0.728	0.737										0.754239	2.61	0.026	1
1,2,4,5-Tetrachlorobenzene										0.304	0.331	0.323	0.321	0.331	0.295	0.312	0.311	0.305	0.314824	3.96	0.04	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene			0.207	0.249	0.266	0.292	0.306	0.32	0.329										0.281437	15.42	0.154	1
2,4,6-Trichlorophenol		0.285	0.284	0.308	0.328	0.324	0.342	0.356	0.364										0.323592	9.32	0.093	1
2,4,5-Trichlorophenol		0.334	0.347	0.351	0.367	0.359	0.374	0.377	0.384										0.361584	4.65	0.047	1
2-Fluorobiphenyl	1.407	1.421	1.366	1.369	1.365	1.271	1.312	1.325	1.332										1.352083	3.48	0.035	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 625	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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	1.541	1.549	1.511	1.51	1.494	1.404	1.445	1.463	1.495										1.490241	3.11	0.031	1
2-Chloronaphthalene	1.208	1.228	1.218	1.207	1.2	1.123	1.162	1.18	1.189										1.190576	2.71	0.027	1
2-Nitroaniline	0.379	0.366	0.371	0.384	0.408	0.393	0.409	0.419	0.427										0.394946	5.53	0.055	1
Acenaphthylene	1.991	2.05	2.003	1.988	1.989	1.867	1.898	1.923	1.94										1.960811	2.96	0.03	1
Dimethyl phthalate	1.421	1.406	1.353	1.337	1.313	1.256	1.315	1.34	1.364										1.344966	3.71	0.037	1
2,6-Dinitrotoluene	0.247	0.293	0.298	0.314	0.312	0.304	0.313	0.317	0.324										0.302416	7.53	0.075	1
3-Nitroaniline		0.328	0.331	0.347	0.354	0.352	0.368	0.369	0.374										0.352789	4.86	0.049	1
Acenaphthene	1.263	1.305	1.253	1.255	1.255	1.186	1.21	1.225	1.237										1.243239	2.75	0.028	1
2,4-Dinitrophenol		0.024	0.04	0.074	0.09	0.127	0.148	0.151											0.093552	54.46	0.993	0
Dibenzofuran	1.789	1.819	1.771	1.752	1.75	1.639	1.667	1.67	1.698										1.728445	3.59	0.036	1
2,4-Dinitrotoluene		0.352	0.358	0.388	0.399	0.417	0.437	0.44	0.448										0.404777	9.12	0.091	1
2,3,4,6-Tetrachlorophenol												0.172	0.19	0.231	0.21	0.243	0.241	0.243	0.218549	13.17	0.132	1
4-Nitrophenol			0.184	0.228	0.242	0.273	0.288	0.281	0.292										0.255411	15.53	0.997	0
Fluorene	1.484	1.497	1.461	1.445	1.43	1.342	1.382	1.392	1.419										1.428026	3.52	0.035	1
4-Chlorophenyl-phenylether	0.632	0.668	0.64	0.634	0.628	0.587	0.597	0.598	0.613										0.621966	4.08	0.041	1
Diethyl phthalate	1.567	1.459	1.411	1.399	1.408	1.422	1.456	1.492	1.524										1.45981	3.97	0.04	1
4-Nitroaniline	0.298	0.325	0.342	0.357	0.362	0.385	0.396	0.387	0.396										0.360866	9.44	0.094	1
Azobenzene	1.718	1.549	1.48	1.447	1.448	1.39	1.468	1.455	1.486										1.493501	6.31	0.063	1
Atrazine										0.281	0.294	0.296	0.307	0.332	0.298	0.334	0.324	0.332	0.31095	6.43	0.064	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.066	0.085	0.095	0.114	0.126	0.126	0.13										0.105858	23.36	0.996	0
N-Nitrosodiphenylamine	0.668	0.716	0.682	0.691	0.697	0.628	0.664	0.675	0.679										0.67763	3.59	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS4	Review Method	:	625	Released By	:	Chris McCord
Method	:	S804J16N	Review Protocol	:	EPA	Released On	:	10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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		0.082	0.081	0.09	0.095	0.09	0.096	0.097	0.096										0.090757	6.98	0.07	1
4-Bromophenyl-phenylether	0.213	0.218	0.207	0.214	0.214	0.191	0.203	0.204	0.206										0.20751	3.99	0.04	1
Hexachlorobenzene	0.249	0.249	0.238	0.235	0.237	0.217	0.228	0.226	0.227										0.234009	4.63	0.046	1
n-octadecane		0.154	0.147	0.149	0.149	0.13	0.133	0.139	0.137										0.142223	6.07	0.061	1
Pentachlorophenol			0.058	0.083	0.101	0.11	0.124	0.125	0.129										0.104303	24.88	0.997	0
Phenanthrene	1.224	1.218	1.175	1.186	1.181	1.111	1.182	1.19	1.19										1.184194	2.71	0.027	1
Anthracene	1.202	1.266	1.203	1.215	1.235	1.162	1.228	1.198	1.201										1.212236	2.4	0.024	1
Carbazole	1.177	1.205	1.173	1.176	1.214	1.138	1.208	1.136	1.188										1.179606	2.39	0.024	1
Di-n-butyl phthalate	1.607	1.606	1.557	1.619	1.673	1.573	1.646	1.584	1.581										1.605175	2.29	0.023	1
2-nitrodiphenylamine												0.215	0.234	0.288	0.255	0.308	0.305	0.307	0.273249	14.12	0.141	1
Fluoranthene	1.414	1.388	1.361	1.408	1.422	1.36	1.452	1.369	1.394										1.396444	2.2	0.022	1
Chrysene-d12																						
Benzidine											0.396	0.466	0.54	0.696	0.613	0.803	0.787	0.767	0.633502	24.41	0.992	0
Pyrene	1.304	1.289	1.285	1.23	1.339	1.199	1.204	1.283	1.233										1.262762	3.82	0.038	1
p-Terphenyl-d14	1.014	1.001	0.993	0.949	1.028	0.927	0.915	0.974	0.935										0.970733	4.21	0.042	1
Benzylbutyl phthalate	0.717	0.699	0.657	0.657	0.716	0.65	0.656	0.698	0.681										0.681274	3.99	0.04	1
3,3-Dichlorobenzidine										0.39	0.453	0.443	0.441	0.483	0.422	0.485	0.481	0.468	0.451703	7.03	0.07	1
Benzo(a)anthracene	1.462	1.362	1.306	1.261	1.318	1.231	1.233	1.307	1.311										1.310123	5.42	0.054	1
Chrysene	1.253	1.244	1.216	1.157	1.224	1.118	1.122	1.203	1.156										1.188156	4.31	0.043	1
bis(2-Ethylhexyl)phthalate	1.28	1.073	1.026	0.992	1.085	0.984	0.986	1.055	1.021										1.055885	8.71	0.087	1
Di-n-octyl phthalate	1.911	1.829	1.834	1.815	1.991	1.78	1.764	1.872	1.695										1.832351	4.7	0.047	1
Perylene-d12																						
Benzo(b)fluoranthene	1.248	1.268	1.233	1.171	1.233	1.245	1.329	1.302	1.442										1.2746	6.05	0.061	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 625	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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(k)fluoranthene	1.255	1.234	1.207	1.184	1.214	1.08	1.069	1.104	1.066										1.157063	6.62	0.066	1
Benzo(a)pyrene	1.203	1.226	1.181	1.159	1.207	1.148	1.169	1.21	1.237										1.193219	2.56	0.026	1
Indeno(1,2,3-cd)pyrene	1.269	1.329	1.319	1.321	1.429	1.238	1.246	1.335	1.338										1.313944	4.43	0.044	1
Dibenz(a,h)anthracene	0.992	1.096	1.107	1.114	1.216	1.042	1.055	1.122	1.129										1.096851	5.78	0.058	1
Benzo(g,h,i)perylene	1.063	1.118	1.102	1.095	1.186	1.02	1.028	1.107	1.094										1.090373	4.59	0.046	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270D	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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		2.228	2.214	2.227	2.236	2.257	2.27	2.295	2.258										2.248075	1.2	0.012	1	
N-Nitrosodimethylamine		1.132	1.187	1.103	1.134	1.127	1.148	1.165	1.138										1.141807	2.22	0.022	1	
2-Fluorophenol	1.398	1.417	1.381	1.399	1.411	1.411	1.417	1.437	1.42										1.410171	1.13	0.011	1	
Aniline	0.887	0.892	0.849	0.853	0.829	0.844	0.842	0.842	0.828										0.851797	2.68	0.027	1	
bis(2-Chloroethyl)ether	1.191	1.246	1.164	1.189	1.176	1.192	1.167	1.169	1.139										1.181458	2.48	0.025	1	0.7
Phenol-d5	1.725	1.721	1.694	1.71	1.714	1.73	1.728	1.738	1.713										1.719207	0.77	0.008	1	
Phenol	1.811	1.807	1.75	1.78	1.778	1.774	1.759	1.766	1.73										1.772807	1.44	0.014	1	0.8
Benzaldehyde											0.752	0.722	0.668	0.849	0.647	0.922	0.925	0.881	0.795692	14.13	0.141	1	0.01
2-Chlorophenol	1.512	1.546	1.528	1.562	1.555	1.551	1.554	1.557	1.528										1.543597	1.1	0.011	1	0.8
n-Decane	0.981	1.089	0.91	0.931	0.883	0.884	0.874	0.868	0.839										0.917693	8.32	0.083	1	
1,3-Dichlorobenzene	1.742	1.827	1.695	1.685	1.712	1.697	1.686	1.681	1.641										1.707399	3.06	0.031	1	
1,4-Dichlorobenzene	1.812	1.86	1.744	1.739	1.746	1.724	1.698	1.706	1.665										1.743632	3.4	0.034	1	
Benzyl Alcohol	1.462	1.326	1.247	1.27	1.267	1.284	1.279	1.275	1.241										1.294708	5.21	0.052	1	
1,2-Dichlorobenzene	1.596	1.805	1.694	1.685	1.685	1.657	1.641	1.645	1.612										1.668855	3.66	0.037	1	
bis(2-Chloroisopropyl)ether	0.574	0.506	0.512	0.5	0.493	0.485	0.481	0.479	0.467										0.499842	6.29	0.063	1	
2-Methylphenol	1.392	1.467	1.39	1.395	1.395	1.403	1.388	1.382	1.35										1.395623	2.2	0.022	1	0.7
Hexachloroethane	0.719	0.786	0.746	0.753	0.75	0.752	0.748	0.753	0.737										0.749248	2.35	0.024	1	0.3
N-Nitrosodi-n-propylamine	1.397	1.247	1.127	1.16	1.125	1.14	1.139	1.122	1.098										1.172866	8.03	0.08	1	0.5
3&4-Methyl phenol	1.578	1.694	1.587	1.618	1.599	1.615	1.579	1.594	1.554										1.602019	2.46	0.025	1	0.6
Acetophenone										2.044	2.008	1.973	1.969	2.12	1.892	1.971	1.957	1.943	1.986257	3.28	0.033	1	0.01
Naphthalene-d8																							

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INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270D	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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	0.412	0.392	0.383	0.383	0.384	0.375	0.386	0.384	0.386										0.387149	2.67	0.027	1	
Nitrobenzene	0.363	0.391	0.387	0.393	0.387	0.373	0.382	0.38	0.382										0.381908	2.46	0.025	1	0.2
Isophorone	0.702	0.692	0.68	0.666	0.672	0.646	0.657	0.65	0.66										0.669338	2.84	0.028	1	0.4
2-Nitrophenol	0.169	0.172	0.18	0.189	0.192	0.195	0.203	0.202	0.205										0.189632	7.1	0.071	1	0.1
2,4-Dimethylphenol	0.395	0.368	0.369	0.352	0.331	0.359	0.352	0.347	0.351										0.358235	5.04	0.05	1	0.2
bis(2-Chlorethoxy)methane	0.462	0.454	0.444	0.443	0.438	0.429	0.432	0.425	0.429										0.439422	2.8	0.028	1	0.3
2,4-Dichlorophenol	0.286	0.3	0.298	0.304	0.309	0.298	0.306	0.302	0.304										0.300699	2.24	0.022	1	0.2
Benzoic Acid												0.053	0.081	0.147	0.15	0.194	0.215	0.221	0.151698	42.89	0.997	3	
1,2,4-Trichlorobenzene	0.346	0.342	0.342	0.344	0.339	0.325	0.329	0.327	0.327										0.335694	2.51	0.025	1	
Naphthalene	1.428	1.237	1.18	1.16	1.14	1.105	1.114	1.092	1.09										1.171698	9.14	0.091	1	0.7
4-Chloroaniline	0.17	0.146	0.144	0.144	0.145	0.142	0.142	0.142	0.141										0.146071	6.21	0.062	1	0.01
Hexachloro-1,3-butadiene	0.2	0.192	0.192	0.188	0.19	0.181	0.183	0.18	0.182										0.187371	3.47	0.035	1	0.01
Caprolactam										0.091	0.099	0.099	0.099	0.111	0.101	0.113	0.113	0.11	0.104014	7.45	0.074	1	0.01
4-Chloro-3-methylphenol	0.372	0.33	0.345	0.335	0.342	0.339	0.343	0.332	0.342										0.34226	3.59	0.036	1	0.2
2-Methylnaphthalene	0.854	0.841	0.835	0.817	0.798	0.792	0.8	0.78	0.788										0.811601	3.21	0.032	1	0.4
1-Methylnaphthalene	0.784	0.782	0.759	0.764	0.749	0.738	0.748	0.728	0.737										0.754239	2.61	0.026	1	
1,2,4,5-Tetrachlorobenzene										0.304	0.331	0.323	0.321	0.331	0.295	0.312	0.311	0.305	0.314824	3.96	0.04	1	0.01
Acenaphthene-d10																							
Hexachlorocyclopentadiene			0.207	0.249	0.266	0.292	0.306	0.32	0.329										0.281437	15.42	0.154	1	0.05
2,4,6-Trichlorophenol		0.285	0.284	0.308	0.328	0.324	0.342	0.356	0.364										0.323592	9.32	0.093	1	0.2
2,4,5-Trichlorophenol		0.334	0.347	0.351	0.367	0.359	0.374	0.377	0.384										0.361584	4.65	0.047	1	0.2
2-Fluorobiphenyl	1.407	1.421	1.366	1.369	1.365	1.271	1.312	1.325	1.332										1.352083	3.48	0.035	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270D	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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	1.541	1.549	1.511	1.51	1.494	1.404	1.445	1.463	1.495										1.490241	3.11	0.031	1	0.01
2-Chloronaphthalene	1.208	1.228	1.218	1.207	1.2	1.123	1.162	1.18	1.189										1.190576	2.71	0.027	1	0.8
2-Nitroaniline	0.379	0.366	0.371	0.384	0.408	0.393	0.409	0.419	0.427										0.394946	5.53	0.055	1	0.01
Acenaphthylene	1.991	2.05	2.003	1.988	1.989	1.867	1.898	1.923	1.94										1.960811	2.96	0.03	1	0.9
Dimethyl phthalate	1.421	1.406	1.353	1.337	1.313	1.256	1.315	1.34	1.364										1.344966	3.71	0.037	1	0.01
2,6-Dinitrotoluene	0.247	0.293	0.298	0.314	0.312	0.304	0.313	0.317	0.324										0.302416	7.53	0.075	1	0.2
3-Nitroaniline		0.328	0.331	0.347	0.354	0.352	0.368	0.369	0.374										0.352789	4.86	0.049	1	0.01
Acenaphthene	1.263	1.305	1.253	1.255	1.255	1.186	1.21	1.225	1.237										1.243239	2.75	0.028	1	0.9
2,4-Dinitrophenol		0.024	0.04	0.074	0.09	0.127	0.148	0.151											0.093552	54.46	0.993	0	0.01
Dibenzofuran	1.789	1.819	1.771	1.752	1.75	1.639	1.667	1.67	1.698										1.728445	3.59	0.036	1	0.8
2,4-Dinitrotoluene		0.352	0.358	0.388	0.399	0.417	0.437	0.44	0.448										0.404777	9.12	0.091	1	0.2
2,3,4,6-Tetrachlorophenol												0.172	0.19	0.231	0.21	0.243	0.241	0.243	0.218549	13.17	0.132	1	0.01
4-Nitrophenol			0.184	0.228	0.242	0.273	0.288	0.281	0.292										0.255411	15.53	0.997	0	0.01
Fluorene	1.484	1.497	1.461	1.445	1.43	1.342	1.382	1.392	1.419										1.428026	3.52	0.035	1	0.9
4-Chlorophenyl-phenylether	0.632	0.668	0.64	0.634	0.628	0.587	0.597	0.598	0.613										0.621966	4.08	0.041	1	0.4
Diethyl phthalate	1.567	1.459	1.411	1.399	1.408	1.422	1.456	1.492	1.524										1.45981	3.97	0.04	1	0.01
4-Nitroaniline	0.298	0.325	0.342	0.357	0.362	0.385	0.396	0.387	0.396										0.360866	9.44	0.094	1	0.01
Azobenzene	1.718	1.549	1.48	1.447	1.448	1.39	1.468	1.455	1.486										1.493501	6.31	0.063	1	
Atrazine										0.281	0.294	0.296	0.307	0.332	0.298	0.334	0.324	0.332	0.31095	6.43	0.064	1	0.01
Phenanthrene-d10																							
4,6-Dinitro-2-methylphenol			0.066	0.085	0.095	0.114	0.126	0.126	0.13										0.105858	23.36	0.996	0	0.01
N-Nitrosodiphenylamine	0.668	0.716	0.682	0.691	0.697	0.628	0.664	0.675	0.679										0.67763	3.59	0.036	1	0.01

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270D	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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		0.082	0.081	0.09	0.095	0.09	0.096	0.097	0.096										0.090757	6.98	0.07	1	
4-Bromophenyl-phenylether	0.213	0.218	0.207	0.214	0.214	0.191	0.203	0.204	0.206										0.20751	3.99	0.04	1	0.1
Hexachlorobenzene	0.249	0.249	0.238	0.235	0.237	0.217	0.228	0.226	0.227										0.234009	4.63	0.046	1	0.1
n-octadecane		0.154	0.147	0.149	0.149	0.13	0.133	0.139	0.137										0.142223	6.07	0.061	1	
Pentachlorophenol			0.058	0.083	0.101	0.11	0.124	0.125	0.129										0.104303	24.88	0.997	0	0.05
Phenanthrene	1.224	1.218	1.175	1.186	1.181	1.111	1.182	1.19	1.19										1.184194	2.71	0.027	1	0.7
Anthracene	1.202	1.266	1.203	1.215	1.235	1.162	1.228	1.198	1.201										1.212236	2.4	0.024	1	0.7
Carbazole	1.177	1.205	1.173	1.176	1.214	1.138	1.208	1.136	1.188										1.179606	2.39	0.024	1	0.01
Di-n-butyl phthalate	1.607	1.606	1.557	1.619	1.673	1.573	1.646	1.584	1.581										1.605175	2.29	0.023	1	0.01
2-nitrodiphenylamine												0.215	0.234	0.288	0.255	0.308	0.305	0.307	0.273249	14.12	0.141	1	
Fluoranthene	1.414	1.388	1.361	1.408	1.422	1.36	1.452	1.369	1.394										1.396444	2.2	0.022	1	0.6
Chrysene-d12																							
Benzidine											0.396	0.466	0.54	0.696	0.613	0.803	0.787	0.767	0.633502	24.41	0.992	0	
Pyrene	1.304	1.289	1.285	1.23	1.339	1.199	1.204	1.283	1.233										1.262762	3.82	0.038	1	0.6
p-Terphenyl-d14	1.014	1.001	0.993	0.949	1.028	0.927	0.915	0.974	0.935										0.970733	4.21	0.042	1	
Benzylbutyl phthalate	0.717	0.699	0.657	0.657	0.716	0.65	0.656	0.698	0.681										0.681274	3.99	0.04	1	0.01
3,3-Dichlorobenzidine										0.39	0.453	0.443	0.441	0.483	0.422	0.485	0.481	0.468	0.451703	7.03	0.07	1	0.01
Benzo(a)anthracene	1.462	1.362	1.306	1.261	1.318	1.231	1.233	1.307	1.311										1.310123	5.42	0.054	1	0.8
Chrysene	1.253	1.244	1.216	1.157	1.224	1.118	1.122	1.203	1.156										1.188156	4.31	0.043	1	0.7
bis(2-Ethylhexyl)phthalate	1.28	1.073	1.026	0.992	1.085	0.984	0.986	1.055	1.021										1.055885	8.71	0.087	1	0.01
Di-n-octyl phthalate	1.911	1.829	1.834	1.815	1.991	1.78	1.764	1.872	1.695										1.832351	4.7	0.047	1	0.01
Perylene-d12																							
Benzo(b)fluoranthene	1.248	1.268	1.233	1.171	1.233	1.245	1.329	1.302	1.442										1.2746	6.05	0.061	1	0.7

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270D	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 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(k)fluoranthene	1.255	1.234	1.207	1.184	1.214	1.08	1.069	1.104	1.066										1.157063	6.62	0.066	1	0.7
Benzo(a)pyrene	1.203	1.226	1.181	1.159	1.207	1.148	1.169	1.21	1.237										1.193219	2.56	0.026	1	0.7
Indeno(1,2,3-cd)pyrene	1.269	1.329	1.319	1.321	1.429	1.238	1.246	1.335	1.338										1.313944	4.43	0.044	1	0.5
Dibenz(a,h)anthracene	0.992	1.096	1.107	1.114	1.216	1.042	1.055	1.122	1.129										1.096851	5.78	0.058	1	0.4
Benzo(g,h,i)perylene	1.063	1.118	1.102	1.095	1.186	1.02	1.028	1.107	1.094										1.090373	4.59	0.046	1	0.5

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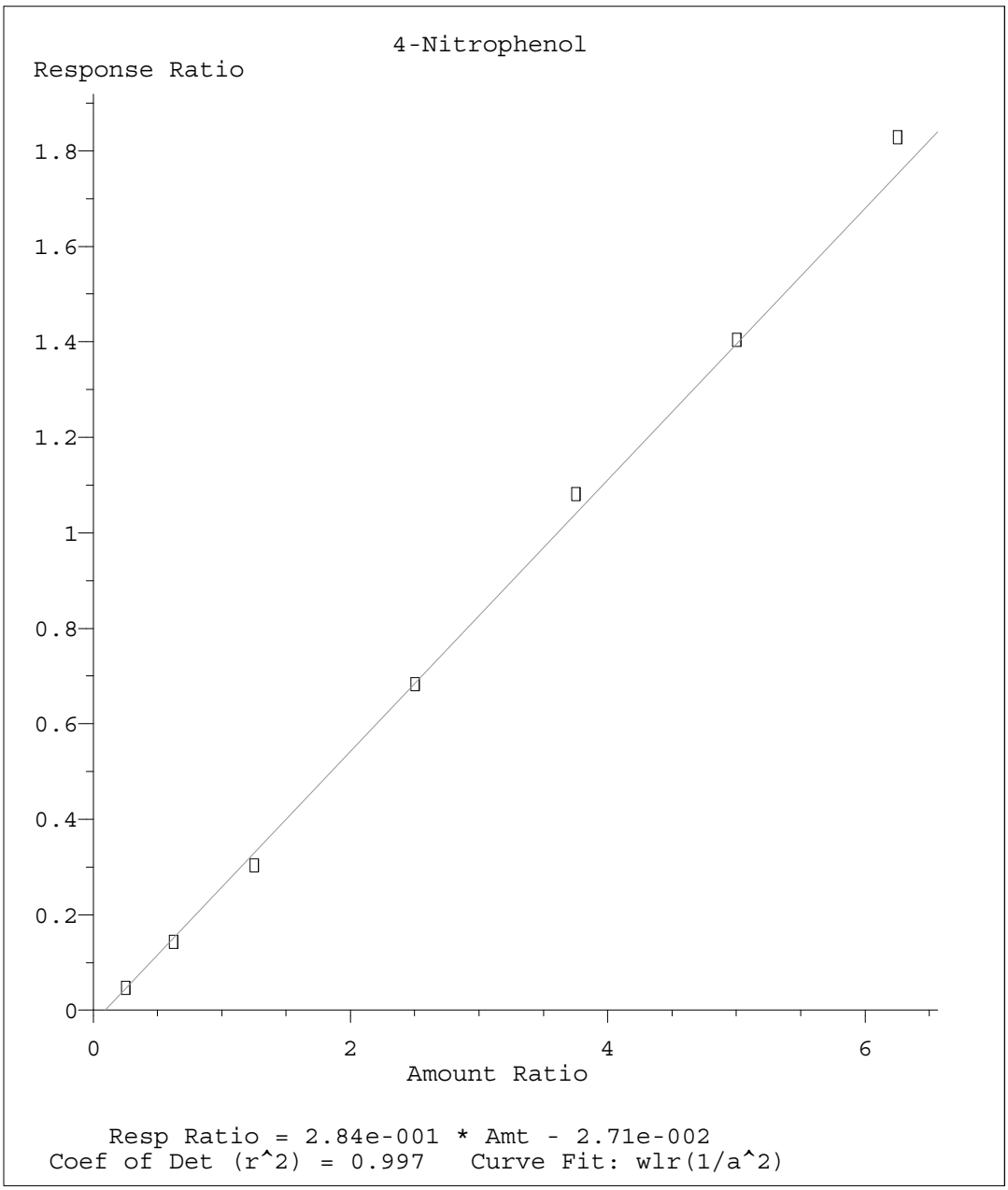
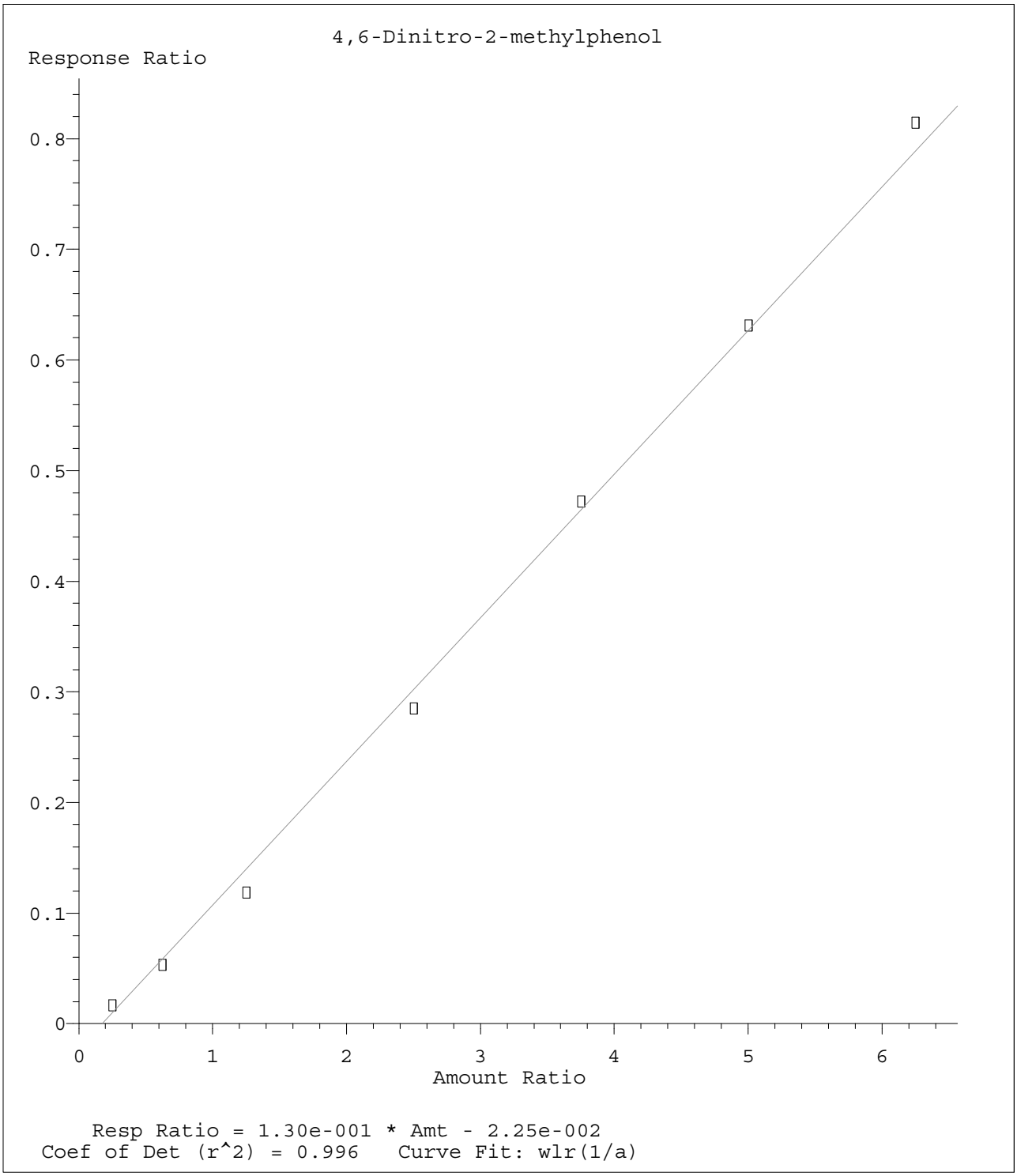
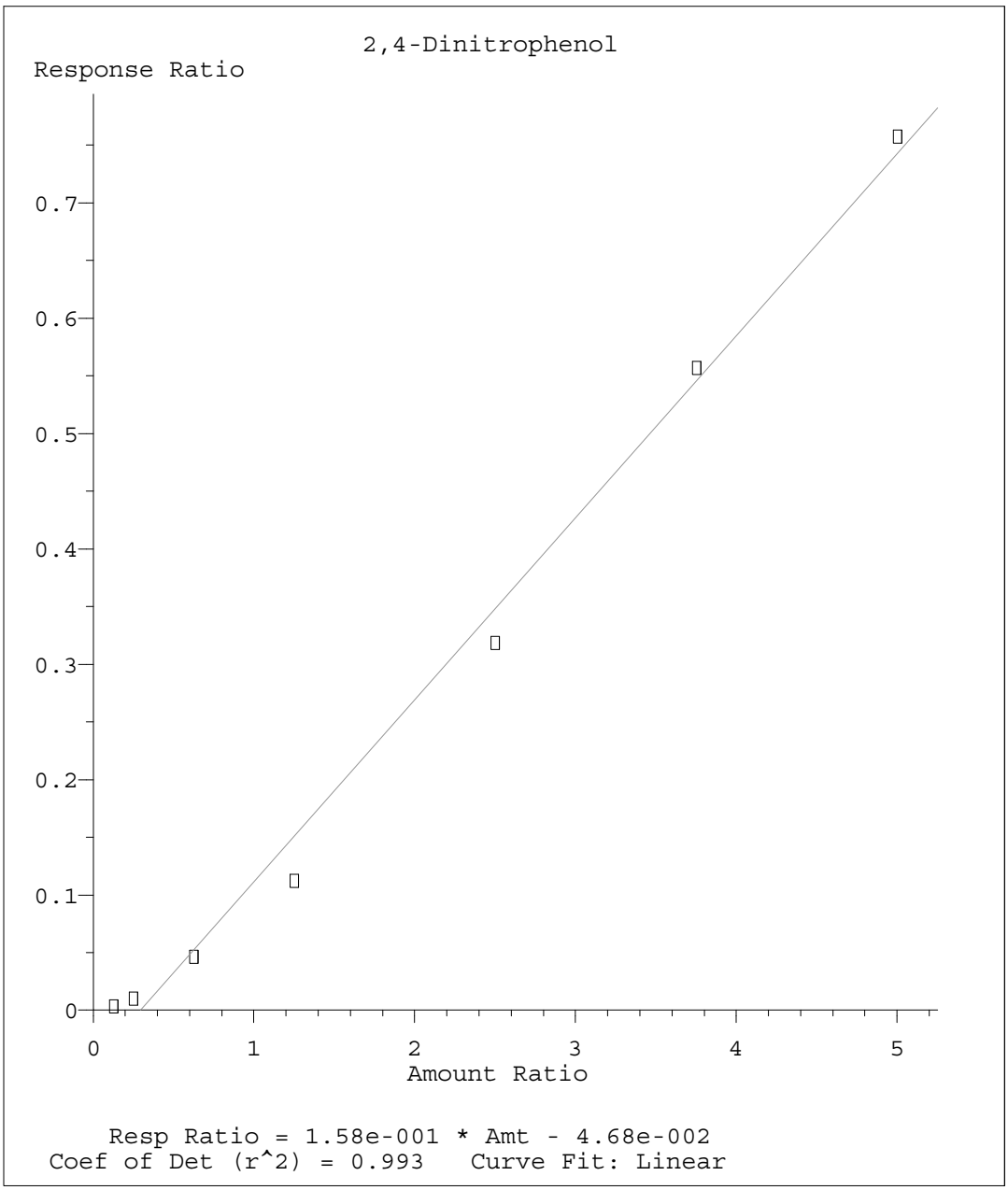


Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M



Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M
Calibration Table Last Updated: Fri Oct 17 10:07:59 2014



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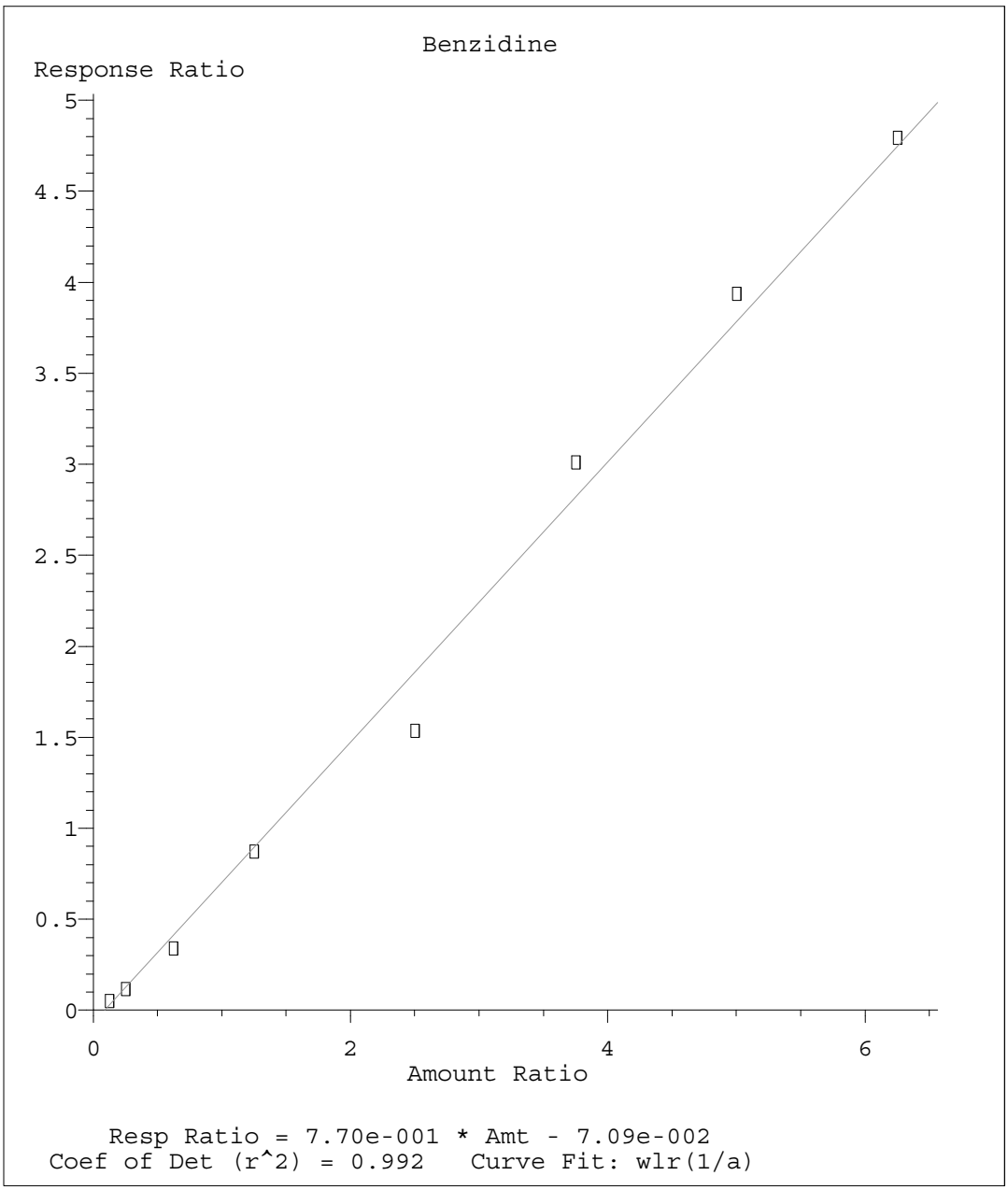
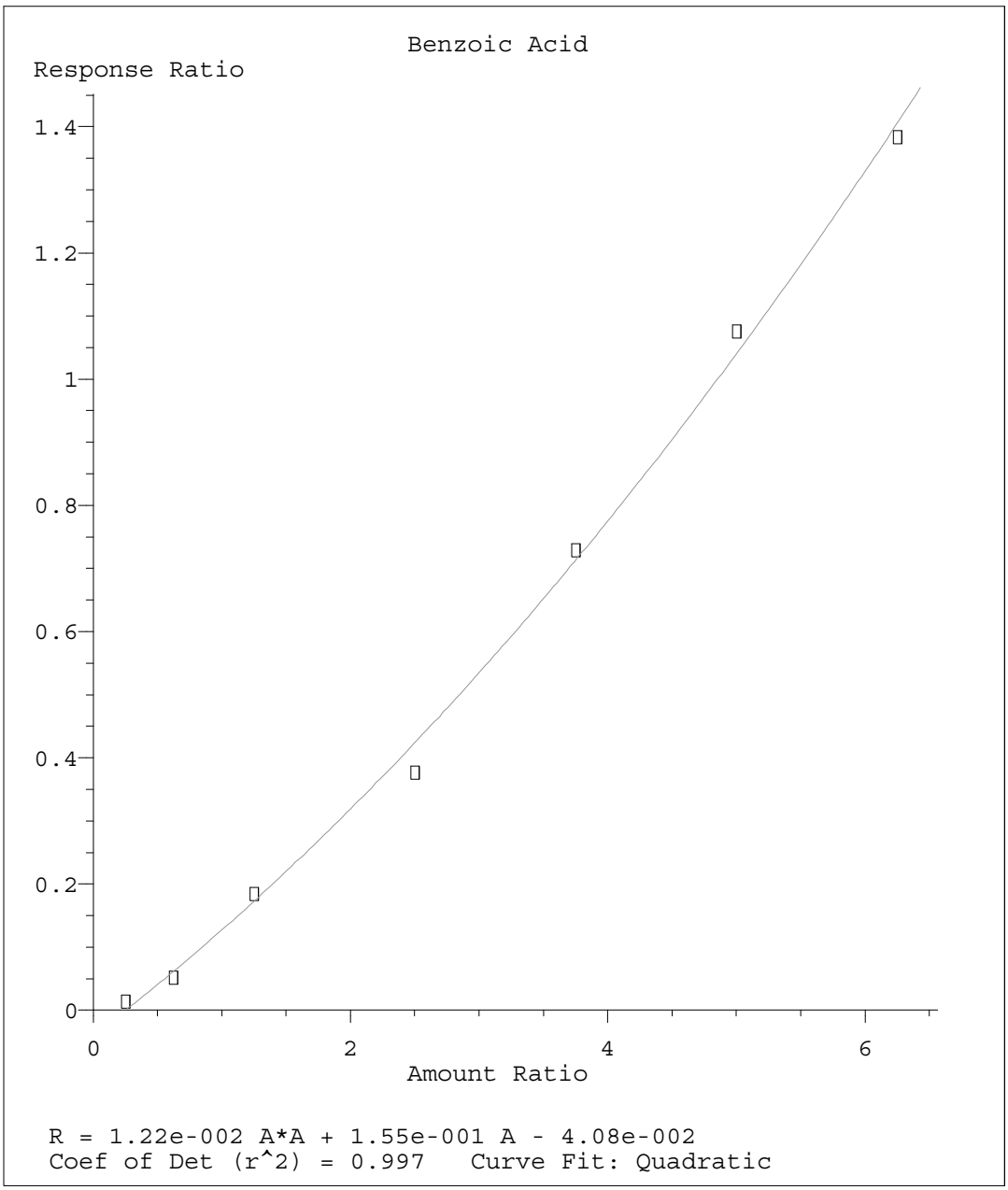
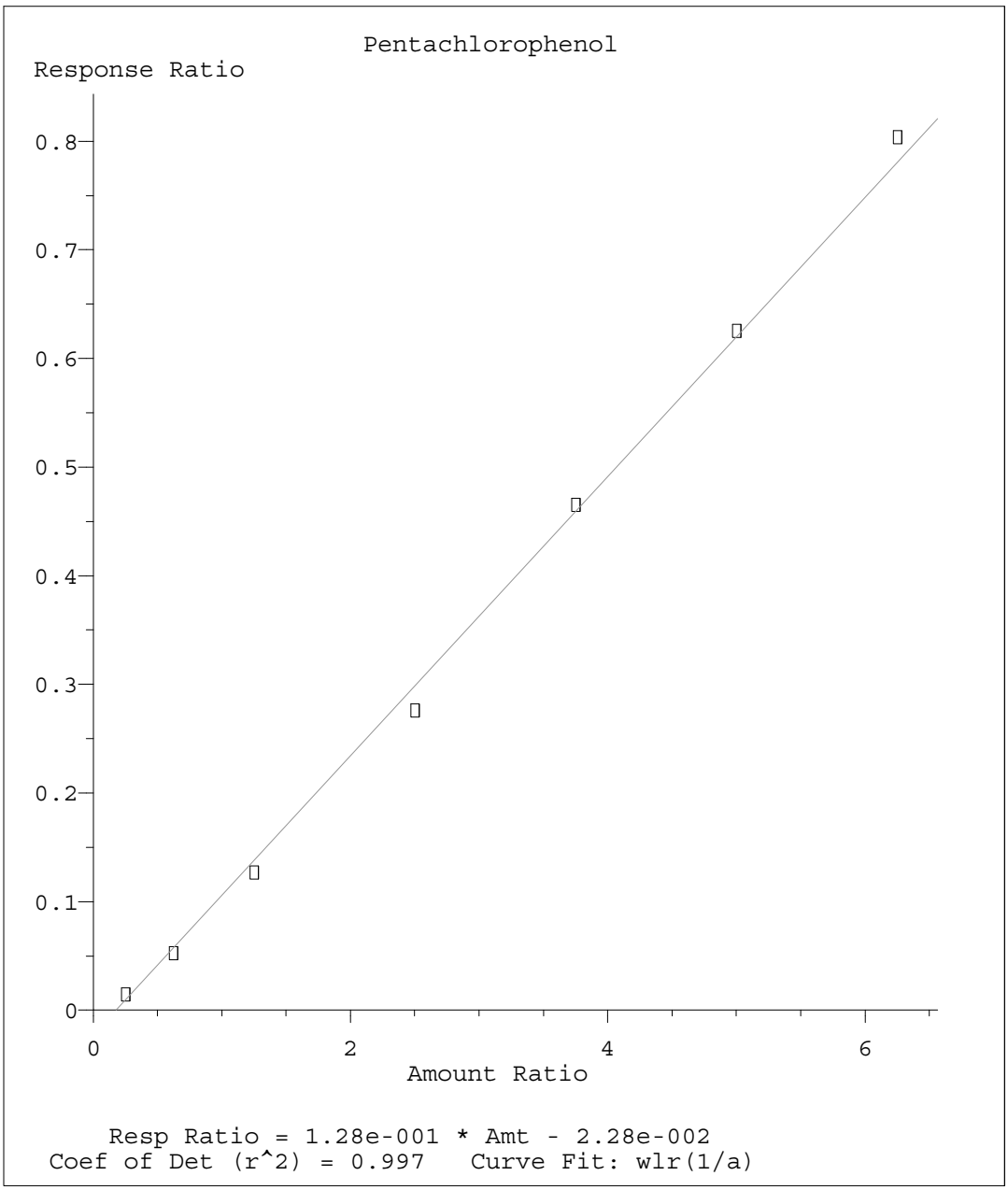


Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M



Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M



Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	171571	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	739988	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	475667	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	807948	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	894719	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1016727	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	5998	198.3265750 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 991.63%#		
7) Phenol-d5	4.71	99	7399	200.6739040 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 1003.37%#		
23) Nitrobenzene-d5	5.59	82	7624	212.8970075 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 2128.97%#		
44) 2-Fluorobiphenyl	7.46	172	16734	208.1532728 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 2081.53%#		
67) 2,4,6-Tribromophenol	9.04	330	1043	113.7922223 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 568.96%#		
81) p-Terphenyl-d14	11.52	244	22690	208.9961198 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 2089.96%#		

Target Compounds					Qvalue
2) Pyridine	2.99	79	14182	294.1526304 ppb #	85
3) N-Nitrosodimethylamine	2.97	42	8283	338.2525385 ppb #	53
5) Aniline	4.78	66	3806	208.3430384 ppb	93
6) bis(2-Chloroethyl)ether	4.82	63	5107	201.5550638 ppb	93
8) Phenol	4.73	94	7768	204.3119538 ppb	95
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	6487	195.9548563 ppb	97
11) n-Decane	4.91	41	4209	213.8590906 ppb #	76
12) 1,3-Dichlorobenzene	5.02	146	7470	204.0007454 ppb	98
13) 1,4-Dichlorobenzene	5.09	146	7771	207.8108203 ppb #	76
14) Benzyl Alcohol	5.19	79	6273	225.9173620 ppb	87
15) 1,2-Dichlorobenzene	5.24	146	6846	191.2777498 ppb	94
16) bis(2-Chloroisopropyl)ethe	5.32	121	2464	229.8552517 ppb	87
17) 2-Methylphenol	5.28	108	5970	199.4584417 ppb	96
18) Hexachloroethane	5.56	117	3084	191.9264119 ppb	93
19) N-Nitrosodi-n-propylamine	5.43	70	5994	238.2947871 ppb	97
20) 3&4-Methyl phenol	5.43	107	6770	197.0457538 ppb	93
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	6708	189.8889090 ppb	98
25) Isophorone	5.85	82	12980	209.6496904 ppb	100
26) 2-Nitrophenol	5.93	139	3122	177.9860277 ppb	90
27) 2,4-Dimethylphenol	5.96	107	7312	220.6648781 ppb	94
28) bis(2-Chlorethoxy)methane	6.06	93	8545	210.2303588 ppb	95
29) 2,4-Dichlorophenol	6.17	162	5283	189.9391697 ppb	93
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	6409	206.4009399 ppb	95
32) Naphthalene	6.35	128	26411	243.6881939 ppb	98
33) 4-Chloroaniline	6.39	65	3143	232.6191992 ppb	77
34) Hexachloro-1,3-butadiene	6.47	225	3691	212.9645406 ppb	92
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	6880	217.3191081 ppb	98
37) 2-Methylnaphthalene	7.07	142	15790	210.3317313 ppb	99
38) 1-Methylnaphthalene	7.18	142	14507	207.9380563 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

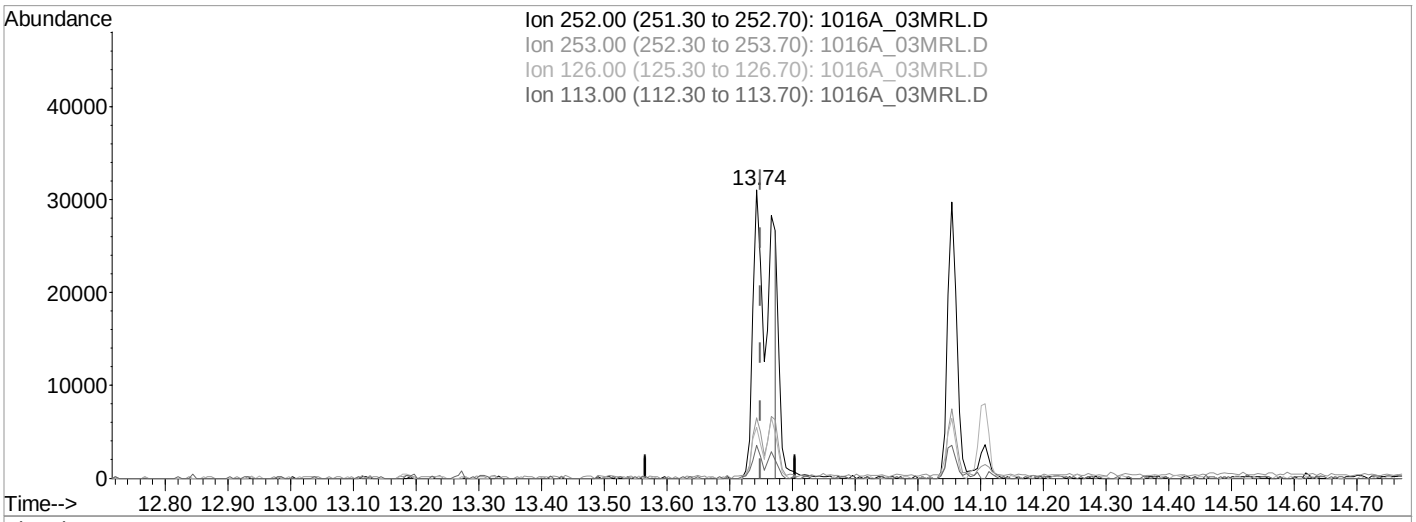
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	1005	60.0581458 ppb	#	87
42)	2,4,6-Trichlorophenol	7.37	196	3042	158.1062090 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	3433	159.6805511 ppb		91
45)	Biphenyl	7.57	154	18328	206.8452856 ppb		95
46)	2-Chloronaphthalene	7.59	162	14371	203.0097131 ppb		96
47)	2-Nitroaniline	7.70	138	4501	191.6718209 ppb	#	94
48)	Acenaphthylene	8.04	152	23673	203.0507623 ppb		99
49)	Dimethyl phthalate	7.89	163	16898	211.3055902 ppb		95
50)	2,6-Dinitrotoluene	7.96	165	2941	163.5598865 ppb		91
51)	3-Nitroaniline	8.13	138	3100	147.7861975 ppb	#	85
52)	Acenaphthene	8.23	153	15022	203.2170019 ppb		96
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.41	168	21276	207.0243699 ppb		98
55)	2,4-Dinitrotoluene	8.39	165	3804	158.0560800 ppb		95
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.31	139	1715	863.9174482 ppb	#	81
58)	Fluorene	8.78	166	17644	207.8011294 ppb		94
59)	4-Chlorophenyl-phenylether	8.78	204	7516	203.2388660 ppb		96
60)	Diethyl phthalate	8.64	149	18634	214.6825752 ppb		98
61)	4-Nitroaniline	8.79	138	3542	165.0780695 ppb	#	93
62)	Azobenzene	8.95	77	20432	230.0871070 ppb		88
63)	Atrazine	0.00	200	0	N.D.		
65)	4,6-Dinitro-2-methylphenol	8.83	198	645	1439.0238256 ppb		86
66)	N-Nitrosodiphenylamine	8.90	169	13498	197.2345974 ppb		95
68)	4-Bromophenyl-phenylether	9.31	248	4293	204.8466665 ppb	#	82
69)	Hexachlorobenzene	9.38	284	5029	212.7920120 ppb		97
70)	n-octadecane	9.65	55	3850	268.0388732 ppb	#	62
71)	Pentachlorophenol	9.59	266	501	1457.2565155 ppb		90
72)	Phenanthrene	9.82	178	24721	206.7044585 ppb		98
73)	Anthracene	9.88	178	24271	198.2471270 ppb		96
74)	Carbazole	10.05	167	23777	199.5844208 ppb		99
75)	Di-n-butyl phthalate	10.40	149	32450	200.1699905 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.12	202	28558	202.4933299 ppb		98
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	29162	206.4900933 ppb		99
82)	Benzylbutyl phthalate	12.02	149	16043	210.5557728 ppb		93
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	32693	223.1239153 ppb		95
85)	Chrysene	12.70	228	28029	210.9296387 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.61	149	28628	242.4251978 ppb		99
87)	Di-n-octyl phthalate	13.27	149	42752	208.6177030 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	31726m	195.8515076 ppb		
90)	Benzo(k)fluoranthene	13.77	252	32235m	219.2078740 ppb		
91)	Benzo(a)pyrene	14.05	252	30574	201.6126404 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.17	276	32247	193.1070021 ppb		93
93)	Dibenz(a,h)anthracene	15.16	278	25204	180.8036921 ppb		96
94)	Benzo(g,h,i)perylene	15.48	276	27011	194.9176838 ppb		95

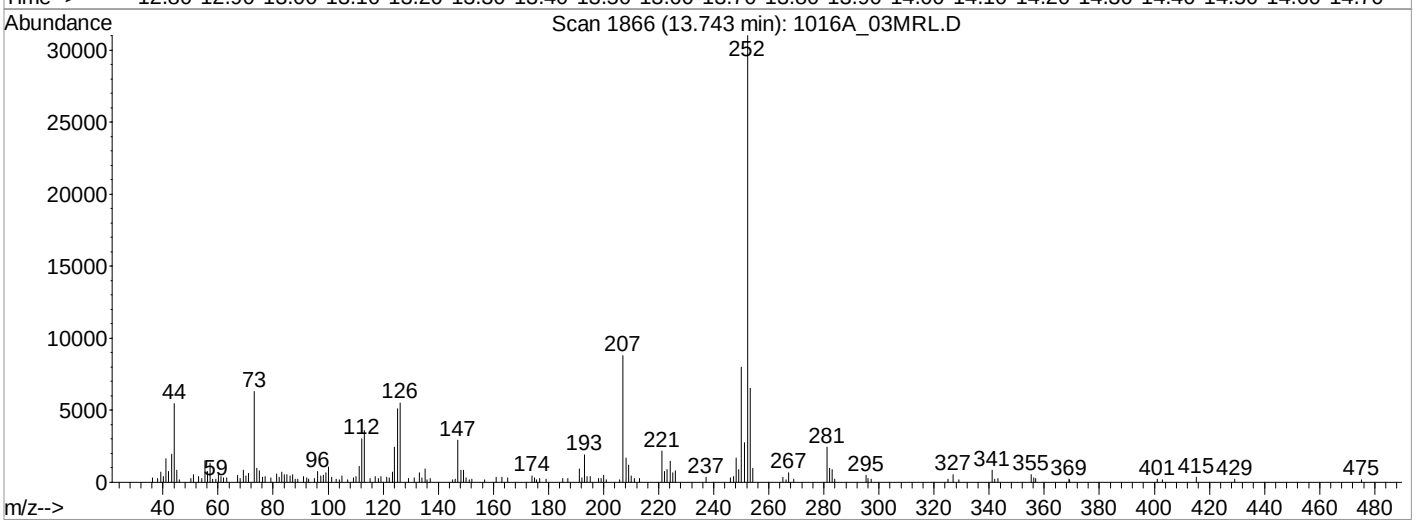
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_03MRL.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 349.9905826 ppb

Qvalue = 92

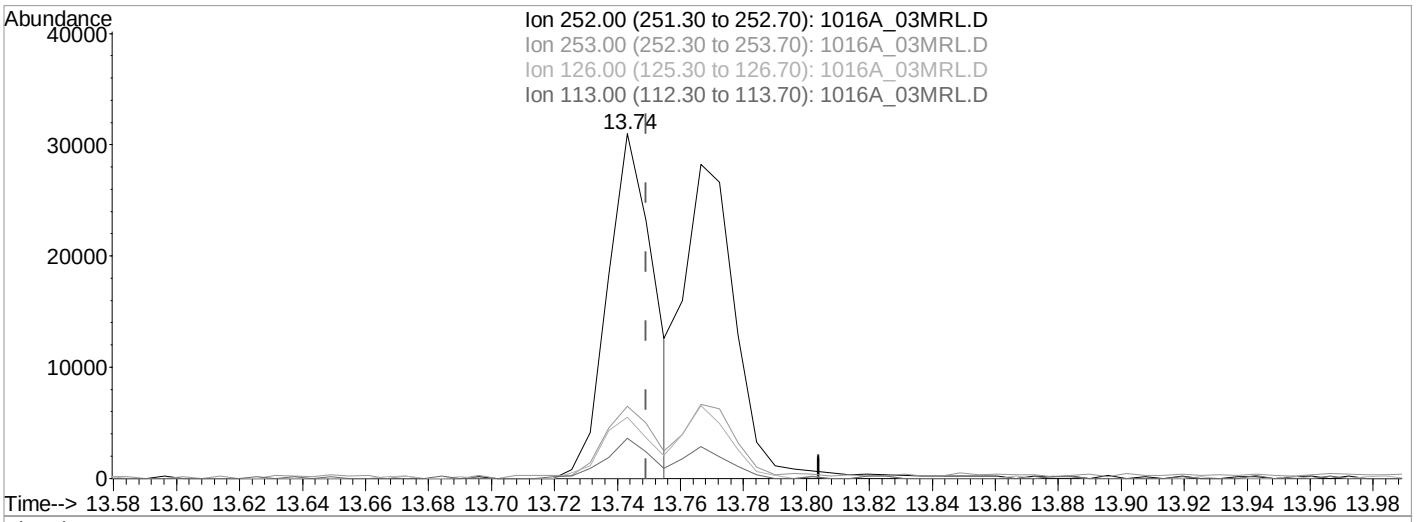
response 56695

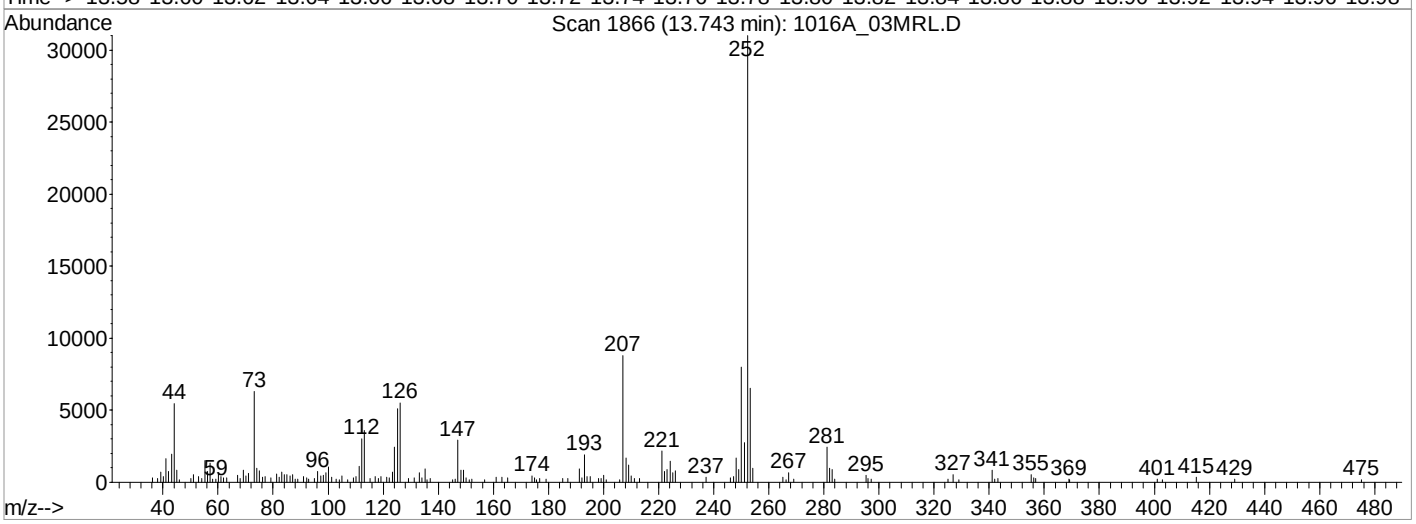
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	18.22
126.00	19.90	17.22
113.00	9.50	14.73

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_03MRL.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 195.8515076 ppb m

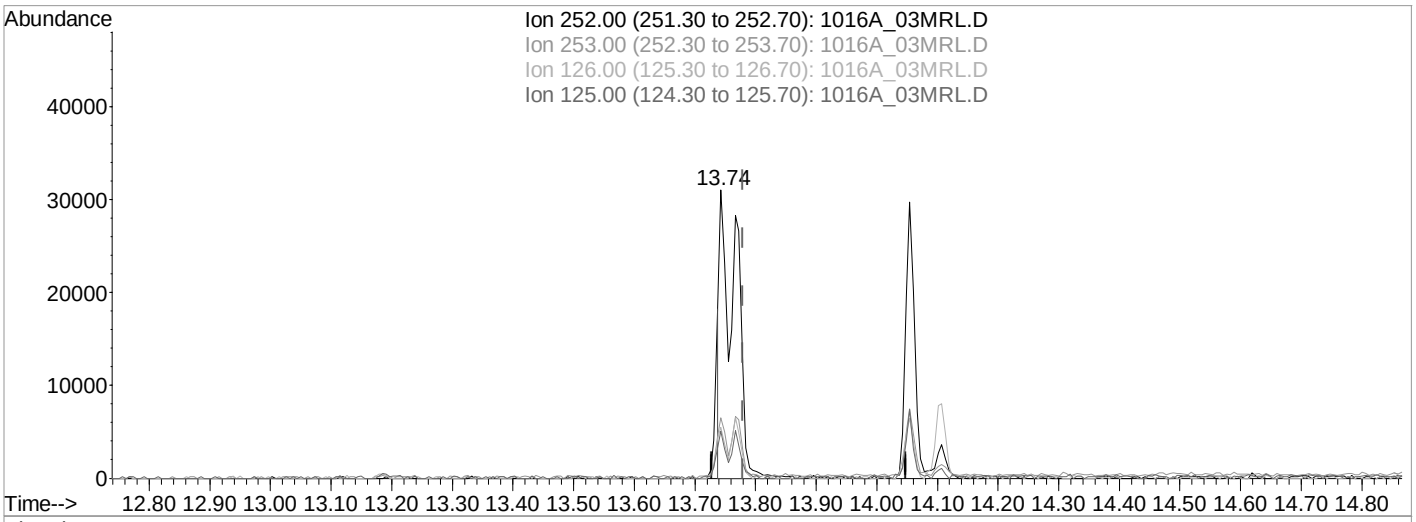
response 31726

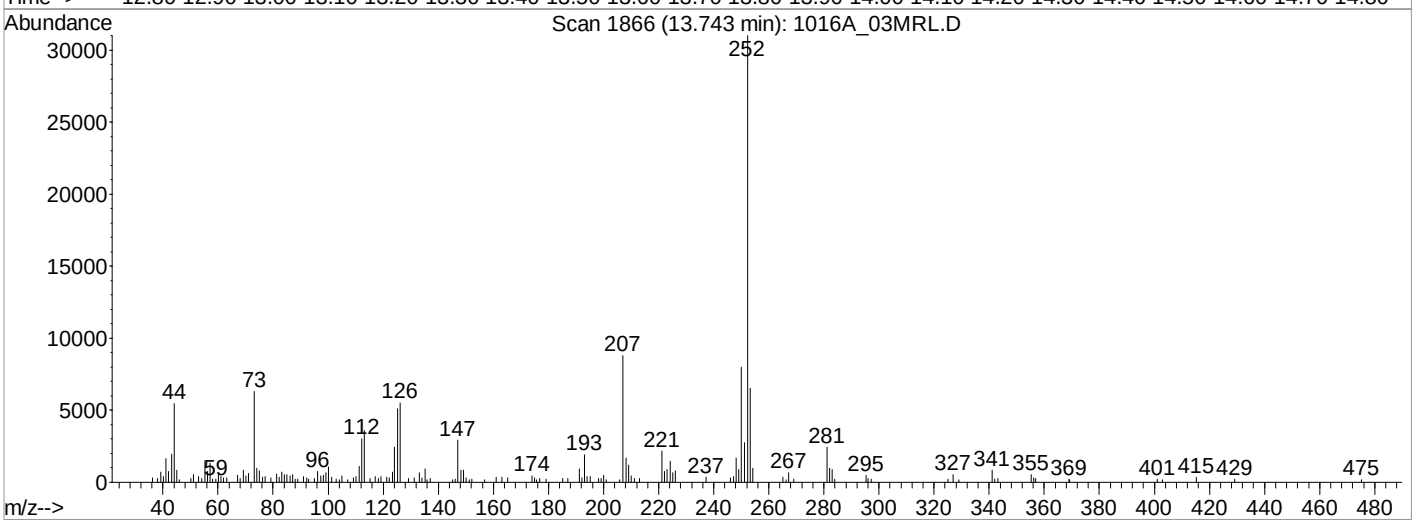
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.96
126.00	19.90	17.75
113.00	9.50	11.55

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_03MRL.D

(90) Benzo(k)fluoranthene (MT)

13.74min (-0.035) 381.7487955 ppb

Qvalue = 95

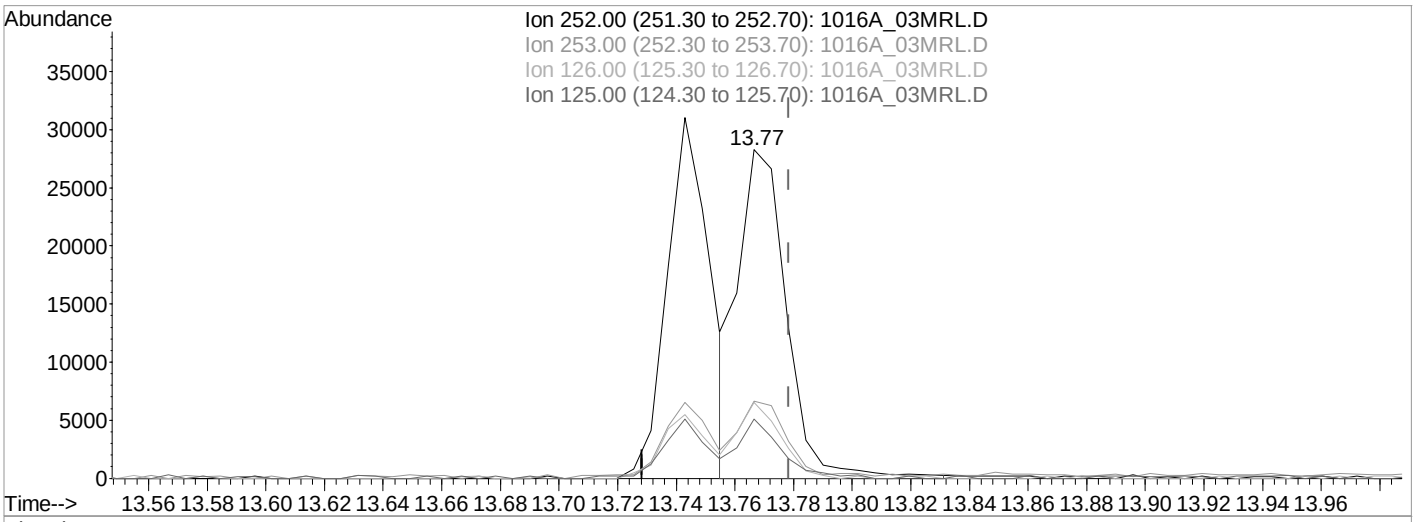
response 56137

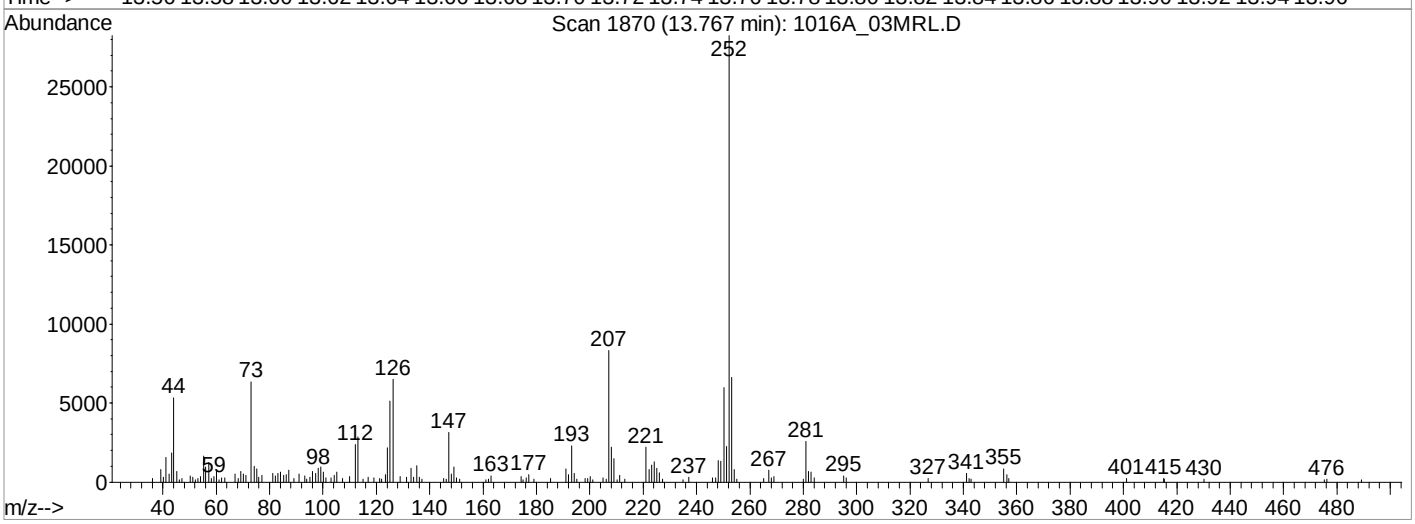
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	19.97
126.00	19.90	17.08
125.00	13.60	16.42

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_03MRL.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 219.2078740 ppb m

response 32235

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	23.45
126.00	19.90	23.04
125.00	13.60	18.13

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:17 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	177960	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	756641	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	483307	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	834848	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	930735	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1073123	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	3.99	112	61442	1958.6700381 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 9793.35%#		
7) Phenol-d5	4.71	99	75362	1970.5695761 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 9852.85%#		
23) Nitrobenzene-d5	5.59	82	72533	1980.8752063 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 19808.75%#		
44) 2-Fluorobiphenyl	7.46	172	165084	2021.0097091 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 20210.10%#		
67) 2,4,6-Tribromophenol	9.04	330	16903	1784.7116604 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 8923.56%#		
81) p-Terphenyl-d14	11.51	244	231035	2045.7008172 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 20457.01%#		

Target Compounds

						Qvalue
2) Pyridine	2.97	79	98488	1969.4277773 ppb		98
3) N-Nitrosodimethylamine	2.95	42	52807	2079.0569432 ppb		93
5) Aniline	4.78	66	37784	1994.0664546 ppb		94
6) bis(2-Chloroethyl)ether	4.82	63	51781	1970.2429160 ppb		95
8) Phenol	4.72	94	77848	1974.0288929 ppb		95
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.88	128	67967	1979.3915841 ppb		98
11) n-Decane	4.91	41	40495	1983.6802929 ppb	#	97
12) 1,3-Dichlorobenzene	5.02	146	75400	1985.1987074 ppb		99
13) 1,4-Dichlorobenzene	5.09	146	77582	2000.2012957 ppb		97
14) Benzyl Alcohol	5.19	79	55469	1925.9550310 ppb		98
15) 1,2-Dichlorobenzene	5.24	146	75377	2030.4294000 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	22785	2049.1995220 ppb		97
17) 2-Methylphenol	5.28	108	61820	1991.2627830 ppb		99
18) Hexachloroethane	5.56	117	33181	1990.8169551 ppb		98
19) N-Nitrosodi-n-propylamine	5.44	70	50145	1921.9714160 ppb		99
20) 3&4-Methyl phenol	5.43	107	70618	1981.5968856 ppb		99
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	73296	2029.1849197 ppb		95
25) Isophorone	5.85	82	128693	2032.8683969 ppb		100
26) 2-Nitrophenol	5.93	139	34107	1901.6532918 ppb		92
27) 2,4-Dimethylphenol	5.96	107	69805	2060.2426323 ppb		99
28) bis(2-Chlorethoxy)methane	6.06	93	83930	2019.4606441 ppb		97
29) 2,4-Dichlorophenol	6.17	162	56329	1980.6182310 ppb		92
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.26	180	64638	2035.8422156 ppb		98
32) Naphthalene	6.35	128	223205	2014.1340397 ppb		100
33) 4-Chloroaniline	6.39	65	27150	1965.1957472 ppb		100
34) Hexachloro-1,3-butadiene	6.47	225	36239	2044.9103074 ppb		98
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.89	107	65183	2013.6251500 ppb		97
37) 2-Methylnaphthalene	7.07	142	157887	2056.8558010 ppb		98
38) 1-Methylnaphthalene	7.18	142	143643	2013.6113120 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:17 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

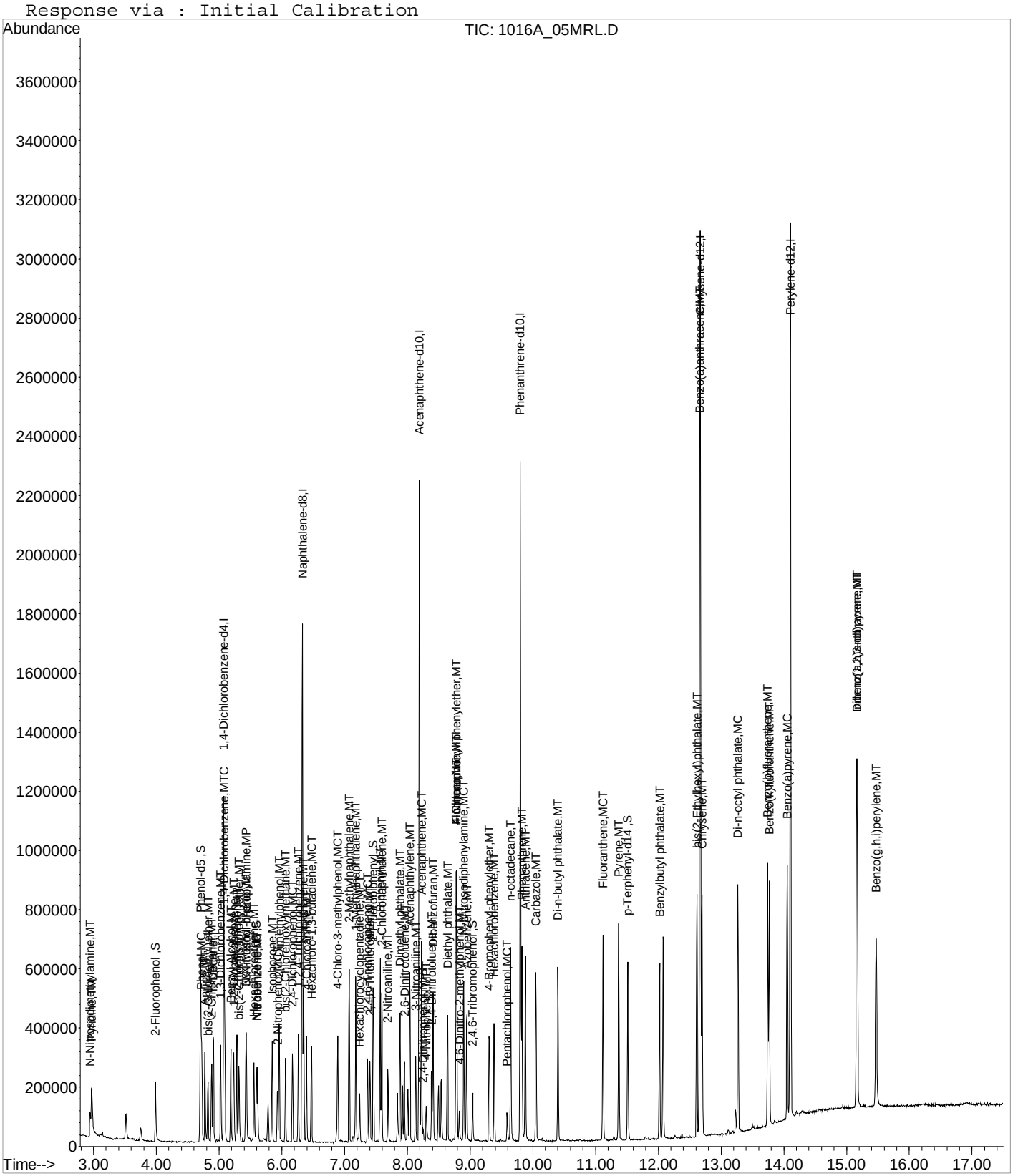
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.24	237	25022	1471.6611169 ppb	98
42)	2,4,6-Trichlorophenol	7.37	196	34267	1752.8539742 ppb	93
43)	2,4,5-Trichlorophenol	7.40	196	41893	1917.7836805 ppb	95
45)	Biphenyl	7.57	154	182568	2027.8468209 ppb	100
46)	2-Chloronaphthalene	7.59	162	147224	2046.8611286 ppb	99
47)	2-Nitroaniline	7.69	138	44773	1876.4862577 ppb	96
48)	Acenaphthylene	8.04	152	241984	2042.7626802 ppb	99
49)	Dimethyl phthalate	7.88	163	163424	2011.2749964 ppb	99
50)	2,6-Dinitrotoluene	7.96	165	36064	1973.9475451 ppb	99
51)	3-Nitroaniline	8.13	138	39953	1874.5693583 ppb	98
52)	Acenaphthene	8.23	153	151405	2015.8231907 ppb	98
53)	2,4-Dinitrophenol	8.25	184	4076m	2799.0199131 ppb	
54)	Dibenzofuran	8.41	168	214018	2049.5651526 ppb	99
55)	2,4-Dinitrotoluene	8.39	165	43296	1770.5101092 ppb	96
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d	
57)	4-Nitrophenol	8.30	139	22202	2055.7874578 ppb	95
58)	Fluorene	8.78	166	176566	2046.6230942 ppb	100
59)	4-Chlorophenyl-phenylether	8.78	204	77335	2058.1452397 ppb	93
60)	Diethyl phthalate	8.64	149	170473	1932.9750415 ppb	99
61)	4-Nitroaniline	8.79	138	41302	1894.4879372 ppb	96
62)	Azobenzene	8.95	77	178867	1982.4012550 ppb	98
63)	Atrazine	0.00	200	0	N.D. d	
65)	4,6-Dinitro-2-methylphenol	8.83	198	13679	2399.8468908 ppb	90
66)	N-Nitrosodiphenylamine	8.90	169	142243	2011.5024996 ppb	96
68)	4-Bromophenyl-phenylether	9.31	248	43126	1991.5132044 ppb	91
69)	Hexachlorobenzene	9.38	284	49727	2036.3008554 ppb	99
70)	n-octadecane	9.65	55	30769	2073.1295163 ppb	99
71)	Pentachlorophenol	9.59	266	12075	2319.2872371 ppb	86
72)	Phenanthrene	9.82	178	245280	1984.8237421 ppb	99
73)	Anthracene	9.88	178	251017	1984.2590331 ppb	99
74)	Carbazole	10.05	167	244893	1989.3992540 ppb	100
75)	Di-n-butyl phthalate	10.40	149	325038	1940.4140194 ppb	98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.12	202	284144	1949.8330253 ppb	99
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.37	202	298945	2034.8566658 ppb	98
82)	Benzylbutyl phthalate	12.02	149	152955	1929.7713838 ppb	98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d	
84)	Benzo(a)anthracene	12.66	228	303960	1994.1985577 ppb	99
85)	Chrysene	12.70	228	282965	2047.0259125 ppb	98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	238728	1943.3486547 ppb	98
87)	Di-n-octyl phthalate	13.27	149	426651	2001.3733152 ppb	99
89)	Benzo(b)fluoranthene	13.74	252	330835	1934.9863305 ppb	98
90)	Benzo(k)fluoranthene	13.77	252	323808	2086.2718748 ppb	98
91)	Benzo(a)pyrene	14.05	252	316798	1979.2596953 ppb	97
92)	Indeno(1,2,3-cd)pyrene	15.16	276	353985	2008.3916965 ppb	95
93)	Dibenz(a,h)anthracene	15.16	278	297039	2018.8597594 ppb	95
94)	Benzo(g,h,i)perylene	15.47	276	295631	2021.2284626 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:17 2014 Quant Results File: S804J16N.RES

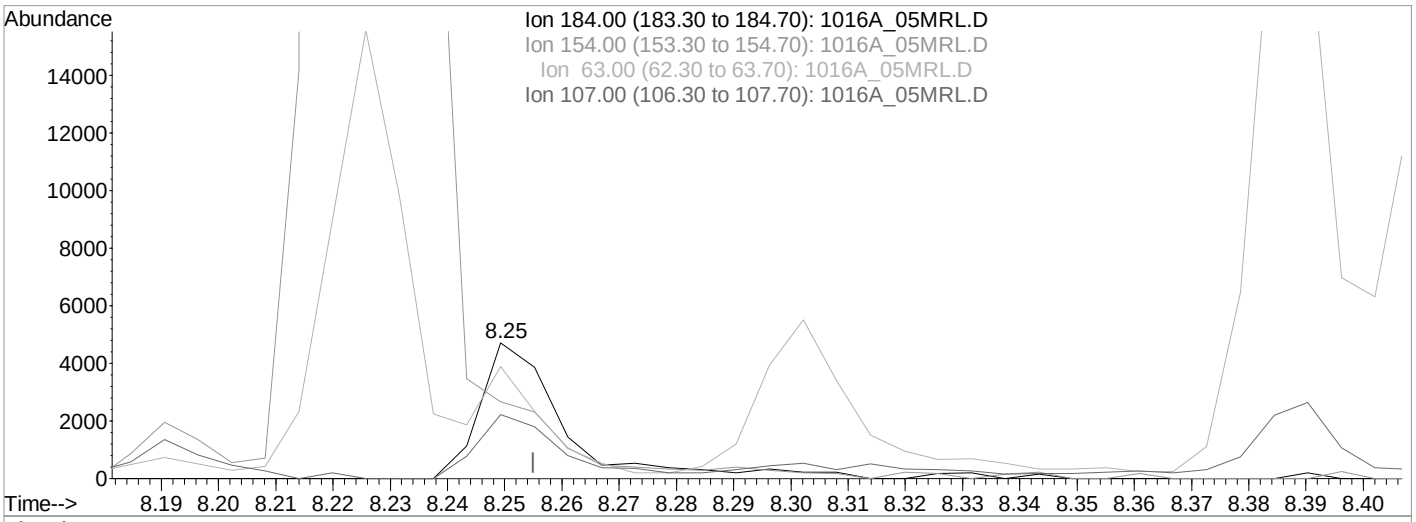
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

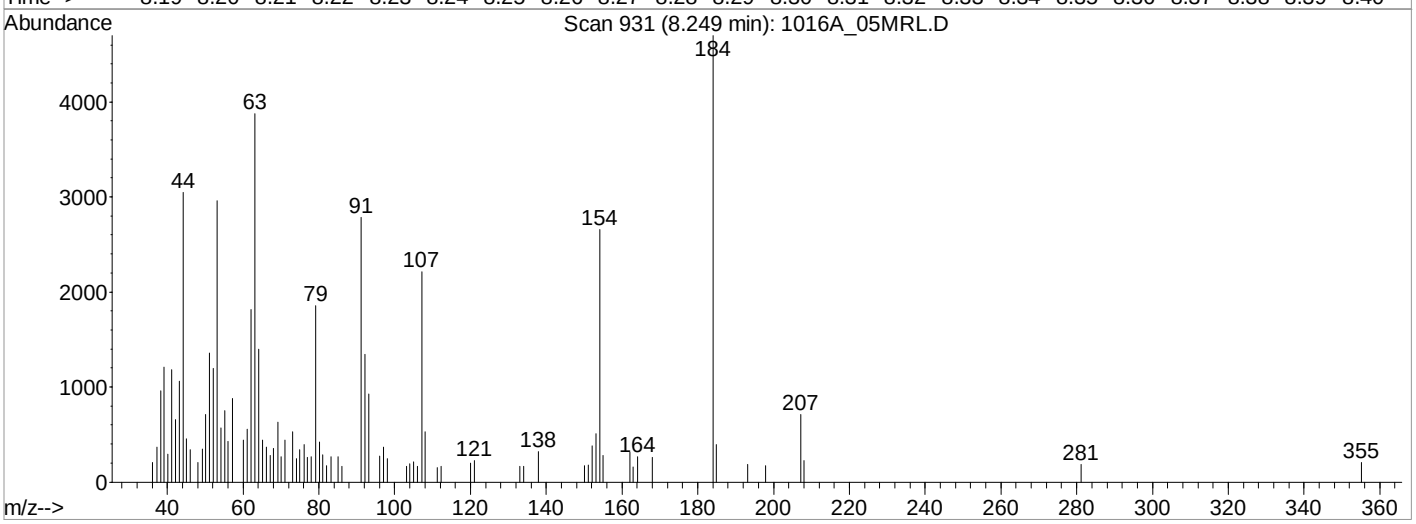


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:16 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_05MRL.D

(53) 2,4-Dinitrophenol (MPT)

8.25min (-0.006) 2877.3617944 ppb

Qvalue = 92

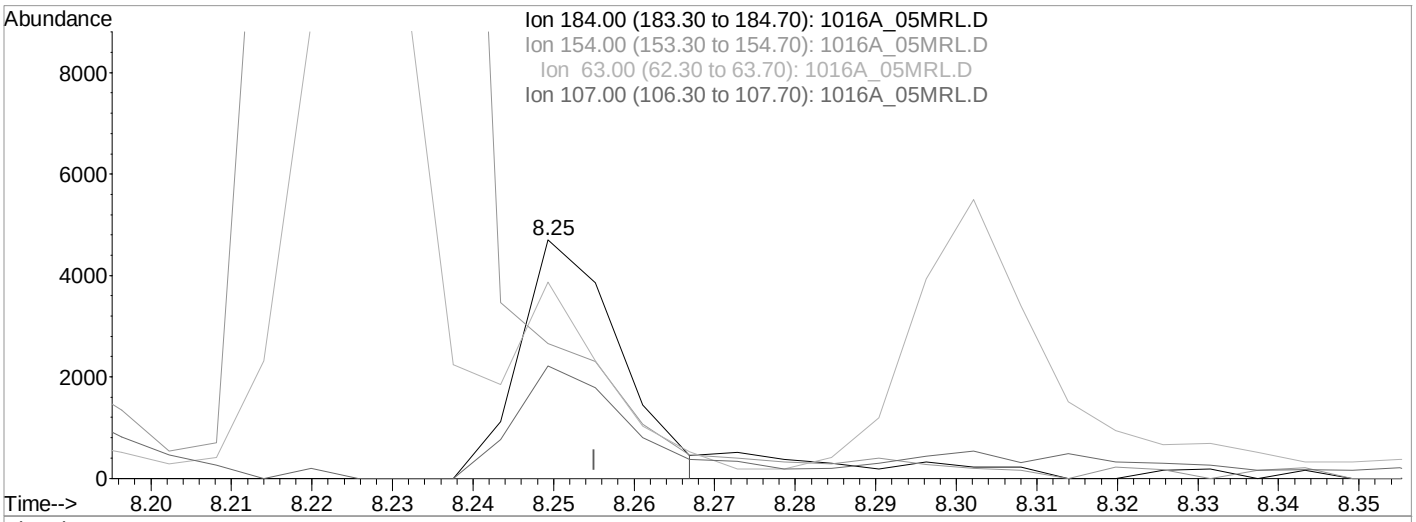
response 4823

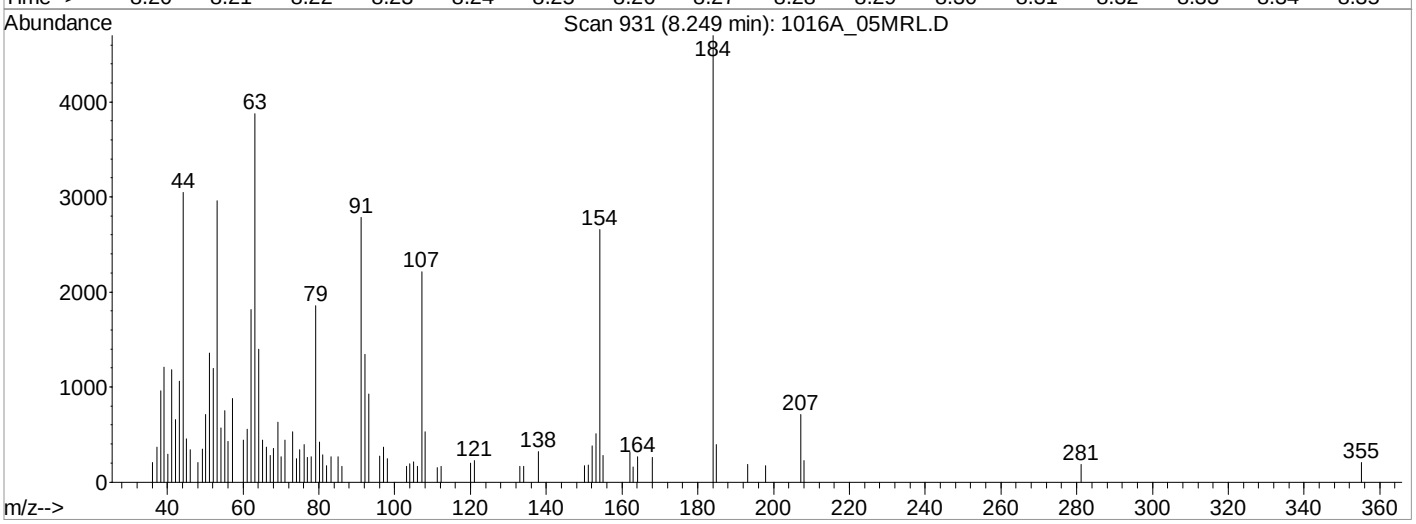
Ion	Exp%	Act%
184.00	100	100
154.00	50.60	56.52
63.00	0.00	50.22#
107.00	42.70	47.10

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_05MRL.D

(53) 2,4-Dinitrophenol (MPT)

8.25min (-0.006) 2799.0199131 ppb m

response 4076

Ion	Exp%	Act%
184.00	100	100
154.00	50.60	56.52
63.00	0.00	82.39#
107.00	42.70	47.10

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	208854	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	920461	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	592768	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1017835	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1166590	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1308304	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery	= 0.00%#	
7) Phenol-d5	0.00	99	0d	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	4.69	105	37704	1815.0533426 ppb		94
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. d		
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d		
20) 3&4-Methyl phenol	0.00	107	0	N.D. d		
21) Acetophenone	5.45	105	102996	1986.2415986 ppb	#	94
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. d		
27) 2,4-Dimethylphenol	0.00	107	0	N.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	6.04	105	12105	2714.7151250 ppb		86
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	6.72	113	22685	1895.5343235 ppb		98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d		
37) 2-Methylnaphthalene	0.00	142	0	N.D. 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\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

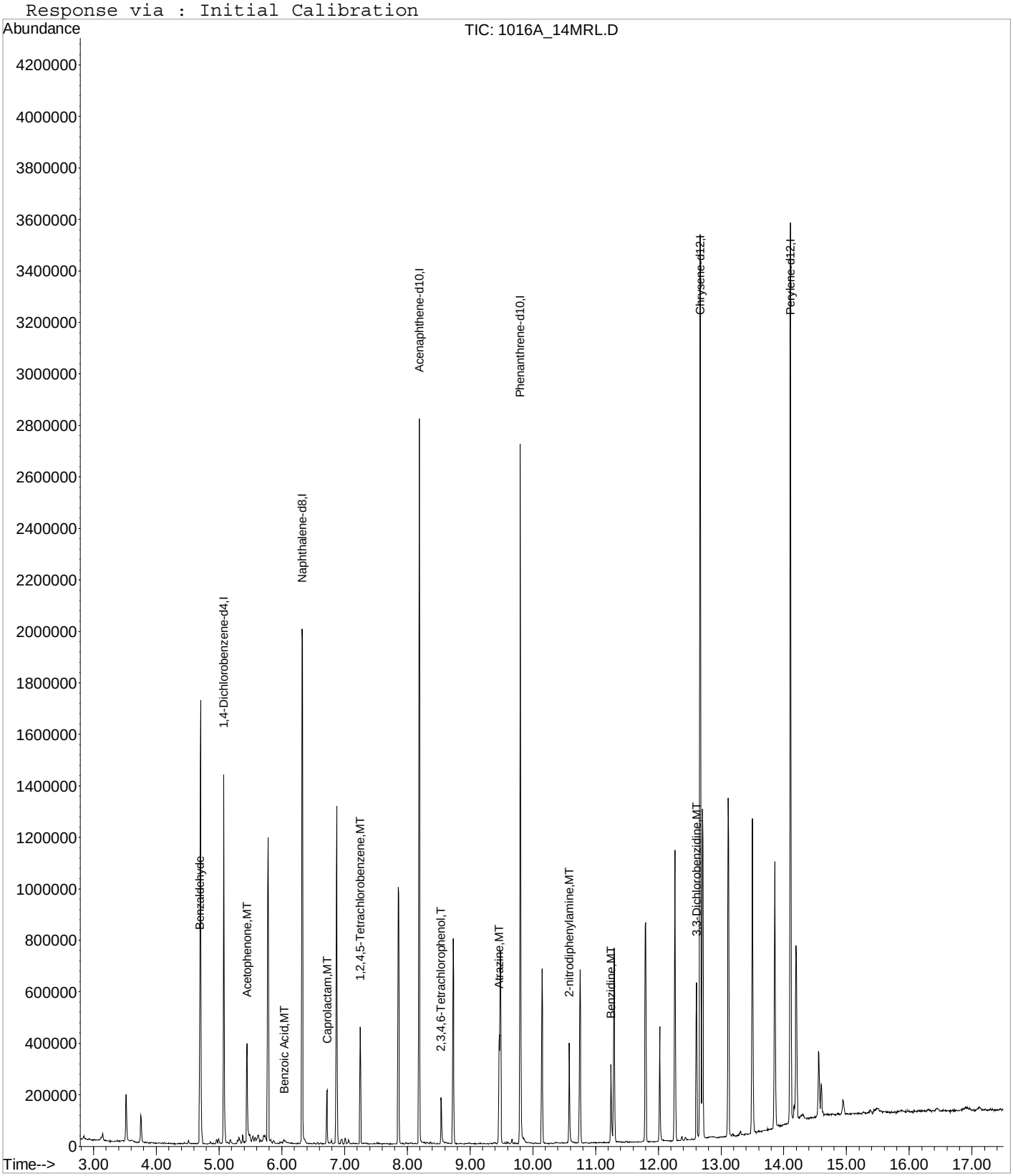
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	74238	2049.4761699 ppb		98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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. 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. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	25470	1572.8464652 ppb		97
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. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	43828	1902.2436691 ppb		97
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. 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	10.58	167	53788	1547.1745978 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	135495	1942.7028658 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	12.61	252	129299	1962.9697235 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.		
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\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: S804J16N.RES

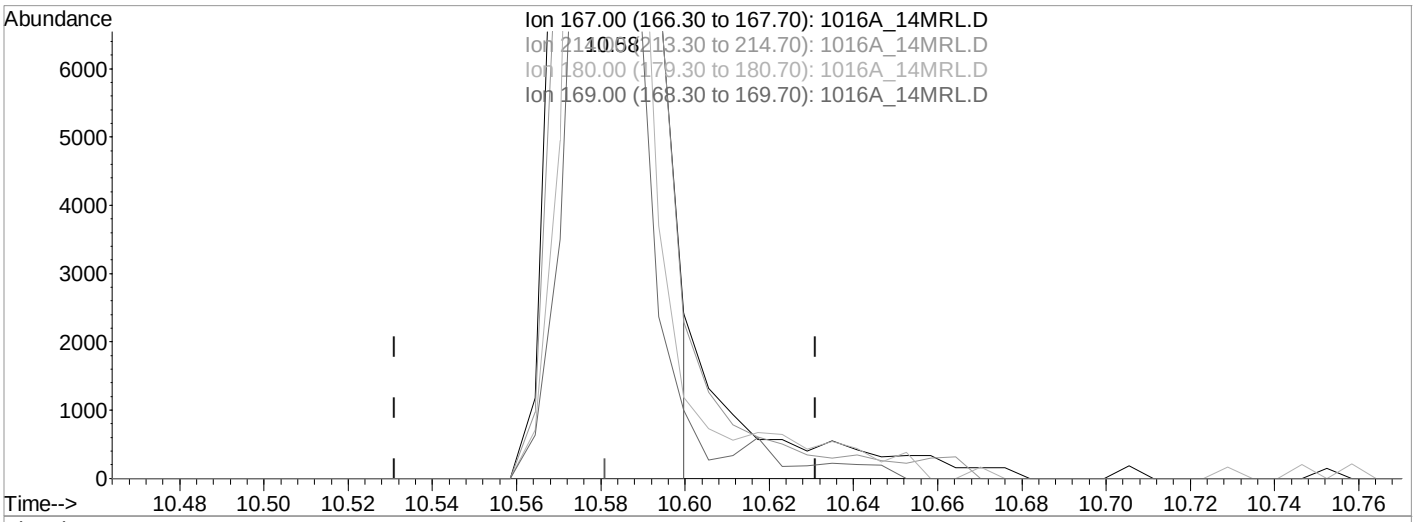
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

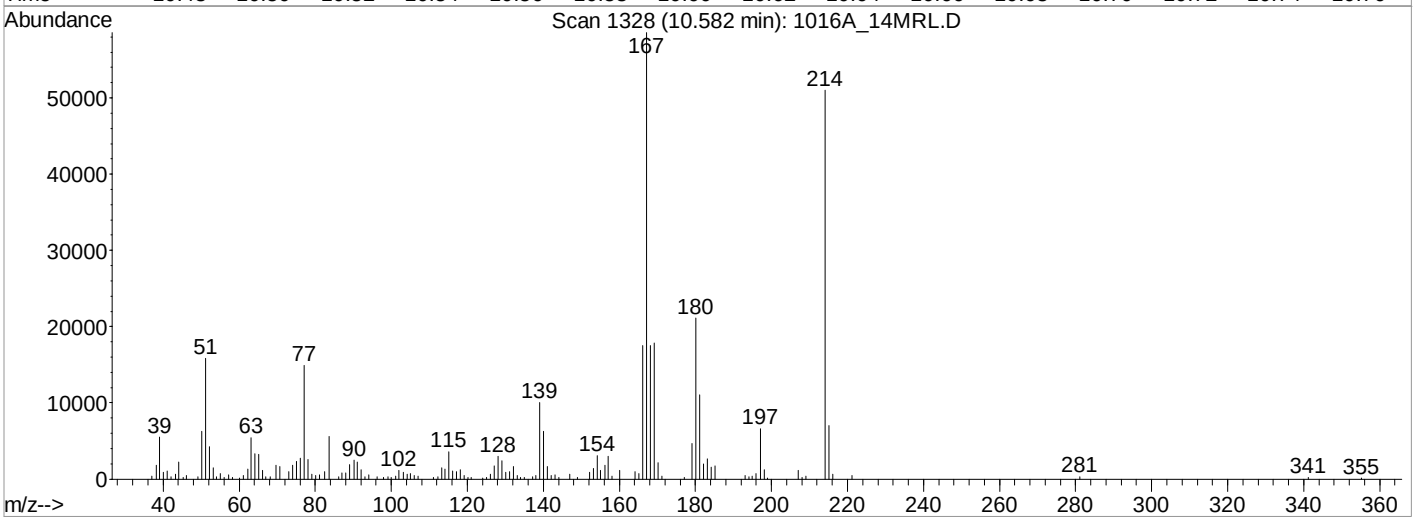


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Single Level Calibration





TIC: 1016A_14MRL.D

(76) 2-nitrodiphenylamine (MT)

10.58min (+0.001) 1547.1745978 ppb

Qvalue = 100

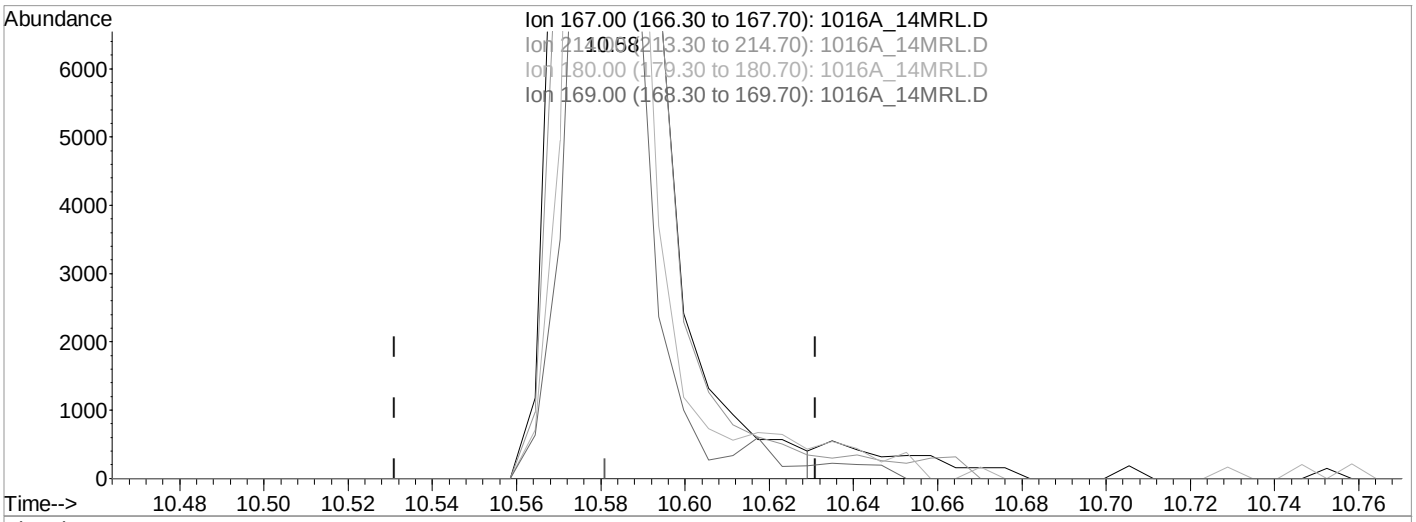
response 53788

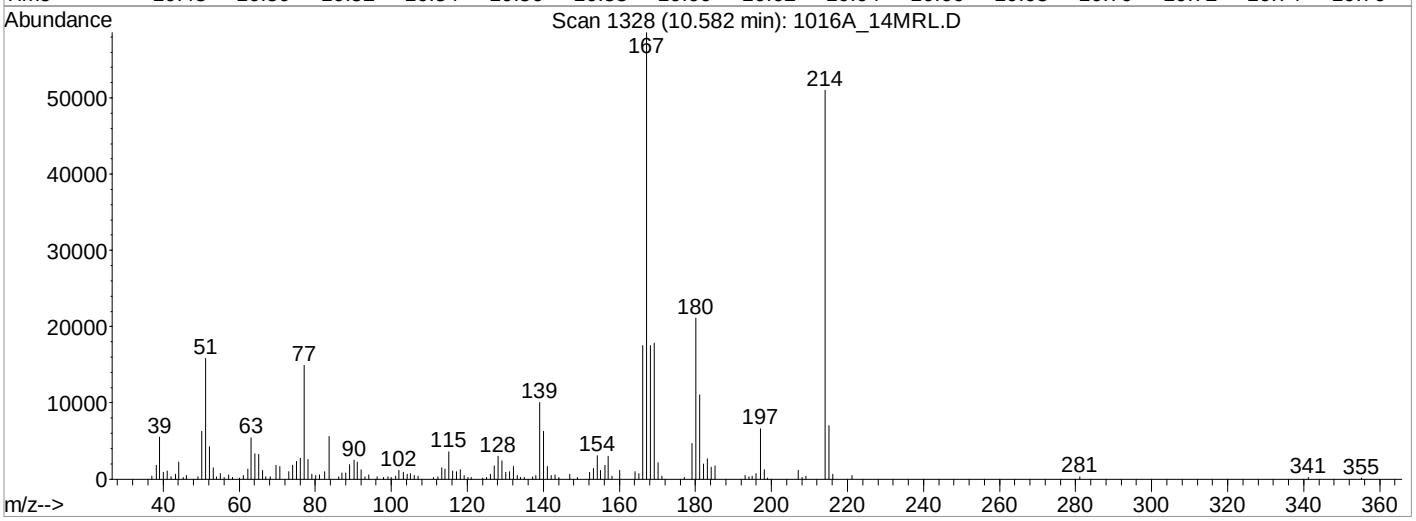
Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.08#
180.00	0.00	39.61#
169.00	0.00	30.25#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Single Level Calibration





TIC: 1016A_14MRL.D

(76) 2-nitrodiphenylamine (MT)

10.58min (+0.001) 1547.1745978 ppb

Qvalue = 100

response 53788

Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.08#
180.00	0.00	39.61#
169.00	0.00	30.25#

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 20.D Vial: 24
Acq On : 16 Oct 2014 11:11 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS4
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:11 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	218112	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	951545	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	611723	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1051173	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1304935	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1376185	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.91	112	67	1.7426637 ppb	-0.08
Spiked Amount 20.000	Range 10 - 74		Recovery = 8.71%#		
7) Phenol-d5	4.88	99	21344	455.3632805 ppb	0.16
Spiked Amount 20.000	Range 10 - 63		Recovery = 2276.82%#		
23) Nitrobenzene-d5	5.56	82	43296	940.2206595 ppb	-0.04
Spiked Amount 10.000	Range 28 - 123		Recovery = 9402.21%#		
44) 2-Fluorobiphenyl	7.40	172	529	5.1166695 ppb	-0.06
Spiked Amount 10.000	Range 35 - 133		Recovery = 51.17%		
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	11.52	244	56	0.3536629 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 3.54%#		

Target Compounds						Qvalue
2) Pyridine	2.97	79	586595	9570.5728752 ppb		99
3) N-Nitrosodimethylamine	2.94	42	287341	9230.2895438 ppb		98
5) Aniline	4.78	66	217545	9367.4986257 ppb		98
6) bis(2-Chloroethyl)ether	4.82	63	307540	9547.5906035 ppb		99
8) Phenol	4.73	94	461899	9556.4348722 ppb		98
9) Benzaldehyde	4.71	105	3814	175.8109385 ppb	#	1
10) 2-Chlorophenol	4.88	128	403958	9598.7055347 ppb		98
11) n-Decane	4.78	41	28237	1128.5782241 ppb	#	36
12) 1,3-Dichlorobenzene	5.02	146	442353	9502.6438330 ppb		99
13) 1,4-Dichlorobenzene	5.09	146	453590	9541.5524397 ppb		97
14) Benzyl Alcohol	5.19	79	322536	9137.2780074 ppb		99
15) 1,2-Dichlorobenzene	5.24	146	431233	9477.7198955 ppb		99
16) bis(2-Chloroisopropyl)ethe	5.32	121	150324	11030.7838207 ppb		99
17) 2-Methylphenol	5.28	108	360838	9483.1949818 ppb		98
18) Hexachloroethane	5.56	117	191686	9383.7211174 ppb		98
19) N-Nitrosodi-n-propylamine	5.44	70	294580	9212.2429661 ppb		98
20) 3&4-Methyl phenol	5.43	107	416761	9541.7889384 ppb		98
21) Acetophenone	5.43	105	4557	84.1499729 ppb	#	1
24) Nitrobenzene	5.62	77	428983	9443.6954446 ppb		98
25) Isophorone	5.85	82	775048	9735.1686240 ppb		97
26) 2-Nitrophenol	5.93	139	222794	9877.6093953 ppb		93
27) 2,4-Dimethylphenol	5.96	107	392282	9206.4194603 ppb		99
28) bis(2-Chlorethoxy)methane	6.06	93	510878	9774.5306083 ppb		96
29) 2,4-Dichlorophenol	6.17	162	341746	9555.0444136 ppb		95
30) Benzoic Acid	5.96	105	13531	2767.0743577 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.26	180	378626	9482.5944685 ppb		97
32) Naphthalene	6.35	128	1303943	9356.2883255 ppb		99
33) 4-Chloroaniline	6.39	65	157670	9074.9781579 ppb		98
34) Hexachloro-1,3-butadiene	6.47	225	233635	10483.2634859 ppb		98
35) Caprolactam	6.89	113	11288	912.4013739 ppb	#	21
36) 4-Chloro-3-methylphenol	6.89	107	380395	9344.1461196 ppb		97
37) 2-Methylnaphthalene	7.07	142	882067	9137.3358213 ppb		99
38) 1-Methylnaphthalene	7.18	142	853052	9508.8329996 ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 20.D Vial: 24
Acq On : 16 Oct 2014 11:11 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS4
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:11 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

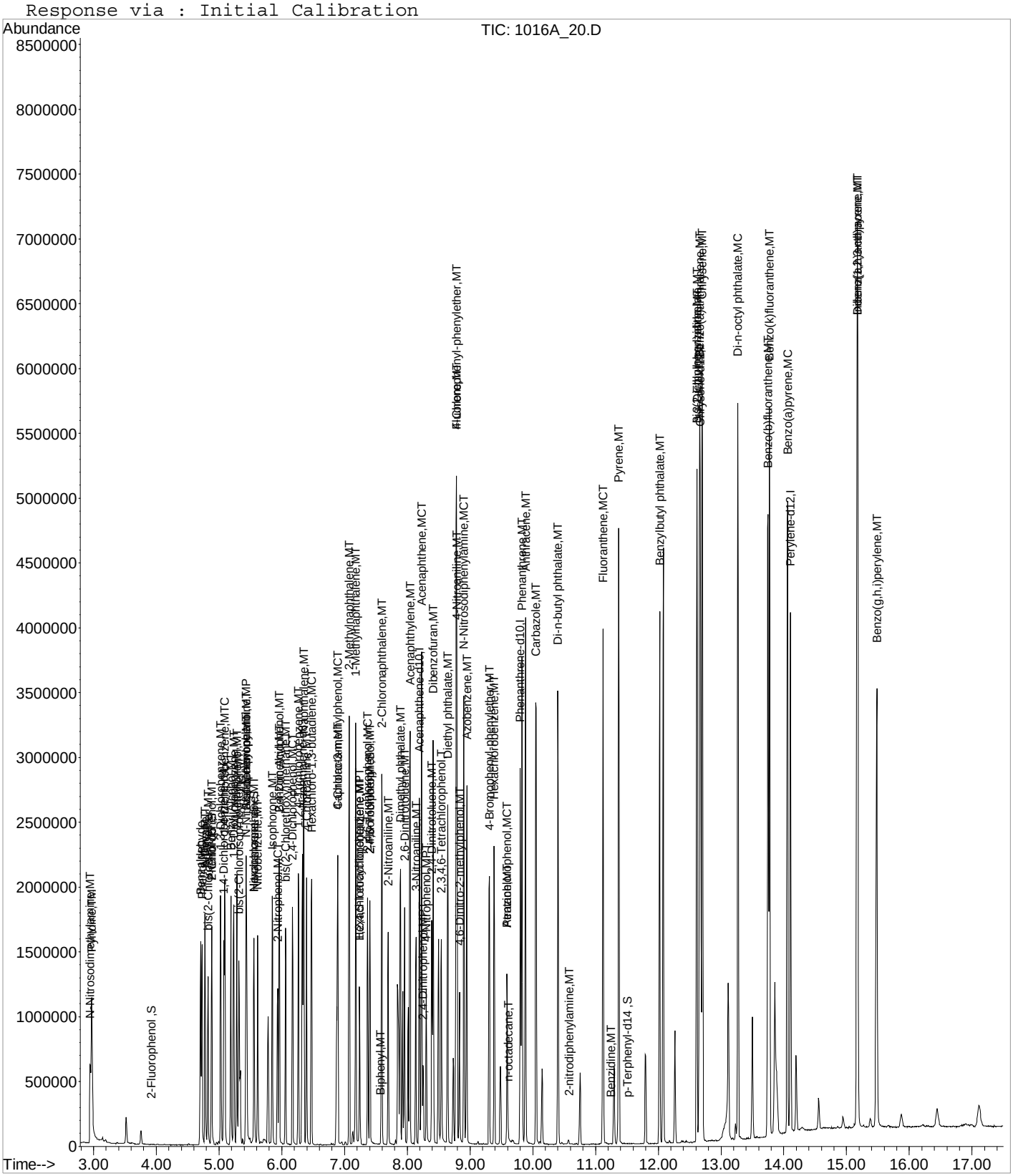
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	67	1.7892354 ppb	#	1
41)	Hexachlorocyclopentadiene	7.24	237	177766	8260.4322107 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	241784	9771.5956341 ppb		95
43)	2,4,5-Trichlorophenol	7.40	196	264138	9553.3858255 ppb		96
45)	Biphenyl	7.57	154	546	4.7914991 ppb	#	75
46)	2-Chloronaphthalene	7.59	162	865052	9502.1144168 ppb		99
47)	2-Nitroaniline	7.70	138	297341	9845.8284926 ppb		99
48)	Acenaphthylene	8.04	152	1448432	9660.4565234 ppb		99
49)	Dimethyl phthalate	7.89	163	936834	9109.3321523 ppb		97
50)	2,6-Dinitrotoluene	7.96	165	226308	9786.5562246 ppb		90
51)	3-Nitroaniline	8.14	138	249612	9253.0701383 ppb		93
52)	Acenaphthene	8.23	153	921959	9698.2216014 ppb		99
53)	2,4-Dinitrophenol	8.26	184	85681	9471.0224010 ppb	#	91
54)	Dibenzofuran	8.41	168	1256087	9503.8467271 ppb		99
55)	2,4-Dinitrotoluene	8.39	165	294776	9523.8168024 ppb		92
56)	2,3,4,6-Tetrachlorophenol	8.54	232	191345	11449.9725328 ppb		98
57)	4-Nitrophenol	8.30	139	183172	9193.0773877 ppb		94
58)	Fluorene	8.78	166	1049218	9608.7036721 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	450743	9477.5742505 ppb		93
60)	Diethyl phthalate	8.64	149	983363	8809.5308669 ppb		100
61)	4-Nitroaniline	8.80	138	267829	9706.1419246 ppb		100
62)	Azobenzene	8.95	77	1040861	9114.2797154 ppb		99
63)	Atrazine	9.59	200	27814	1169.7899493 ppb	#	21
65)	4,6-Dinitro-2-methylphenol	8.83	198	147326	10029.4285837 ppb		94
66)	N-Nitrosodiphenylamine	8.90	169	842863	9466.2915644 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	260546	9555.6808354 ppb		92
69)	Hexachlorobenzene	9.38	284	289674	9420.9004491 ppb		98
70)	n-octadecane	9.61	55	2064	110.4475178 ppb	#	1
71)	Pentachlorophenol	9.59	266	158124	10785.5600878 ppb		95
72)	Phenanthrene	9.83	178	1490681	9580.2697724 ppb		99
73)	Anthracene	9.88	178	1541731	9679.1462053 ppb		100
74)	Carbazole	10.05	167	1499086	9671.7562194 ppb		99
75)	Di-n-butyl phthalate	10.40	149	1940024	9198.1520228 ppb		100
76)	2-nitrodiphenylamine	10.58	167	431	12.0042321 ppb	#	100
77)	Fluoranthene	11.12	202	1754987	9564.5832083 ppb		100
79)	Benzidine	11.25	184	2535	756.4716190 ppb		83
80)	Pyrene	11.37	202	1856030	9010.8277312 ppb		99
82)	Benzylbutyl phthalate	12.02	149	995432	8957.5852000 ppb		98
83)	3,3-Dichlorobenzidine	12.61	252	608	8.2518511 ppb	#	45
84)	Benzo(a)anthracene	12.66	228	1958773	9165.8603714 ppb		98
85)	Chrysene	12.70	228	1884397	9722.9978488 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	1513847	8789.5474505 ppb		99
87)	Di-n-octyl phthalate	13.27	149	2806317	9389.2138408 ppb		100
89)	Benzo(b)fluoranthene	13.75	252	2233601	10186.9630614 ppb		97
90)	Benzo(k)fluoranthene	13.77	252	1915976	9626.0048696 ppb		97
91)	Benzo(a)pyrene	14.06	252	1974522	9619.5556199 ppb		96
92)	Indeno(1,2,3-cd)pyrene	15.18	276	2137011	9454.5964958 ppb		93
93)	Dibenz(a,h)anthracene	15.17	278	1866939	9894.5372732 ppb		99
94)	Benzo(g,h,i)perylene	15.48	276	1770688	9440.1774984 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 20.D Vial: 24
Acq On : 16 Oct 2014 11:11 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS4
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:11 2014 Quant Results File: S804J16N.RES

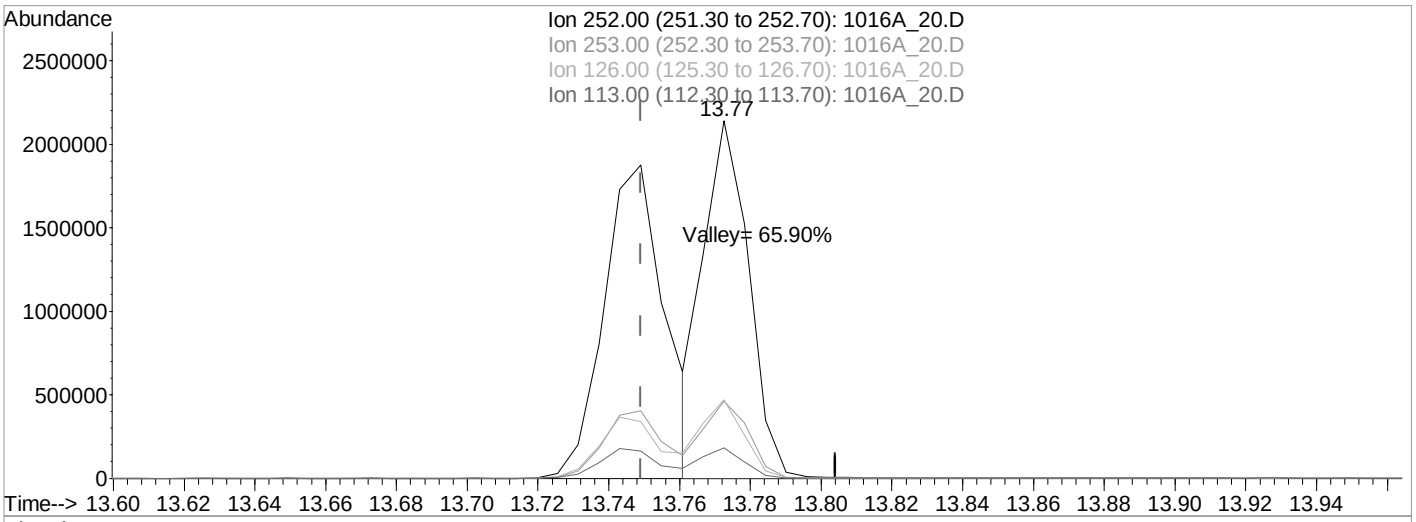
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

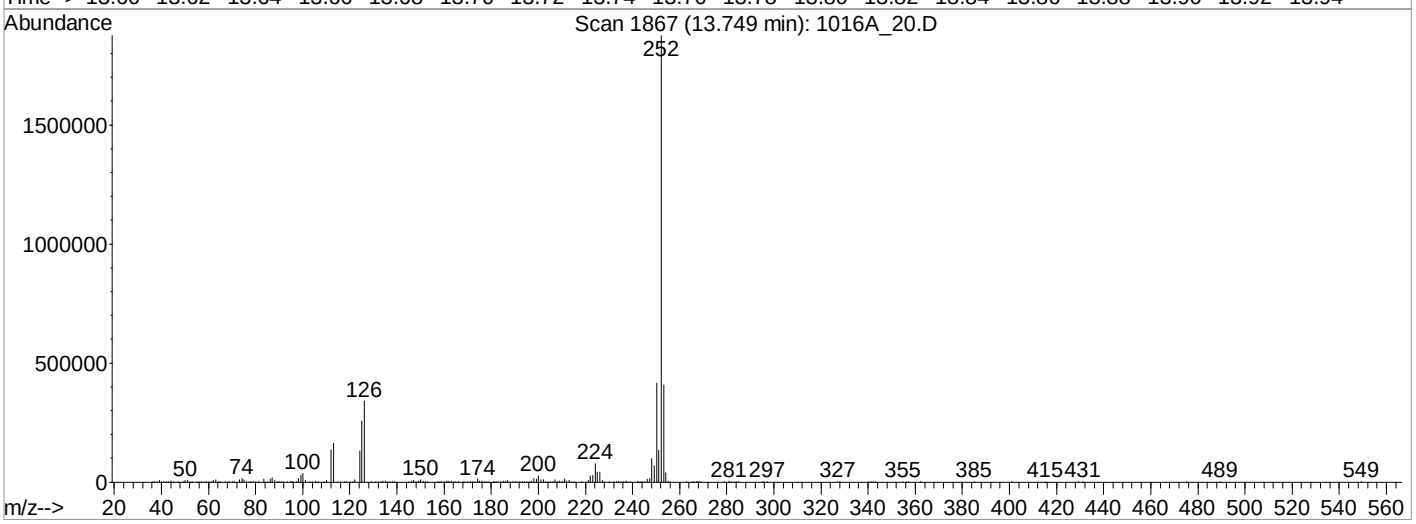


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 20.D Vial: 24
Acq On : 16 Oct 2014 11:11 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS4
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:11 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_20.D

(89) Benzo(b)fluoranthene (MT)

13.75min (-0.000) 10186.9630614 ppb

Qvalue = 97

response 2233601

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.67
126.00	19.90	17.04
113.00	9.50	8.56

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	177575	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	768068	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	483289	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	806487	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	901878	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1065546	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	3.99	112	313244	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 50000.00%#		
7) Phenol-d5	4.72	99	380388	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 50000.00%#		
23) Nitrobenzene-d5	5.60	82	368429	10027.8165631 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 100278.17%#		
44) 2-Fluorobiphenyl	7.46	172	824367	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 100000.00%#		
67) 2,4,6-Tribromophenol	9.05	330	95626	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 50000.00%#		
81) p-Terphenyl-d14	11.52	244	1158536	10000.4315978 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 100004.32%#		

Target Compounds

					Qvalue
2) Pyridine	2.96	79	496261	9996.3741915 ppb	100
3) N-Nitrosodimethylamine	2.94	42	251722	10000.0000000 ppb	100
5) Aniline	4.78	66	183990	9970.2501910 ppb	100
6) bis(2-Chloroethyl)ether	4.82	63	261127	10000.0000000 ppb	100
8) Phenol	4.73	94	394706	10000.0000000 ppb	100
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	345051	10000.0000000 ppb	100
11) n-Decane	4.91	41	196077	10000.0000000 ppb	100
12) 1,3-Dichlorobenzene	5.02	146	380097	10000.0000000 ppb	100
13) 1,4-Dichlorobenzene	5.09	146	387474	10000.0000000 ppb	100
14) Benzyl Alcohol	5.19	79	281230	10000.0000000 ppb	100
15) 1,2-Dichlorobenzene	5.24	146	373994	10000.0000000 ppb	100
16) bis(2-Chloroisopropyl)ethe	5.32	121	109455	10000.0000000 ppb	100
17) 2-Methylphenol	5.28	108	309589	10000.0000000 ppb	100
18) Hexachloroethane	5.56	117	166511	10000.0000000 ppb	100
19) N-Nitrosodi-n-propylamine	5.44	70	249632	9997.2366951 ppb	100
20) 3&4-Methyl phenol	5.43	107	354976	10000.0000000 ppb	100
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	371136	10000.0000000 ppb	100
25) Isophorone	5.85	82	645354	10000.0000000 ppb	100
26) 2-Nitrophenol	5.93	139	184296	10000.0000000 ppb	100
27) 2,4-Dimethylphenol	5.96	107	317469	10000.0000000 ppb	100
28) bis(2-Chlorethoxy)methane	6.06	93	420413	10000.0000000 ppb	100
29) 2,4-Dichlorophenol	6.18	162	297023	10000.0000000 ppb	100
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	325377	10000.0000000 ppb	100
32) Naphthalene	6.35	128	1094464	10000.0000000 ppb	100
33) 4-Chloroaniline	6.40	65	139018	10000.0000000 ppb	100
34) Hexachloro-1,3-butadiene	6.48	225	182024	10000.0000000 ppb	100
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	328619	10000.0000000 ppb	100
37) 2-Methylnaphthalene	7.07	142	766405	10000.0000000 ppb	100
38) 1-Methylnaphthalene	7.18	142	718874	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

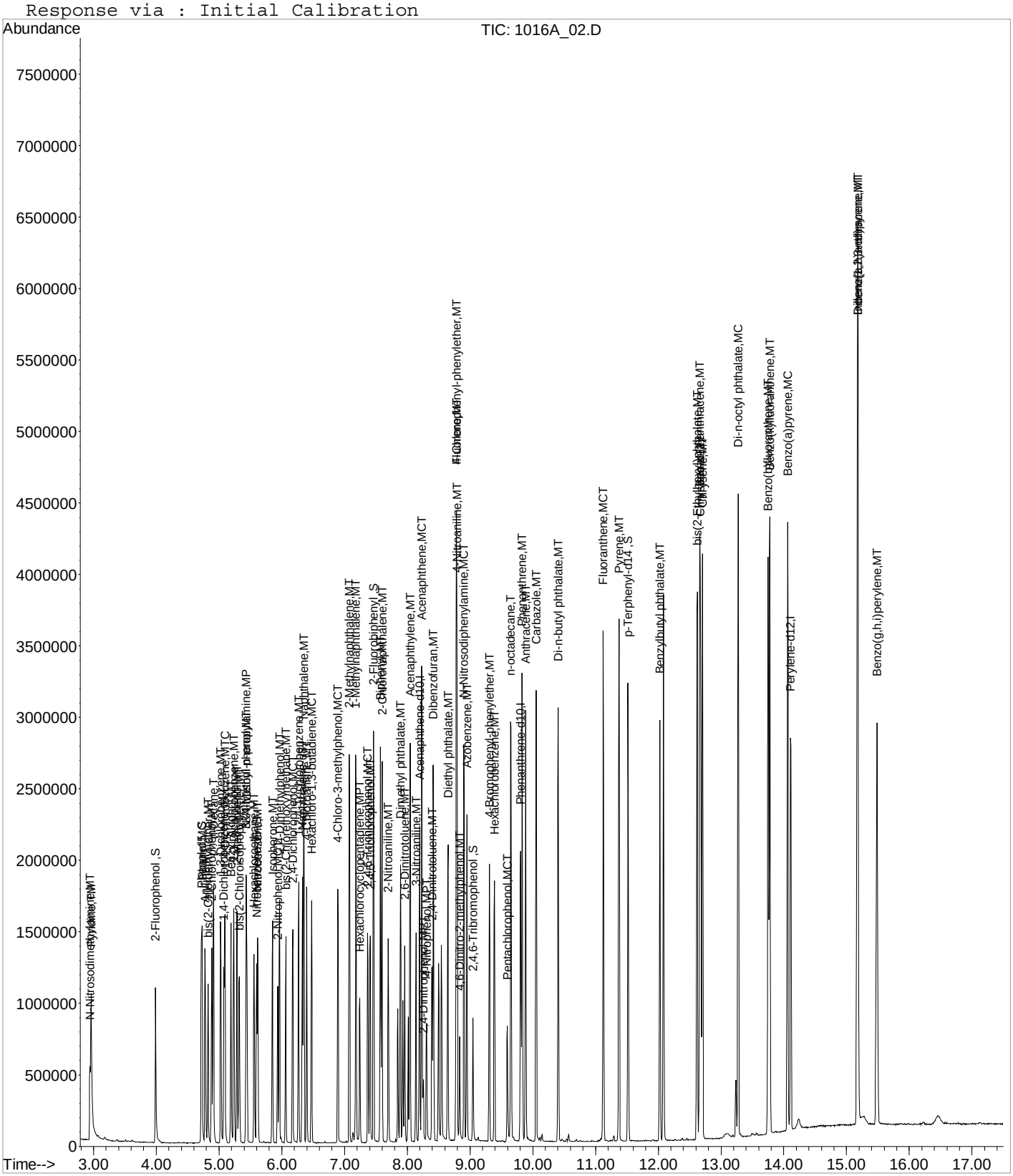
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d	
41)	Hexachlorocyclopentadiene	7.24	237	160562	10000.0000000 ppb	100
42)	2,4,6-Trichlorophenol	7.37	196	198040	10000.0000000 ppb	100
43)	2,4,5-Trichlorophenol	7.41	196	222005	10000.0000000 ppb	100
45)	Biphenyl	7.57	154	902780	10000.0000000 ppb	100
46)	2-Chloronaphthalene	7.60	162	725057	10000.0000000 ppb	100
47)	2-Nitroaniline	7.70	138	246299	10000.0000000 ppb	100
48)	Acenaphthylene	8.04	152	1201335	10000.0000000 ppb	100
49)	Dimethyl phthalate	7.89	163	793368	10000.0000000 ppb	100
50)	2,6-Dinitrotoluene	7.96	165	188316	10000.0000000 ppb	100
51)	3-Nitroaniline	8.14	138	213753	10000.0000000 ppb	100
52)	Acenaphthene	8.23	153	758167	10000.0000000 ppb	100
53)	2,4-Dinitrophenol	8.26	184	54076	9942.6344046 ppb	97
54)	Dibenzofuran	8.41	168	1057368	10000.0000000 ppb	100
55)	2,4-Dinitrotoluene	8.40	165	241039	10000.0000000 ppb	100
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d	
57)	4-Nitrophenol	8.31	139	146387	10000.0000000 ppb	100
58)	Fluorene	8.78	166	863838	10000.0000000 ppb	100
59)	4-Chlorophenyl-phenylether	8.78	204	379214	10000.0000000 ppb	100
60)	Diethyl phthalate	8.65	149	850634	10000.0000000 ppb	100
61)	4-Nitroaniline	8.80	138	218652	10000.0000000 ppb	100
62)	Azobenzene	8.95	77	874549	10000.0000000 ppb	100
63)	Atrazine	0.00	200	0	N.D. d	
65)	4,6-Dinitro-2-methylphenol	8.84	198	95566	10000.0000000 ppb	100
66)	N-Nitrosodiphenylamine	8.90	169	702598	10000.0000000 ppb	100
68)	4-Bromophenyl-phenylether	9.31	248	215811	10000.0000000 ppb	100
69)	Hexachlorobenzene	9.39	284	239221	10000.0000000 ppb	100
70)	n-octadecane	9.65	55	149780	10000.0000000 ppb	100
71)	Pentachlorophenol	9.59	266	101919	10000.0000000 ppb	100
72)	Phenanthrene	9.83	178	1190564	10000.0000000 ppb	100
73)	Anthracene	9.89	178	1244887	10000.0000000 ppb	100
74)	Carbazole	10.05	167	1223662	9998.0635657 ppb	100
75)	Di-n-butyl phthalate	10.41	149	1686202	10000.0000000 ppb	100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d	
77)	Fluoranthene	11.12	202	1433747	10000.0000000 ppb	100
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.38	202	1509126	10000.0000000 ppb	100
82)	Benzylbutyl phthalate	12.03	149	807450	10000.0000000 ppb	100
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d	
84)	Benzo(a)anthracene	12.66	228	1485931	10000.0000000 ppb	100
85)	Chrysene	12.70	228	1380392	10000.0000000 ppb	100
86)	bis(2-Ethylhexyl)phthalate	12.62	149	1223652	10000.0000000 ppb	100
87)	Di-n-octyl phthalate	13.27	149	2244030	10000.0000000 ppb	100
89)	Benzo(b)fluoranthene	13.75	252	1641995m	9997.8202007 ppb	
90)	Benzo(k)fluoranthene	13.78	252	1617615m	9992.4884068 ppb	
91)	Benzo(a)pyrene	14.06	252	1607953	10000.0000000 ppb	100
92)	Indeno(1,2,3-cd)pyrene	15.18	276	1903809	10000.0000000 ppb	100
93)	Dibenz(a,h)anthracene	15.18	278	1619121	10000.0000000 ppb	100
94)	Benzo(g,h,i)perylene	15.49	276	1580035	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: S804J16N.RES

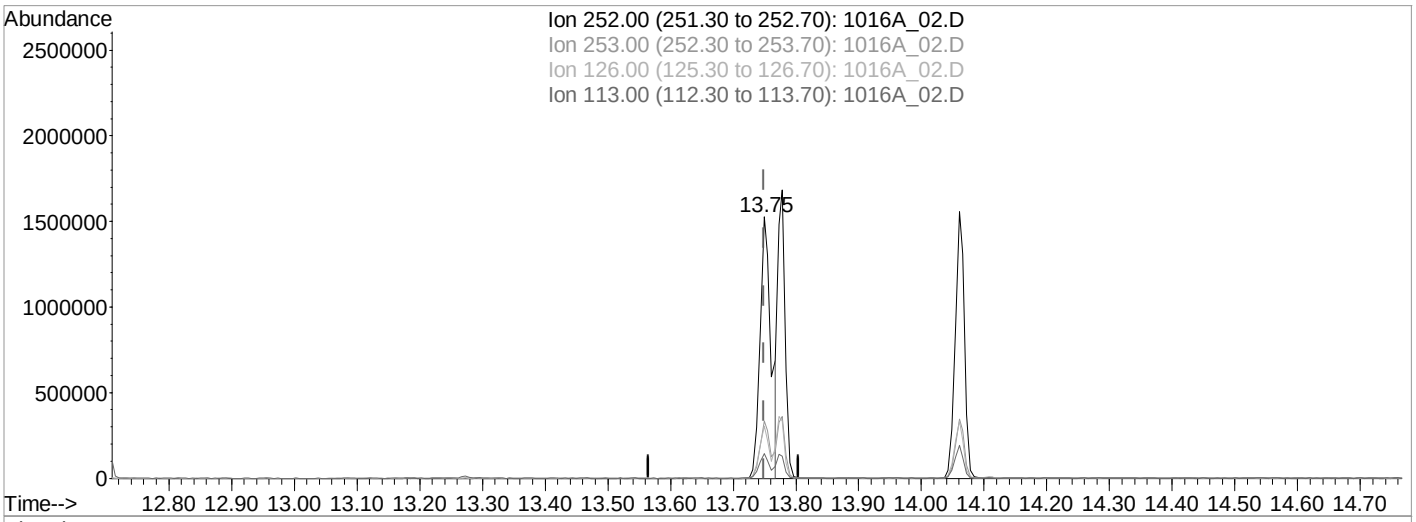
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Initial Calibration

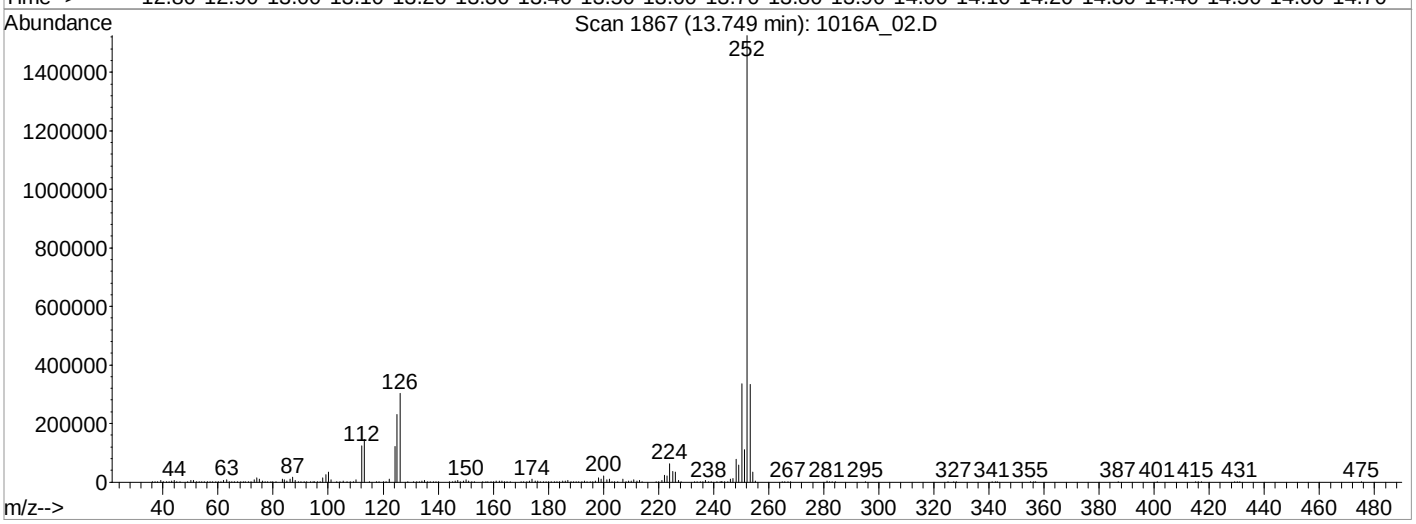


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:03 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(89) Benzo(b)fluoranthene (MT)

13.75min (0.000) 11466.9379847 ppb

Qvalue = 98

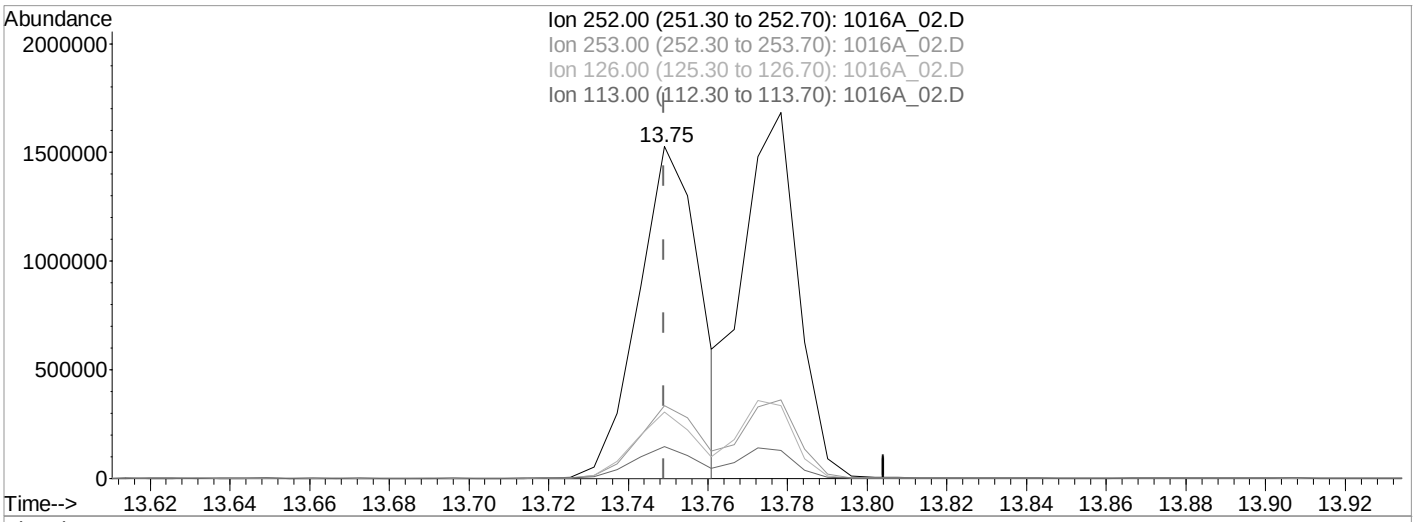
response 1883276

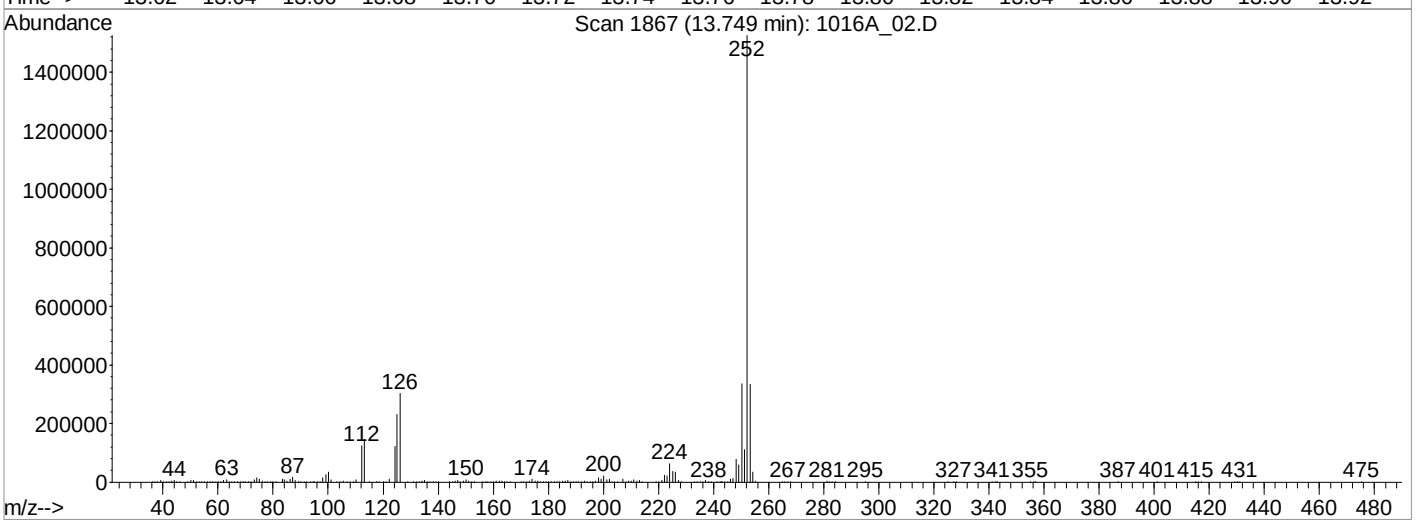
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.61
126.00	19.90	18.14
113.00	9.50	9.27

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(89) Benzo(b)fluoranthene (MT)

13.75min (0.000) 9997.8202007 ppb m

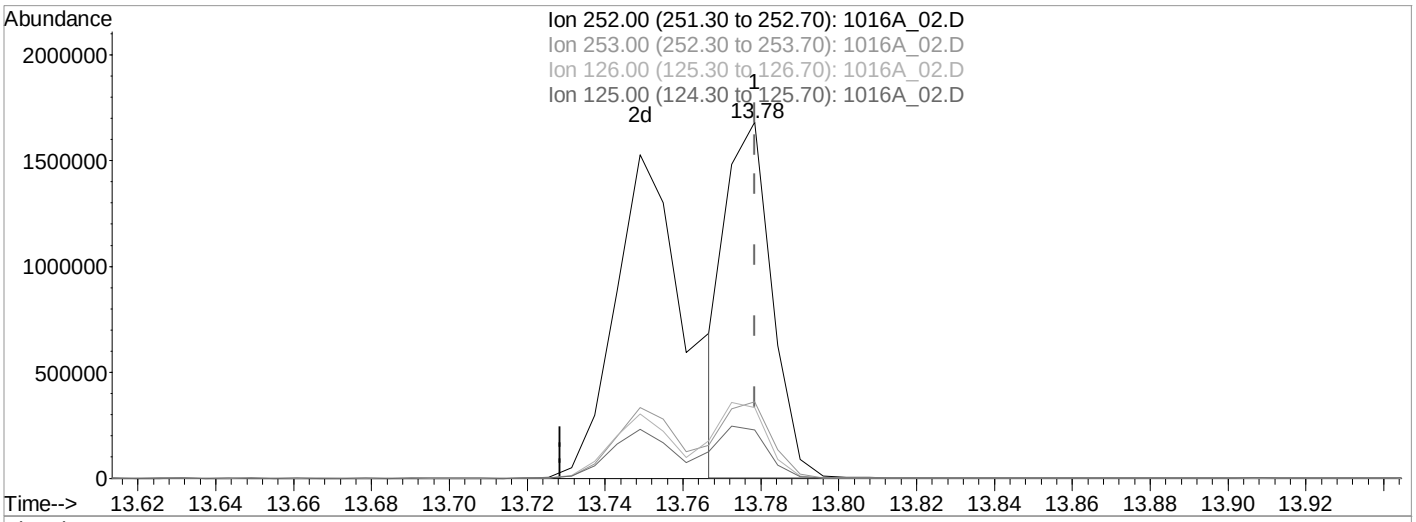
response 1641995

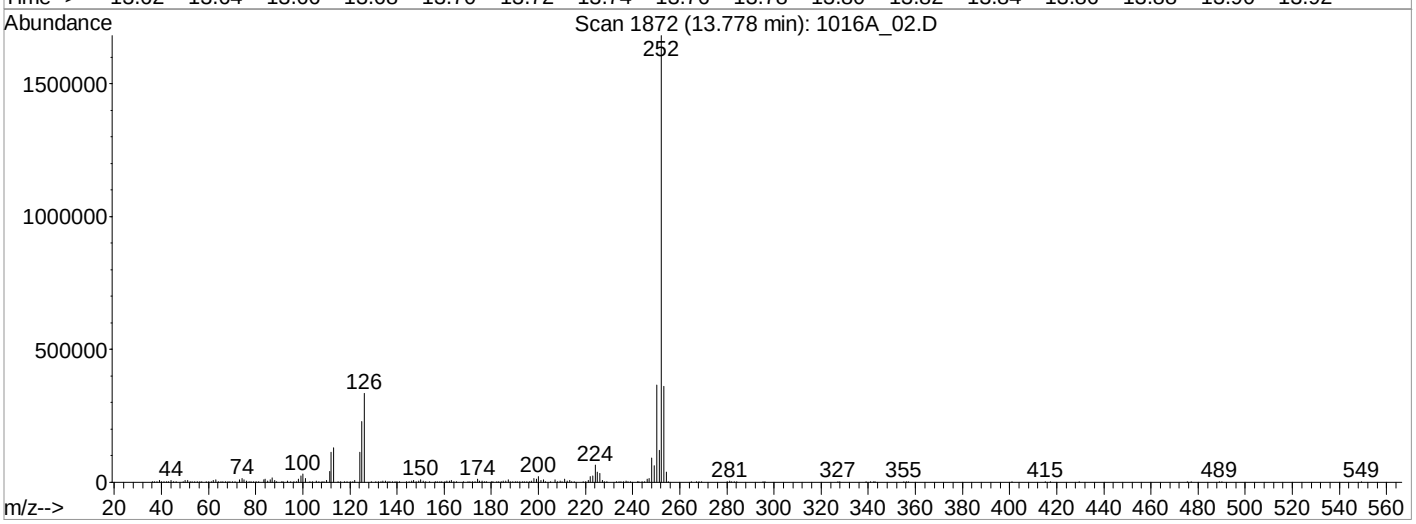
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.82
126.00	19.90	19.91
113.00	9.50	9.52

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(90) Benzo(k)fluoranthene (MT)

13.78min (0.000) 8518.1467368 ppb

Qvalue = 100

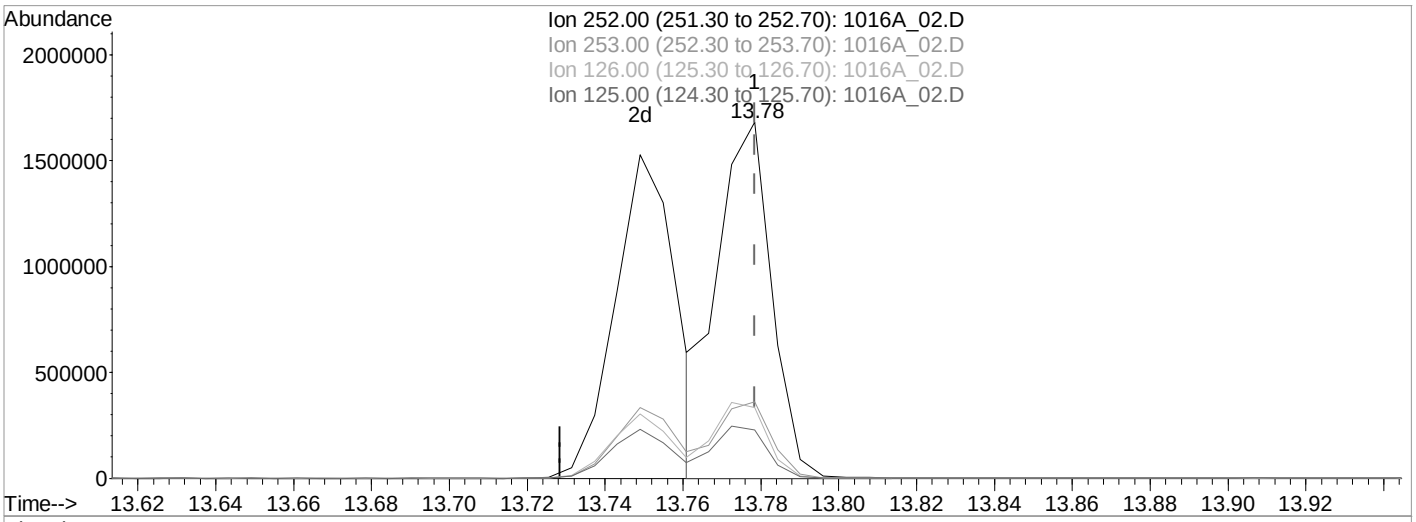
response 1378944

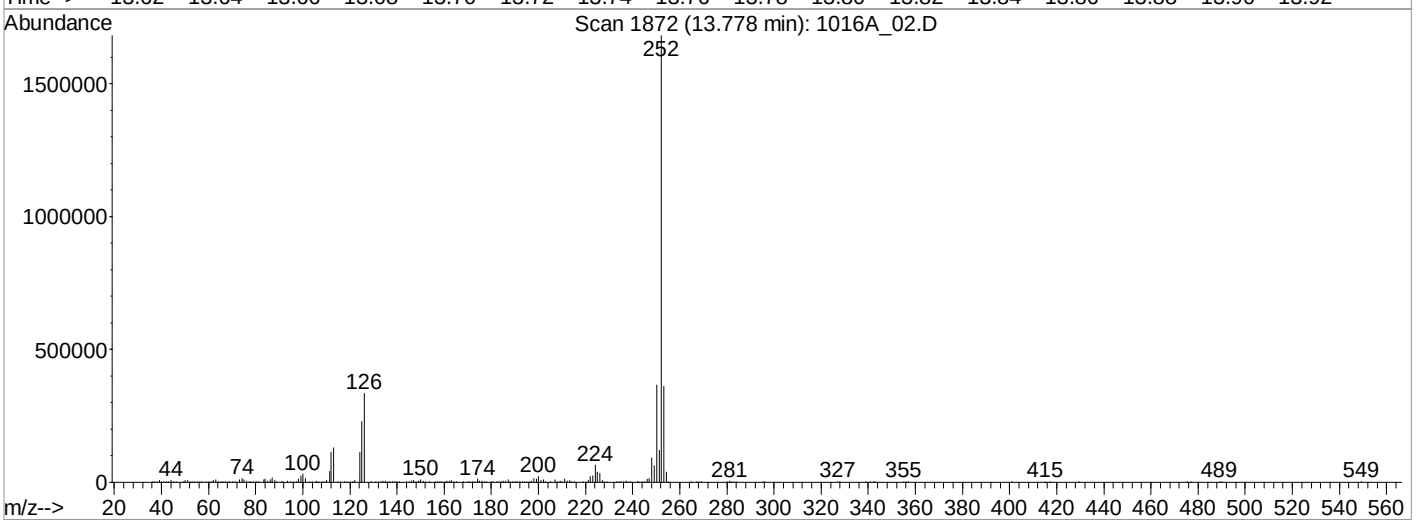
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.44
126.00	19.90	19.84
125.00	13.60	13.54

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(90) Benzo(k)fluoranthene (MT)

13.78min (0.000) 9992.4884068 ppb m

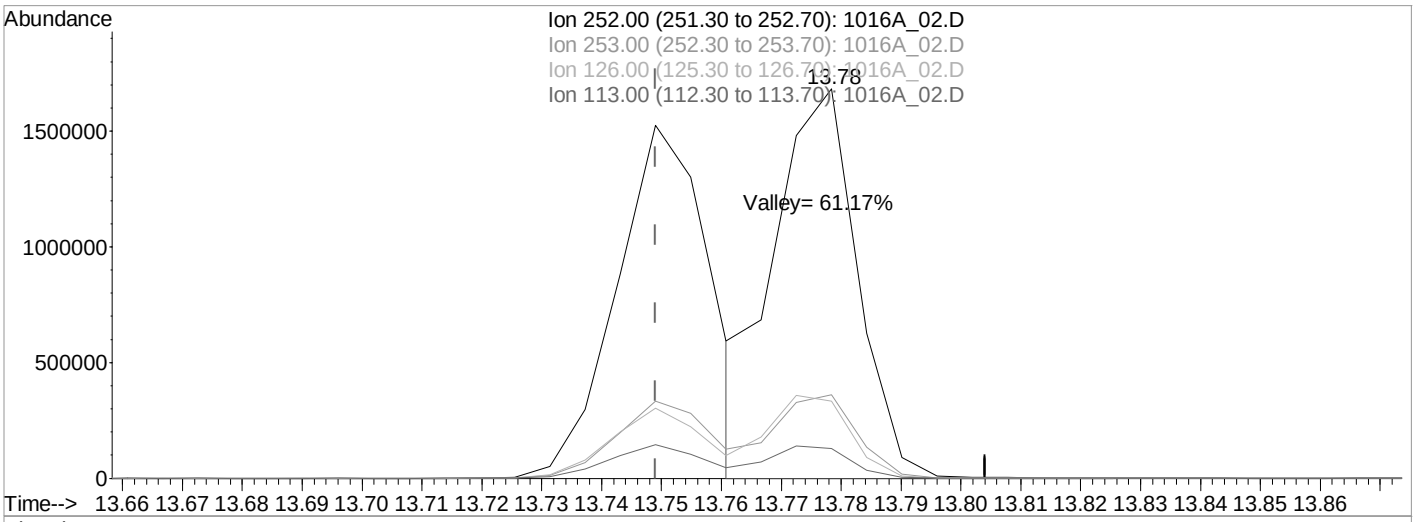
response 1617615

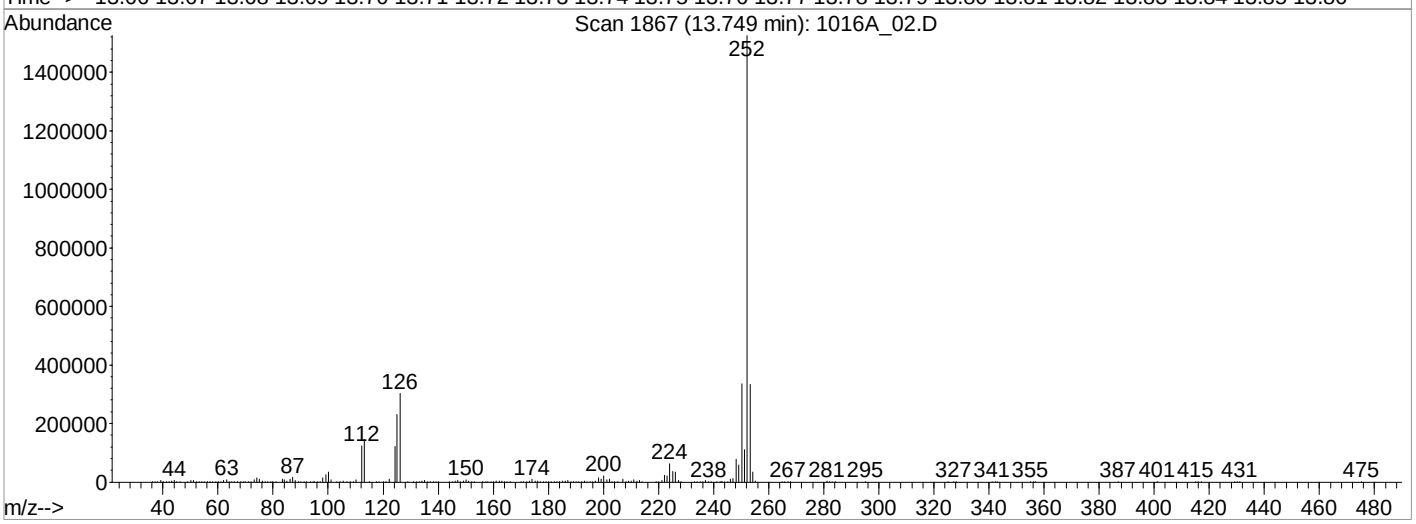
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.46
126.00	19.90	19.85
125.00	13.60	13.58

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(89) Benzo(b)fluoranthene (MT)

13.75min (0.000) 9997.8202007 ppb m

response 1641995

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.82
126.00	19.90	19.91
113.00	9.50	9.52

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	171571	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	739988	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	475667	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	807948	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	894719	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1016727	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	5998	198.1808292 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 990.90%#		
7) Phenol-d5	4.71	99	7399	201.3187199 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 1006.59%#		
23) Nitrobenzene-d5	5.59	82	7624	214.7850626 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 2147.85%#		
44) 2-Fluorobiphenyl	7.46	172	16734	206.2448220 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 2062.45%#		
67) 2,4,6-Tribromophenol	9.04	330	1043	108.8735238 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 544.37%#		
81) p-Terphenyl-d14	11.52	244	22690	197.4177035 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 1974.18%#		

Target Compounds						Qvalue
2) Pyridine	2.99	79	14182	295.7775965 ppb	#	85
3) N-Nitrosodimethylamine	2.97	42	8283	340.5684623 ppb	#	52
5) Aniline	4.78	66	3806	214.0979482 ppb		94
6) bis(2-Chloroethyl)ether	4.82	63	5107	202.4193469 ppb		93
8) Phenol	4.73	94	7768	203.6917453 ppb		95
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.88	128	6487	194.5801565 ppb		97
11) n-Decane	4.91	41	4209	222.1724545 ppb	#	76
12) 1,3-Dichlorobenzene	5.02	146	7470	203.4061599 ppb		98
13) 1,4-Dichlorobenzene	5.09	146	7771	207.5736794 ppb	#	76
14) Benzyl Alcohol	5.19	79	6273	230.8615363 ppb		87
15) 1,2-Dichlorobenzene	5.24	146	6846	189.4568014 ppb		94
16) bis(2-Chloroisopropyl)ethe	5.32	121	2464	232.9930889 ppb		87
17) 2-Methylphenol	5.28	108	5970	199.5844725 ppb		96
18) Hexachloroethane	5.56	117	3084	191.6943802 ppb		93
19) N-Nitrosodi-n-propylamine	5.43	70	5994	248.5160391 ppb		97
20) 3&4-Methyl phenol	5.43	107	6770	197.3911231 ppb		93
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	6708	187.6009208 ppb		98
25) Isophorone	5.85	82	12980	208.7621114 ppb		100
26) 2-Nitrophenol	5.93	139	3122	175.8295983 ppb		90
27) 2,4-Dimethylphenol	5.96	107	7312	239.0616172 ppb		94
28) bis(2-Chlorethoxy)methane	6.06	93	8545	210.9652500 ppb		95
29) 2,4-Dichlorophenol	6.17	162	5283	184.6143795 ppb		93
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.27	180	6409	204.4459046 ppb		95
32) Naphthalene	6.35	128	26411	250.4715242 ppb		98
33) 4-Chloroaniline	6.39	65	3143	234.6650104 ppb		77
34) Hexachloro-1,3-butadiene	6.47	225	3691	210.4700895 ppb		92
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.89	107	6880	217.3055223 ppb		98
37) 2-Methylnaphthalene	7.07	142	15790	213.8448497 ppb		99
38) 1-Methylnaphthalene	7.18	142	14507	209.4593874 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

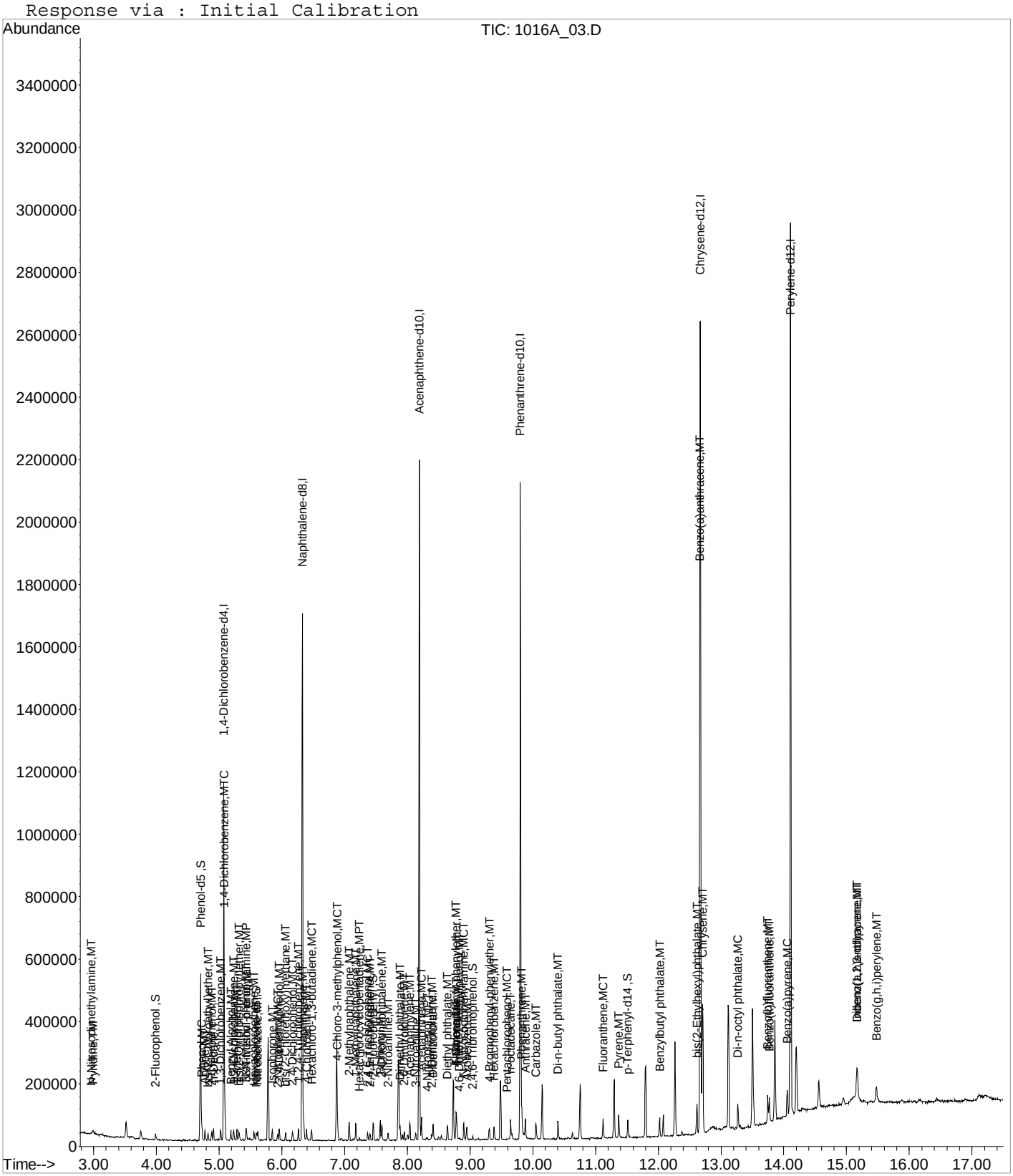
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	1005	63.5956163 ppb	#	87
42)	2,4,6-Trichlorophenol	7.37	196	3042	156.0666757 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	3433	157.1140180 ppb		91
45)	Biphenyl	7.57	154	18328	206.2704588 ppb		95
46)	2-Chloronaphthalene	7.59	162	14371	201.3811086 ppb		96
47)	2-Nitroaniline	7.70	138	4501	185.6736402 ppb	#	94
48)	Acenaphthylene	8.04	152	23673	200.2133607 ppb		99
49)	Dimethyl phthalate	7.89	163	16898	216.4036163 ppb		95
50)	2,6-Dinitrotoluene	7.96	165	2941	158.6761635 ppb		91
51)	3-Nitroaniline	8.13	138	3100	147.3510934 ppb	#	85
52)	Acenaphthene	8.23	153	15022	201.3106578 ppb		96
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.41	168	21276	204.4408634 ppb		98
55)	2,4-Dinitrotoluene	8.39	165	3804	160.3456118 ppb		95
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.31	139	1715	119.0324853 ppb	#	81
58)	Fluorene	8.78	166	17644	207.5241445 ppb		94
59)	4-Chlorophenyl-phenylether	8.78	204	7516	201.3753446 ppb		96
60)	Diethyl phthalate	8.64	149	18634	222.5703154 ppb		98
61)	4-Nitroaniline	8.79	138	3542	164.5883117 ppb	#	93
62)	Azobenzene	8.95	77	20432	237.3726182 ppb		88
63)	Atrazine	0.00	200	0	N.D.		
65)	4,6-Dinitro-2-methylphenol	8.83	198	645	67.3705770 ppb		86
66)	N-Nitrosodiphenylamine	8.90	169	13498	191.7681487 ppb		95
68)	4-Bromophenyl-phenylether	9.31	248	4293	198.5643472 ppb	#	82
69)	Hexachlorobenzene	9.38	284	5029	209.8438739 ppb		97
70)	n-octadecane	9.65	55	3850	256.5788559 ppb	#	50
71)	Pentachlorophenol	9.59	266	501	49.0677940 ppb		90
72)	Phenanthrene	9.82	178	24721	207.2656102 ppb		98
73)	Anthracene	9.88	178	24271	194.6129337 ppb		96
74)	Carbazole	10.05	167	23777	193.9588254 ppb		99
75)	Di-n-butyl phthalate	10.40	149	32450	192.0963275 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.12	202	28558	198.8241929 ppb		98
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	29162	194.7838463 ppb		99
82)	Benzylbutyl phthalate	12.02	149	16043	200.2770002 ppb		93
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	32693	221.7773881 ppb		95
85)	Chrysene	12.70	228	28029	204.6757088 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.61	149	28628	235.8273752 ppb		99
87)	Di-n-octyl phthalate	13.27	149	42752	192.0387679 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	31715m	202.4234077 ppb		
90)	Benzo(k)fluoranthene	13.77	252	31912m	206.7505646 ppb		
91)	Benzo(a)pyrene	14.05	252	30574	199.2722192 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.17	276	32247	177.5144816 ppb		93
93)	Dibenz(a,h)anthracene	15.16	278	25204	163.1390811 ppb		96
94)	Benzo(g,h,i)perylene	15.48	276	27011	179.1603087 ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: S804J16N.RES

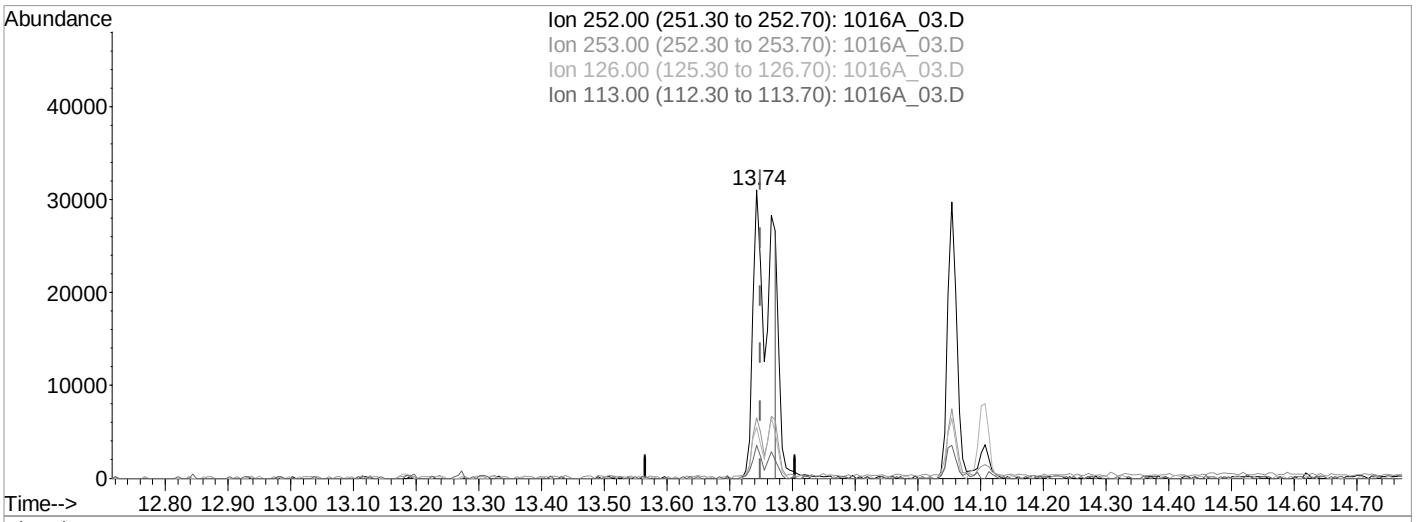
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Initial Calibration

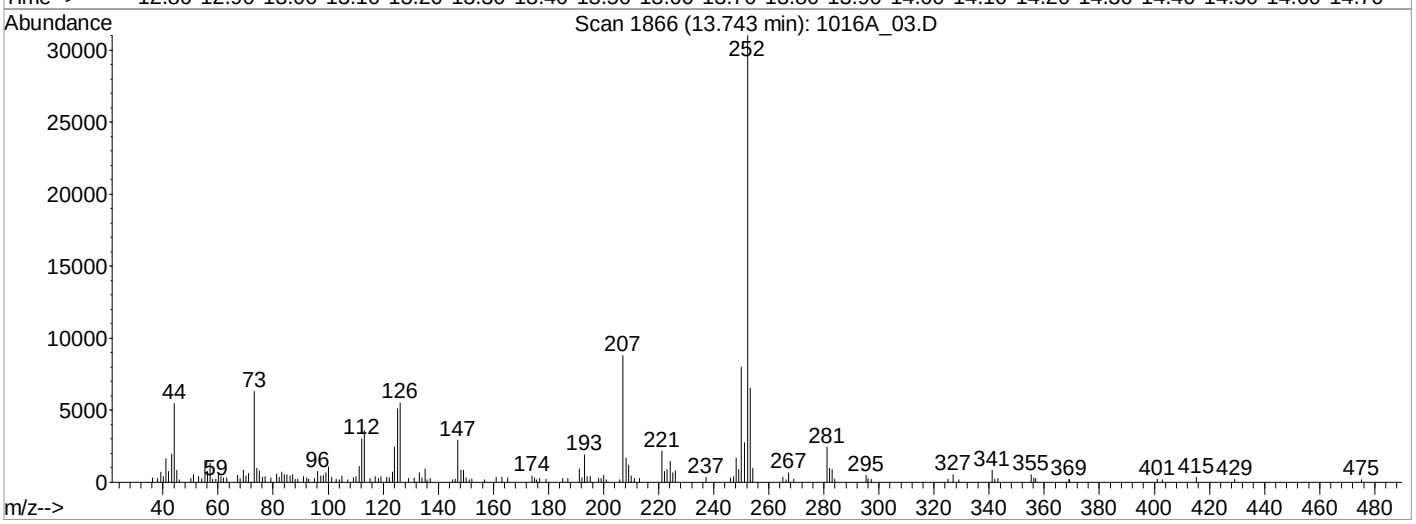


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Multiple Level Calibration





TIC: 1016A_03.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 361.8601640 ppb

Qvalue = 92

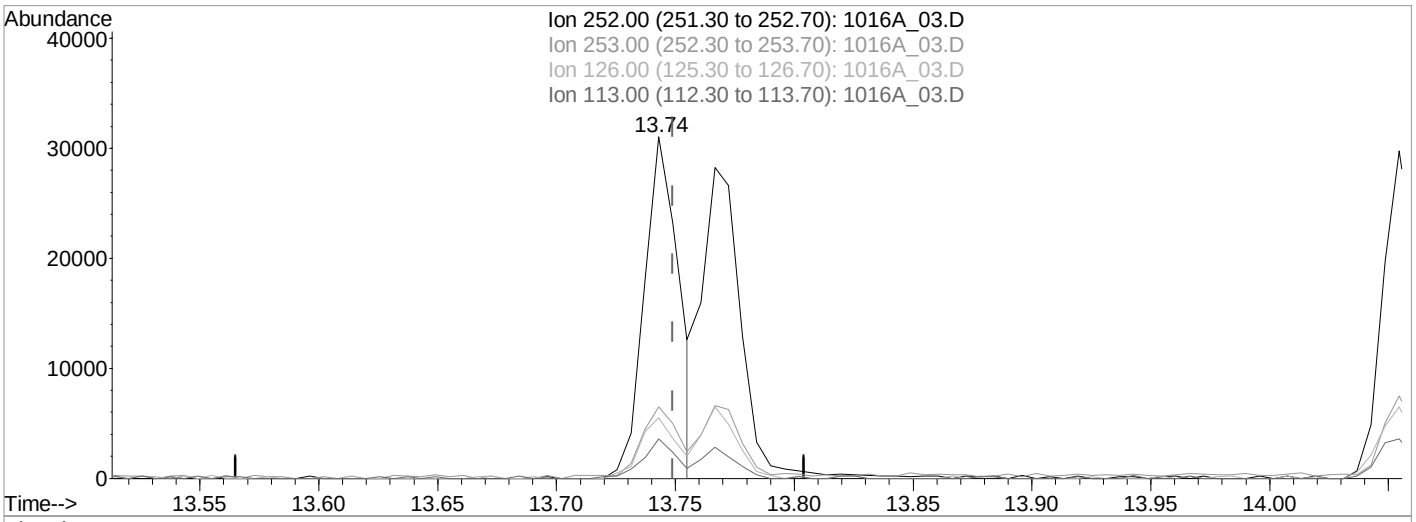
response 56695

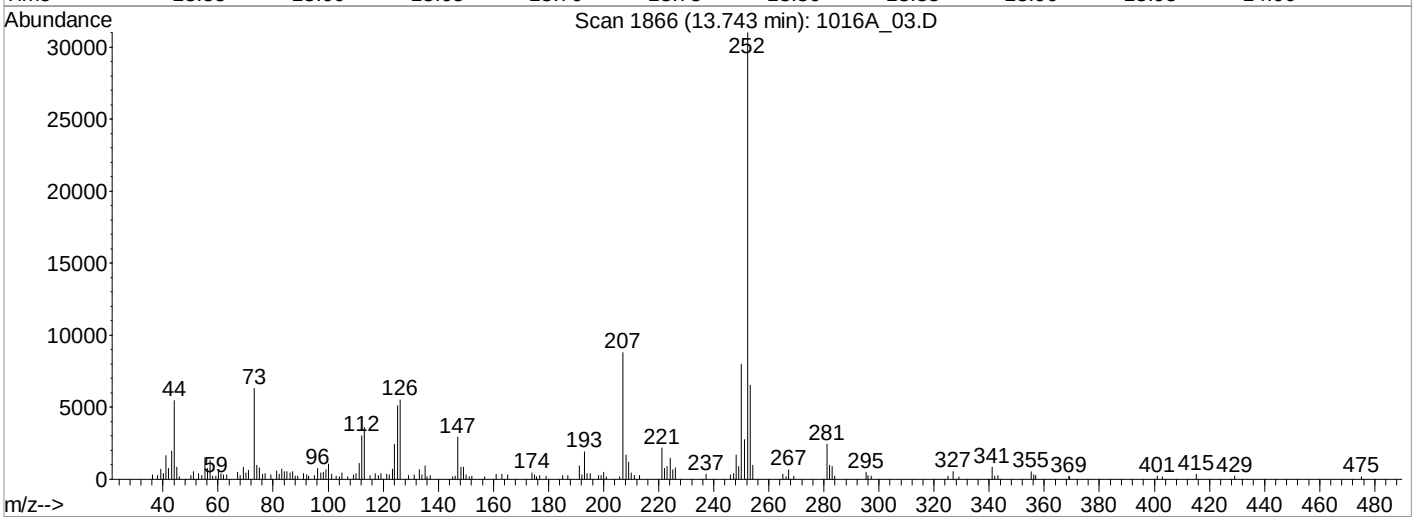
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	18.22
126.00	19.90	17.22
113.00	9.50	14.73

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Multiple Level Calibration





TIC: 1016A_03.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 202.4234077 ppb m

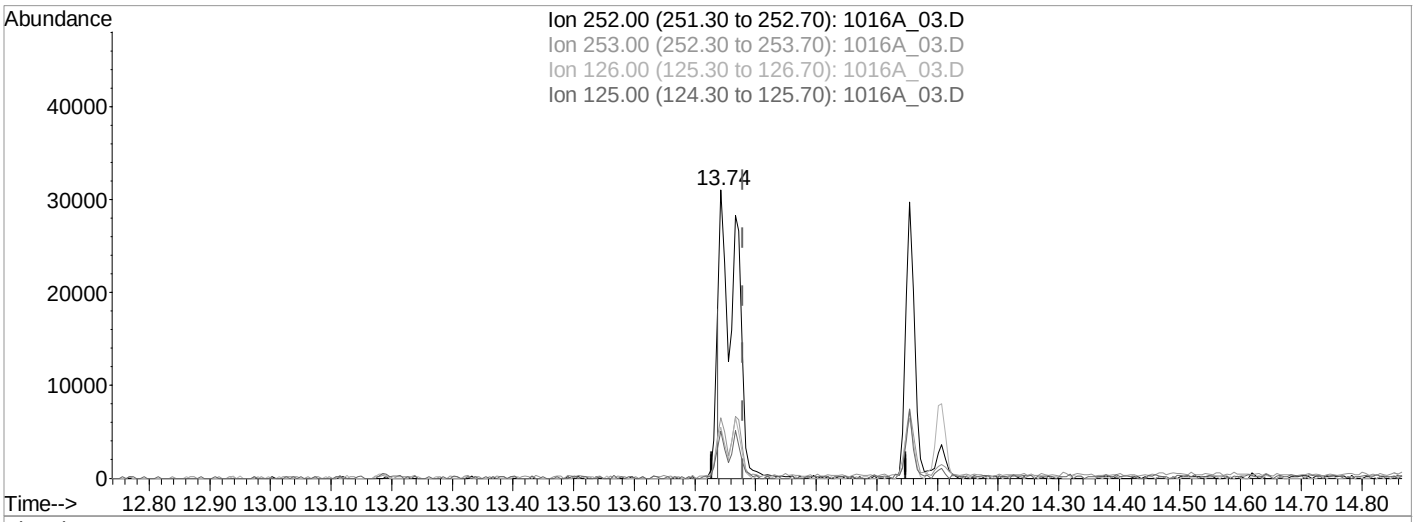
response 31715

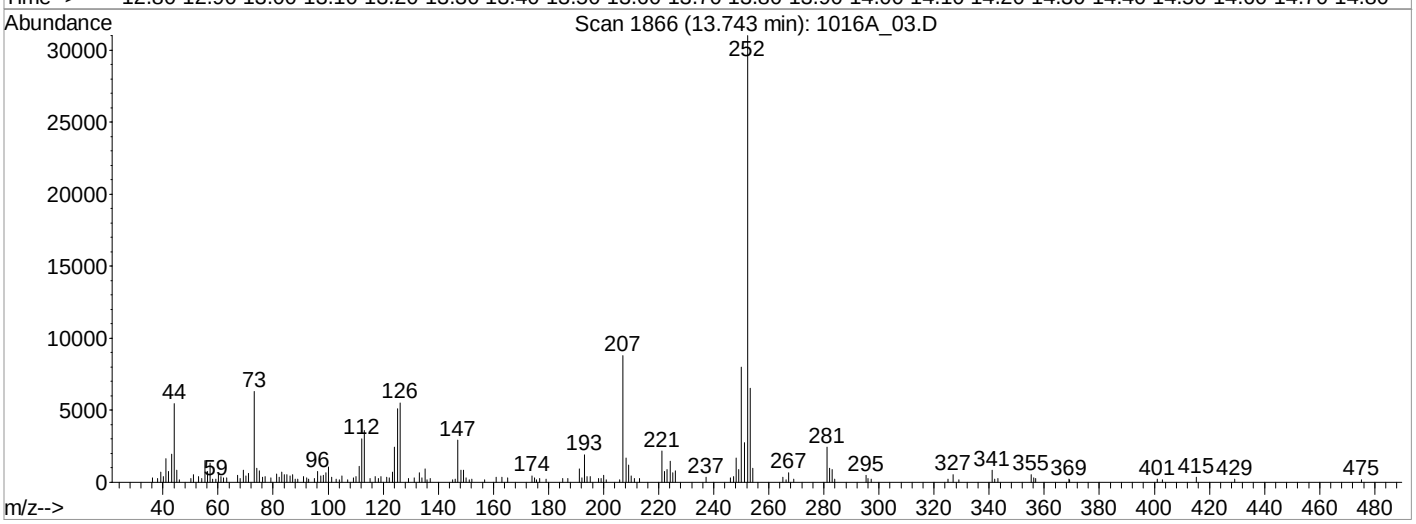
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.96
126.00	19.90	17.75
113.00	9.50	11.55

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Multiple Level Calibration





TIC: 1016A_03.D

(90) Benzo(k)fluoranthene (MT)

13.74min (-0.035) 363.6988106 ppb

Qvalue = 95

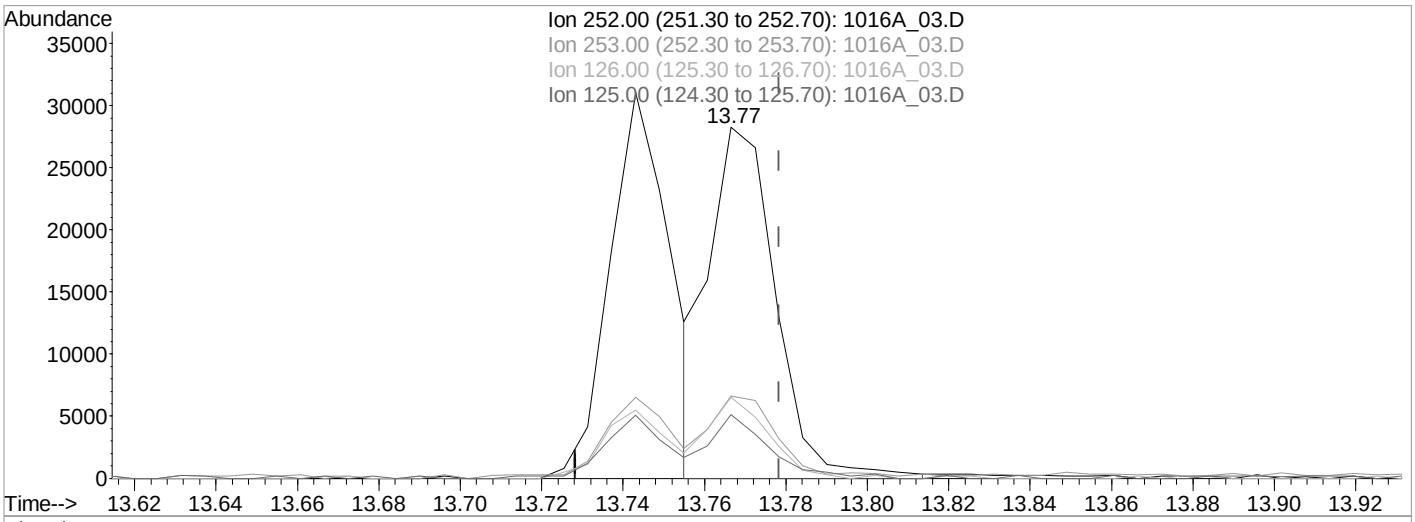
response 56137

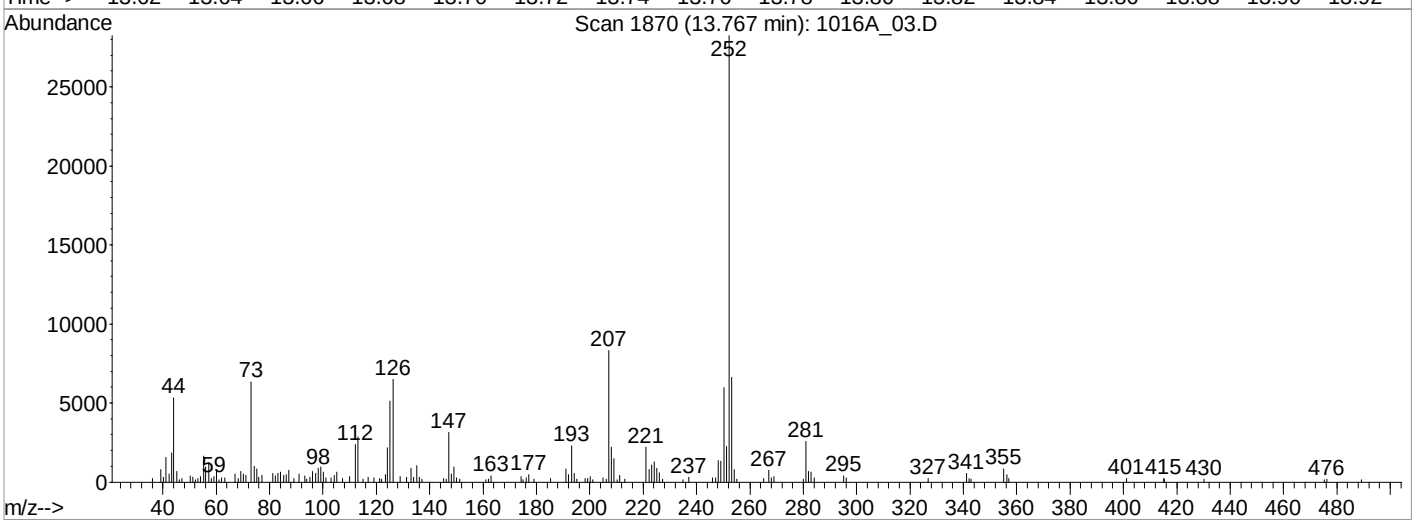
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	19.97
126.00	19.90	17.08
125.00	13.60	16.42

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Multiple Level Calibration





TIC: 1016A_03.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 206.7505646 ppb m

response 31912

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	23.45
126.00	19.90	23.04
125.00	13.60	18.13

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 04.D Vial: 8
Acq On : 16 Oct 2014 5:23 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:42 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	191597	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	843166	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	535605	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	916520	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1038507	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1158078	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	33925	1008.3466473 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 5041.73%#		
7) Phenol-d5	4.71	99	41218	1000.9763089 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 5004.88%#		
23) Nitrobenzene-d5	5.59	82	41284	984.3542738 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 9843.54%#		
44) 2-Fluorobiphenyl	7.46	172	95133	1025.2860174 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 10252.86%#		
67) 2,4,6-Tribromophenol	9.04	330	9416	1122.0835443 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 5610.42%#		
81) p-Terphenyl-d14	11.52	244	129974	980.6140198 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 9806.14%#		

Target Compounds						Qvalue
2) Pyridine	2.98	79	53353	803.9238452 ppb		98
3) N-Nitrosodimethylamine	2.95	42	27121	738.9021503 ppb	#	89
5) Aniline	4.78	66	21352	1038.9493428 ppb		96
6) bis(2-Chloroethyl)ether	4.82	63	29832	1052.4581829 ppb		97
8) Phenol	4.72	94	43267	1006.6680761 ppb		97
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.88	128	37020	1008.0242808 ppb		98
11) n-Decane	4.91	41	26088	1168.3617991 ppb	#	95
12) 1,3-Dichlorobenzene	5.02	146	43757	1057.9464403 ppb		98
13) 1,4-Dichlorobenzene	5.09	146	44542	1045.6205919 ppb		92
14) Benzyl Alcohol	5.19	79	31759	971.6739433 ppb		97
15) 1,2-Dichlorobenzene	5.24	146	43233	1100.3847309 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	12130	948.8495175 ppb		95
17) 2-Methylphenol	5.28	108	35134	1052.8986819 ppb		98
18) Hexachloroethane	5.56	117	18826	1070.0914516 ppb		97
19) N-Nitrosodi-n-propylamine	5.44	70	29872	989.0976640 ppb		96
20) 3&4-Methyl phenol	5.43	107	40564	1066.0479296 ppb		97
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	41194	1043.4284141 ppb		96
25) Isophorone	5.85	82	72938	1007.4692227 ppb		99
26) 2-Nitrophenol	5.93	139	18093	951.8100175 ppb		94
27) 2,4-Dimethylphenol	5.96	107	38792	1014.0560292 ppb		97
28) bis(2-Chlorethoxy)methane	6.06	93	47810	1008.2868037 ppb		96
29) 2,4-Dichlorophenol	6.17	162	31616	1008.4117624 ppb		96
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.26	180	36014	997.1733073 ppb		97
32) Naphthalene	6.35	128	130368	963.4934269 ppb		98
33) 4-Chloroaniline	6.39	65	15347	925.4316582 ppb		97
34) Hexachloro-1,3-butadiene	6.47	225	20197	984.9706117 ppb		98
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.89	107	34728	922.7404273 ppb		94
37) 2-Methylnaphthalene	7.07	142	88656	1018.4948230 ppb		99
38) 1-Methylnaphthalene	7.18	142	82384	1019.8254433 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 04.D Vial: 8
Acq On : 16 Oct 2014 5:23 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:42 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

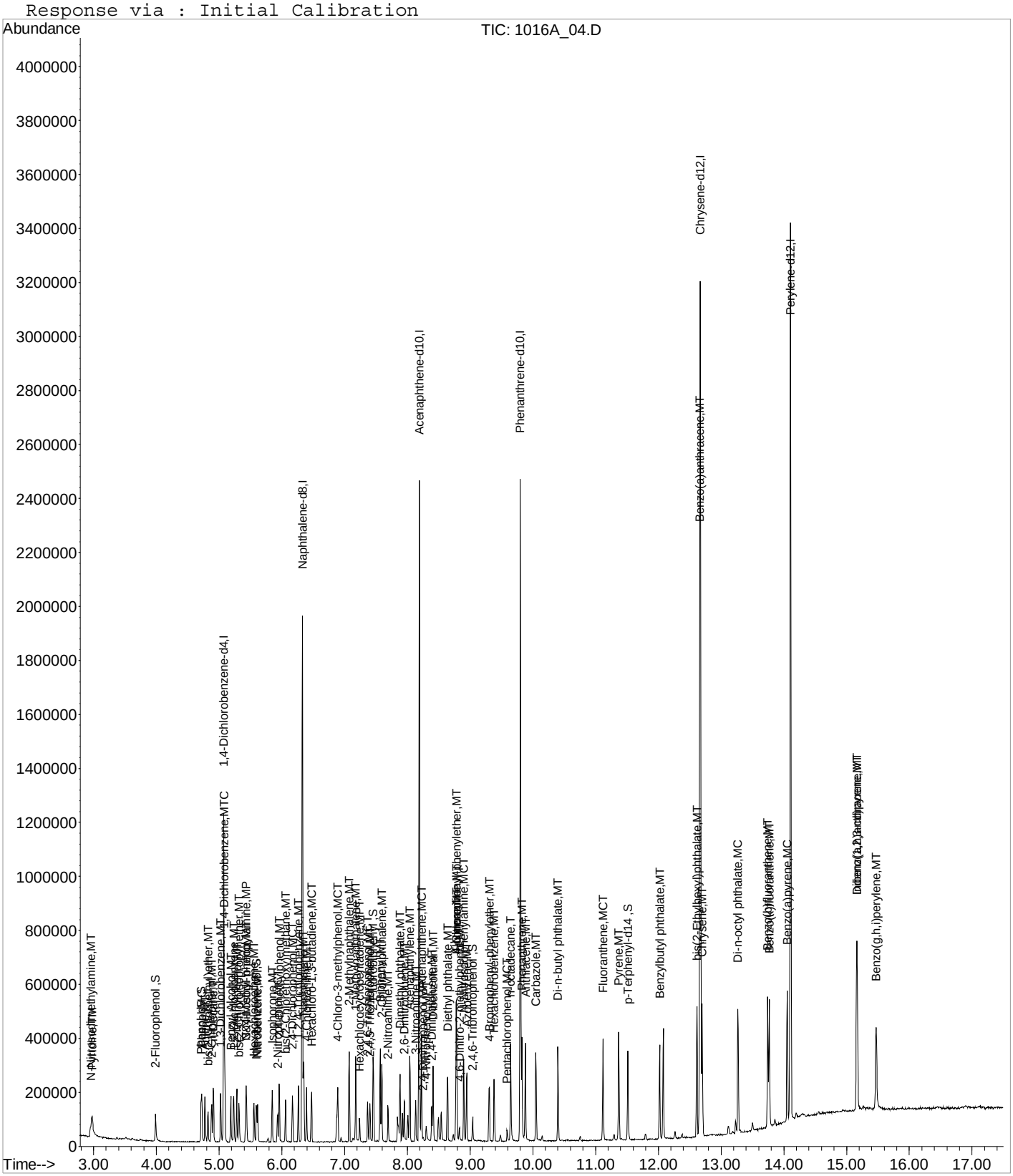
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	11678	995.8863903 ppb		92
42)	2,4,6-Trichlorophenol	7.37	196	19059	975.5244114 ppb		92
43)	2,4,5-Trichlorophenol	7.40	196	22374	1018.5826139 ppb		93
45)	Biphenyl	7.57	154	103683	1020.3112143 ppb		100
46)	2-Chloronaphthalene	7.59	162	82192	1019.3486442 ppb		98
47)	2-Nitroaniline	7.69	138	24472	929.8419542 ppb		91
48)	Acenaphthylene	8.04	152	137265	1030.4487112 ppb		99
49)	Dimethyl phthalate	7.89	163	94166	1028.7911742 ppb		99
50)	2,6-Dinitrotoluene	7.96	165	19596	1047.1284839 ppb		97
51)	3-Nitroaniline	8.13	138	21974	1068.1949250 ppb		98
52)	Acenaphthene	8.23	153	87387	1036.6294396 ppb		99
53)	2,4-Dinitrophenol	8.25	184	1628	271.6515135 ppb	#	77
54)	Dibenzofuran	8.41	168	121763	1027.6765036 ppb		99
55)	2,4-Dinitrotoluene	8.39	165	23556	978.8525357 ppb		97
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.30	139	11514	889.8382836 ppb		91
58)	Fluorene	8.78	166	100229	1027.6140358 ppb		100
59)	4-Chlorophenyl-phenylether	8.78	204	44705	1060.0914321 ppb		94
60)	Diethyl phthalate	8.64	149	97694	980.9535603 ppb		99
61)	4-Nitroaniline	8.79	138	21792	986.6501214 ppb		96
62)	Azobenzene	8.95	77	103708	978.5855535 ppb		97
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.83	198	6516	897.5930265 ppb		94
66)	N-Nitrosodiphenylamine	8.90	169	81994	1048.4831520 ppb		97
68)	4-Bromophenyl-phenylether	9.31	248	24994	1022.7727709 ppb		86
69)	Hexachlorobenzene	9.38	284	28558	1025.2397971 ppb		99
70)	n-octadecane	9.65	55	17658	908.8397360 ppb	#	89
71)	Pentachlorophenol	9.59	266	5172	717.1354714 ppb		94
72)	Phenanthrene	9.82	178	139540	1012.9398313 ppb		99
73)	Anthracene	9.88	178	145054	1039.3070621 ppb		99
74)	Carbazole	10.05	167	138037	1007.8563138 ppb		99
75)	Di-n-butyl phthalate	10.40	149	183947	979.2774427 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.12	202	158973	978.5539379 ppb		99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	167387	975.9671648 ppb		99
82)	Benzylbutyl phthalate	12.02	149	90701	974.8418299 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	12.66	228	176818	980.0379515 ppb		97
85)	Chrysene	12.70	228	161453	1004.0027576 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.61	149	139341	907.6216548 ppb		99
87)	Di-n-octyl phthalate	13.27	149	237415	937.4515606 ppb		100
89)	Benzo(b)fluoranthene	13.74	252	183627	1022.7649994 ppb		99
90)	Benzo(k)fluoranthene	13.77	252	178614	999.0944572 ppb		98
91)	Benzo(a)pyrene	14.05	252	177409	1017.0155354 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.16	276	192387	985.1743908 ppb		94
93)	Dibenz(a,h)anthracene	15.16	278	158605	992.7935831 ppb		95
94)	Benzo(g,h,i)perylene	15.47	276	161856	994.3370247 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 04.D Vial: 8
Acq On : 16 Oct 2014 5:23 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:42 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:43 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	177960	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	756641	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	483307	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	834848	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	930735	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1073123	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	61442	1966.1726645 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 9830.86%#		
7) Phenol-d5	4.71	99	75362	1970.4054811 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 9852.03%#		
23) Nitrobenzene-d5	5.59	82	72533	1927.2076783 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 19272.08%#		
44) 2-Fluorobiphenyl	7.46	172	165084	1971.6978500 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 19716.98%#		
67) 2,4,6-Tribromophenol	9.04	330	16903	2211.3478851 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 11056.74%#		
81) p-Terphenyl-d14	11.51	244	231035	1944.9246156 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 19449.25%#		

Target Compounds						Qvalue
2) Pyridine	2.97	79	98488	1597.7384689 ppb		98
3) N-Nitrosodimethylamine	2.95	42	52807	1548.9558348 ppb		93
5) Aniline	4.78	66	37784	1979.3839849 ppb		94
6) bis(2-Chloroethyl)ether	4.82	63	51781	1966.7955622 ppb		95
8) Phenol	4.72	94	77848	1950.0389222 ppb		95
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.88	128	67967	1992.5030162 ppb		98
11) n-Decane	4.91	41	40495	1952.5594864 ppb	#	97
12) 1,3-Dichlorobenzene	5.02	146	75400	1962.6994292 ppb		99
13) 1,4-Dichlorobenzene	5.09	146	77582	1960.7927506 ppb		97
14) Benzyl Alcohol	5.19	79	55469	1827.1339255 ppb		97
15) 1,2-Dichlorobenzene	5.24	146	75377	2065.5434672 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	22785	1918.8979581 ppb		97
17) 2-Methylphenol	5.28	108	61820	1994.5930129 ppb		99
18) Hexachloroethane	5.56	117	33181	2030.5730529 ppb		98
19) N-Nitrosodi-n-propylamine	5.44	70	50145	1787.5937140 ppb		99
20) 3&4-Methyl phenol	5.43	107	70618	1998.1021089 ppb		99
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	73296	2068.8651491 ppb		95
25) Isophorone	5.85	82	128693	1980.8704670 ppb		100
26) 2-Nitrophenol	5.93	139	34107	1999.4310138 ppb		92
27) 2,4-Dimethylphenol	5.96	107	69805	2033.4314059 ppb		99
28) bis(2-Chlorethoxy)methane	6.06	93	83930	1972.4489765 ppb		97
29) 2,4-Dichlorophenol	6.17	162	56329	2002.1021694 ppb		92
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.26	180	64638	1994.3914773 ppb		98
32) Naphthalene	6.35	128	223205	1838.2513227 ppb		100
33) 4-Chloroaniline	6.39	65	27150	1824.3741418 ppb		100
34) Hexachloro-1,3-butadiene	6.47	225	36239	1969.4085873 ppb		98
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.89	107	65183	1930.0001168 ppb		97
37) 2-Methylnaphthalene	7.07	142	157887	2021.2511538 ppb		98
38) 1-Methylnaphthalene	7.18	142	143643	1981.4843666 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:43 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

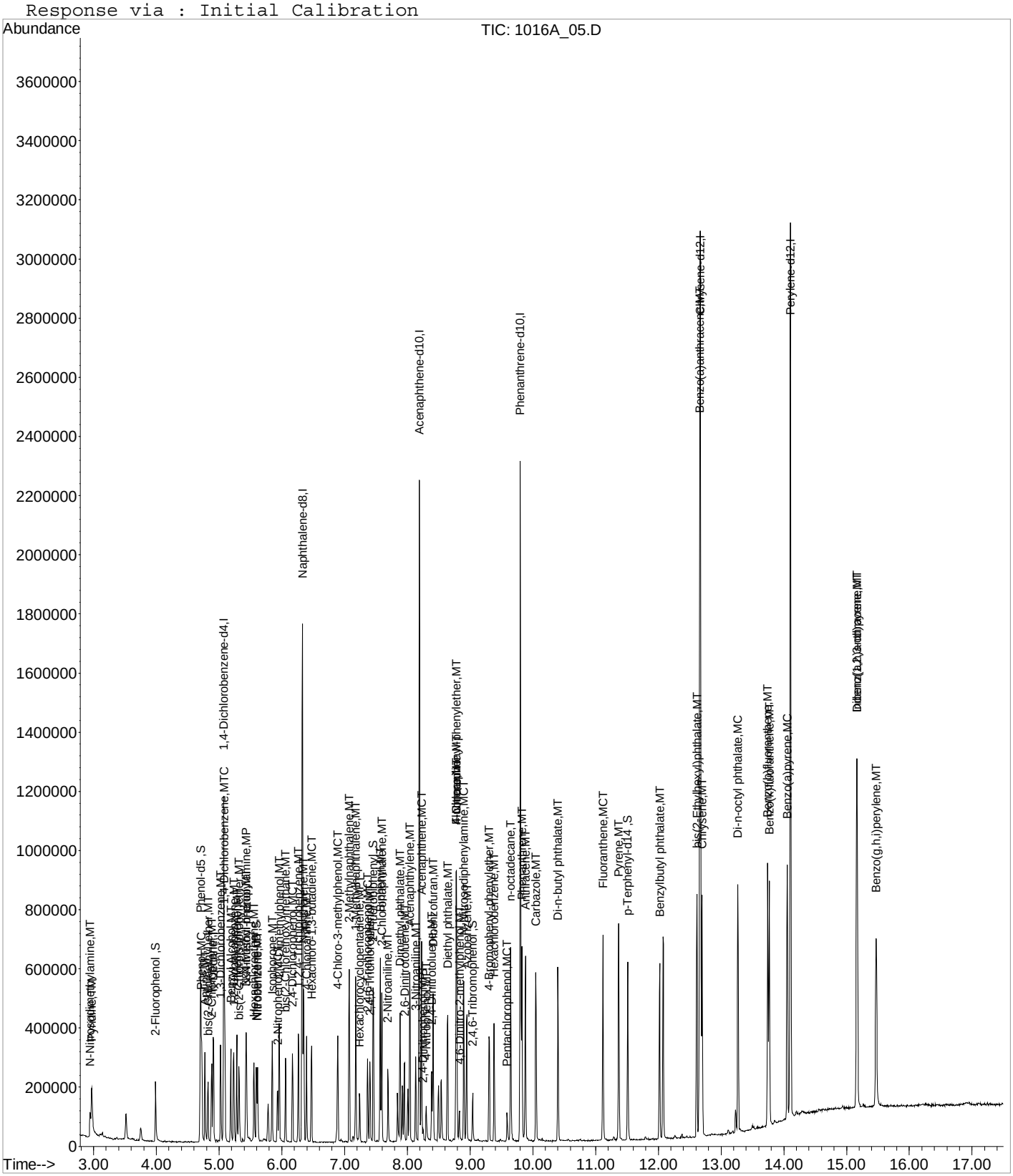
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	25022	2364.7480909 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	34267	1943.7287276 ppb		93
43)	2,4,5-Trichlorophenol	7.40	196	41893	2113.5650765 ppb		95
45)	Biphenyl	7.57	154	182568	1991.0001859 ppb		100
46)	2-Chloronaphthalene	7.59	162	147224	2023.4540736 ppb		99
47)	2-Nitroaniline	7.69	138	44773	1885.2867097 ppb		96
48)	Acenaphthylene	8.04	152	241984	2013.1435994 ppb		99
49)	Dimethyl phthalate	7.88	163	163424	1978.6568394 ppb		99
50)	2,6-Dinitrotoluene	7.96	165	36064	2135.6396448 ppb		99
51)	3-Nitroaniline	8.13	138	39953	2152.3471655 ppb		98
52)	Acenaphthene	8.23	153	151405	1990.3912918 ppb		98
53)	2,4-Dinitrophenol	8.25	184	4823	891.8596744 ppb	#	82
54)	Dibenzofuran	8.41	168	214018	2001.7642368 ppb		99
55)	2,4-Dinitrotoluene	8.39	165	43296	1993.8158160 ppb		96
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.30	139	22202	1901.5094891 ppb		95
58)	Fluorene	8.78	166	176566	2006.1585168 ppb		100
59)	4-Chlorophenyl-phenylether	8.78	204	77335	2032.2861262 ppb		93
60)	Diethyl phthalate	8.64	149	170473	1896.9579206 ppb		99
61)	4-Nitroaniline	8.79	138	41302	2072.3289931 ppb		96
62)	Azobenzene	8.95	77	178867	1870.4163983 ppb		98
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.83	198	13679	2068.6512460 ppb		90
66)	N-Nitrosodiphenylamine	8.90	169	142243	1996.8471430 ppb		96
68)	4-Bromophenyl-phenylether	9.31	248	43126	1937.3902321 ppb		91
69)	Hexachlorobenzene	9.38	284	49727	1959.8573472 ppb		99
70)	n-octadecane	9.65	55	30769	1738.5761256 ppb		99
71)	Pentachlorophenol	9.59	266	12075	1838.0798026 ppb		86
72)	Phenanthrene	9.82	178	245280	1954.7067074 ppb		99
73)	Anthracene	9.88	178	251017	1974.4759088 ppb		99
74)	Carbazole	10.05	167	244893	1962.9715966 ppb		100
75)	Di-n-butyl phthalate	10.40	149	325038	1899.6855265 ppb		98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.12	202	284144	1920.1467619 ppb		99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	298945	1944.8591630 ppb		98
82)	Benzylbutyl phthalate	12.02	149	152955	1834.2948293 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	303960	1879.8198805 ppb		99
85)	Chrysene	12.70	228	282965	1963.3823829 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	238728	1735.0526912 ppb		98
87)	Di-n-octyl phthalate	13.27	149	426651	1879.7358847 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	330835	1988.5617214 ppb		98
90)	Benzo(k)fluoranthene	13.77	252	323808	1954.6406917 ppb		98
91)	Benzo(a)pyrene	14.05	252	316798	1959.8493019 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.16	276	353985	1956.1878590 ppb		95
93)	Dibenz(a,h)anthracene	15.16	278	297039	2006.5217403 ppb		95
94)	Benzo(g,h,i)perylene	15.47	276	295631	1959.9414076 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:43 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:43:31 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	184034	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	791422	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	505220	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	860580	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1037232	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1200333	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	160866	4977.8855167 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 24889.43%#		
7) Phenol-d5	4.72	99	196693	4972.9767312 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 24864.88%#		
23) Nitrobenzene-d5	5.59	82	189377	4810.6289584 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 48106.29%#		
44) 2-Fluorobiphenyl	7.46	172	432228	4938.4518947 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 49384.52%#		
67) 2,4,6-Tribromophenol	9.04	330	48209	6118.3957440 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 30591.98%#		
81) p-Terphenyl-d14	11.52	244	615409	4648.7798280 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 46487.80%#		

Target Compounds					Qvalue
2) Pyridine	2.97	79	256157	4018.3978549 ppb	99
3) N-Nitrosodimethylamine	2.94	42	126910	3599.7116603 ppb	95
5) Aniline	4.78	66	98072	4968.1132017 ppb	96
6) bis(2-Chloroethyl)ether	4.82	63	136796	5024.4267174 ppb	99
8) Phenol	4.73	94	204758	4959.7642122 ppb	99
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	179656	5092.9210507 ppb	98
11) n-Decane	4.91	41	107036	4990.6495349 ppb #	99
12) 1,3-Dichlorobenzene	5.02	146	193803	4878.2862139 ppb	97
13) 1,4-Dichlorobenzene	5.09	146	199983	4887.5153221 ppb	97
14) Benzyl Alcohol	5.19	79	146107	4653.8823483 ppb	99
15) 1,2-Dichlorobenzene	5.24	146	193782	5134.9149580 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.32	121	57555	4687.1649506 ppb	98
17) 2-Methylphenol	5.28	108	160483	5007.0123005 ppb	99
18) Hexachloroethane	5.56	117	86565	5122.6633120 ppb	98
19) N-Nitrosodi-n-propylamine	5.44	70	133401	4598.5890379 ppb	97
20) 3&4-Methyl phenol	5.43	107	186081	5091.2992863 ppb	97
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	194194	5240.4607044 ppb	99
25) Isophorone	5.85	82	329256	4845.2545936 ppb	98
26) 2-Nitrophenol	5.93	139	93349	5231.8384473 ppb	94
27) 2,4-Dimethylphenol	5.96	107	174050	4847.2874542 ppb	98
28) bis(2-Chlorethoxy)methane	6.06	93	218907	4918.4691962 ppb	96
29) 2,4-Dichlorophenol	6.17	162	150124	5101.3611965 ppb	94
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.26	180	170165	5019.6621692 ppb	99
32) Naphthalene	6.35	128	573726	4517.3865220 ppb	99
33) 4-Chloroaniline	6.39	65	71368	4584.8945594 ppb	99
34) Hexachloro-1,3-butadiene	6.47	225	93119	4838.1538859 ppb	97
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	165927	4697.0134492 ppb	98
37) 2-Methylnaphthalene	7.07	142	403905	4943.5039944 ppb	99
38) 1-Methylnaphthalene	7.18	142	377709	4981.3294848 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

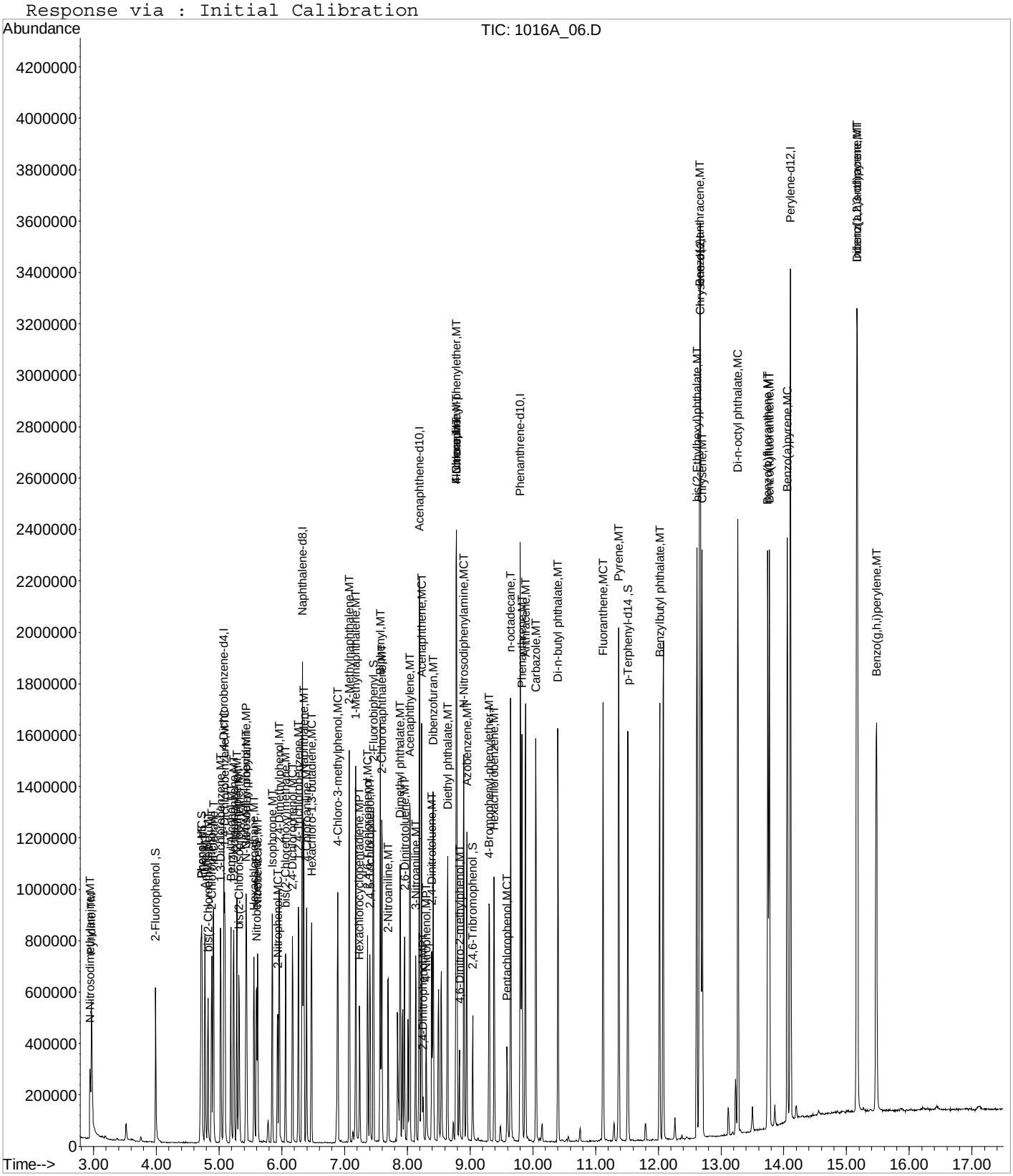
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	78774	7121.7760577 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	97155	5271.9013596 ppb		97
43)	2,4,5-Trichlorophenol	7.40	196	110897	5352.2514813 ppb		96
45)	Biphenyl	7.57	154	476779	4974.0060801 ppb		100
46)	2-Chloronaphthalene	7.59	162	381008	5009.4654305 ppb		99
47)	2-Nitroaniline	7.70	138	121353	4888.2597904 ppb		99
48)	Acenaphthylene	8.04	152	627612	4994.8435861 ppb		99
49)	Dimethyl phthalate	7.89	163	422250	4890.6530387 ppb		98
50)	2,6-Dinitrotoluene	7.96	165	99088	5613.2927602 ppb		94
51)	3-Nitroaniline	8.13	138	109704	5653.6372692 ppb		94
52)	Acenaphthene	8.23	153	396282	4983.6225510 ppb		99
53)	2,4-Dinitrophenol	8.25	184	23355	4131.4422656 ppb	#	75
54)	Dibenzofuran	8.41	168	553258	4950.3154897 ppb		100
55)	2,4-Dinitrotoluene	8.39	165	122406	5392.4052003 ppb		96
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.30	139	71939	5894.0436259 ppb		95
58)	Fluorene	8.78	166	456382	4960.5430779 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	200180	5032.3634362 ppb		94
60)	Diethyl phthalate	8.64	149	441736	4702.2686574 ppb		100
61)	4-Nitroaniline	8.79	138	112807	5414.5980339 ppb		99
62)	Azobenzene	8.95	77	457010	4571.6853529 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.83	198	45499	6674.9949809 ppb		93
66)	N-Nitrosodiphenylamine	8.90	169	371521	5059.5681180 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	114881	5006.5931036 ppb		91
69)	Hexachlorobenzene	9.38	284	126247	4826.9125552 ppb		99
70)	n-octadecane	9.65	55	79903	4379.8534319 ppb		98
71)	Pentachlorophenol	9.59	266	44893	6629.3662676 ppb		96
72)	Phenanthrene	9.83	178	638021	4932.5398366 ppb		99
73)	Anthracene	9.88	178	653756	4988.6215023 ppb		99
74)	Carbazole	10.05	167	632769	4920.3840372 ppb		100
75)	Di-n-butyl phthalate	10.40	149	871047	4938.6167888 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.12	202	757444	4965.4958857 ppb		100
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	797111	4653.3509160 ppb		99
82)	Benzylbutyl phthalate	12.02	149	425638	4580.3218510 ppb		97
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	817161	4534.7940958 ppb		100
85)	Chrysene	12.70	228	749972	4669.4675025 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.61	149	643221	4194.8811648 ppb		100
87)	Di-n-octyl phthalate	13.27	149	1176768	4652.2715186 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	878404m	4720.3009484 ppb		
90)	Benzo(k)fluoranthene	13.77	252	888331m	4794.0431247 ppb		
91)	Benzo(a)pyrene	14.05	252	869383	4808.3840533 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.17	276	991370	4897.8922800 ppb		93
93)	Dibenz(a,h)anthracene	15.16	278	835496	5045.7128060 ppb		98
94)	Benzo(g,h,i)perylene	15.48	276	821236	4867.5324106 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Initial Calibration

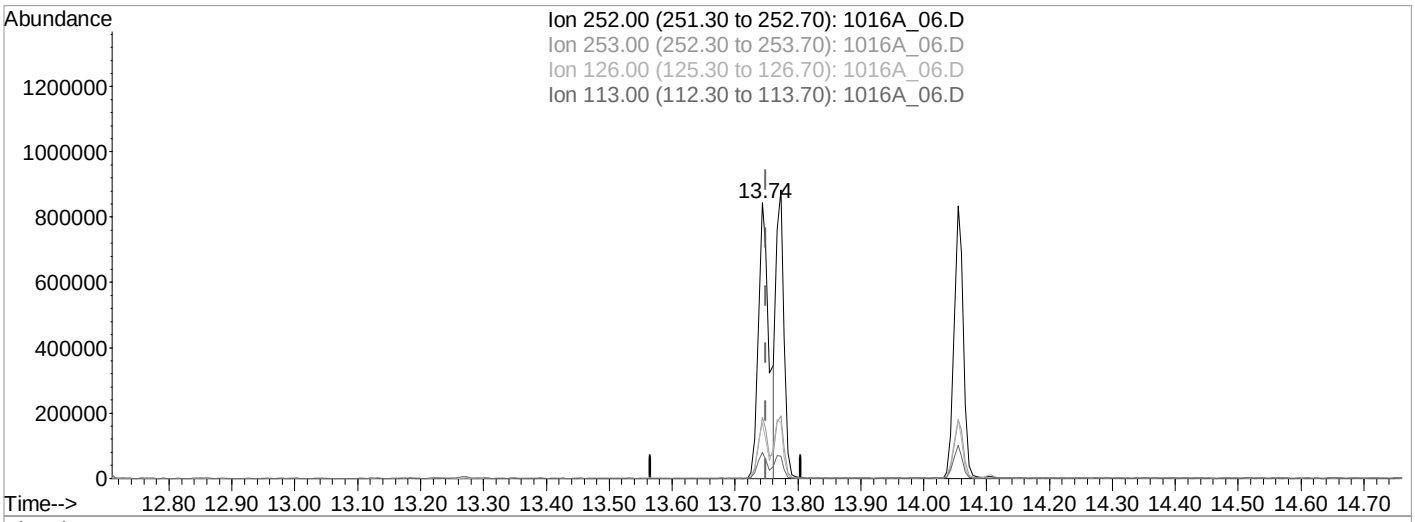


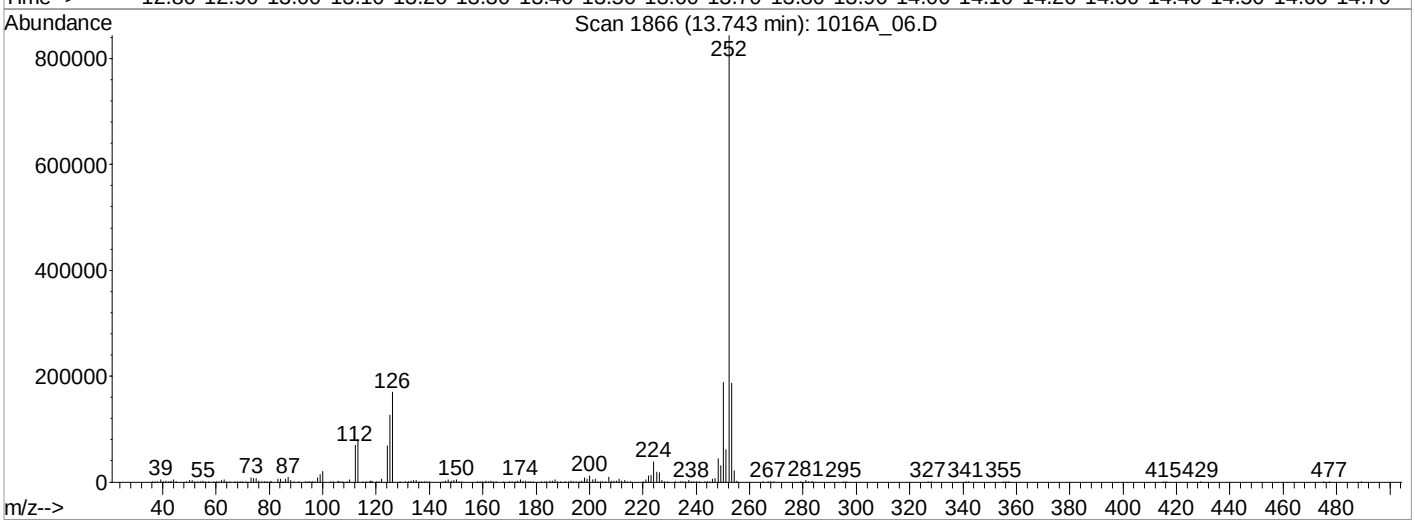
1016A_06.D S804J16N.M Fri Oct 17 08:46:39 2014 1437 of 1618 Page 3

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:45 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Multiple Level Calibration





TIC: 1016A_06.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 5378.5714316 ppb

Qvalue = 98

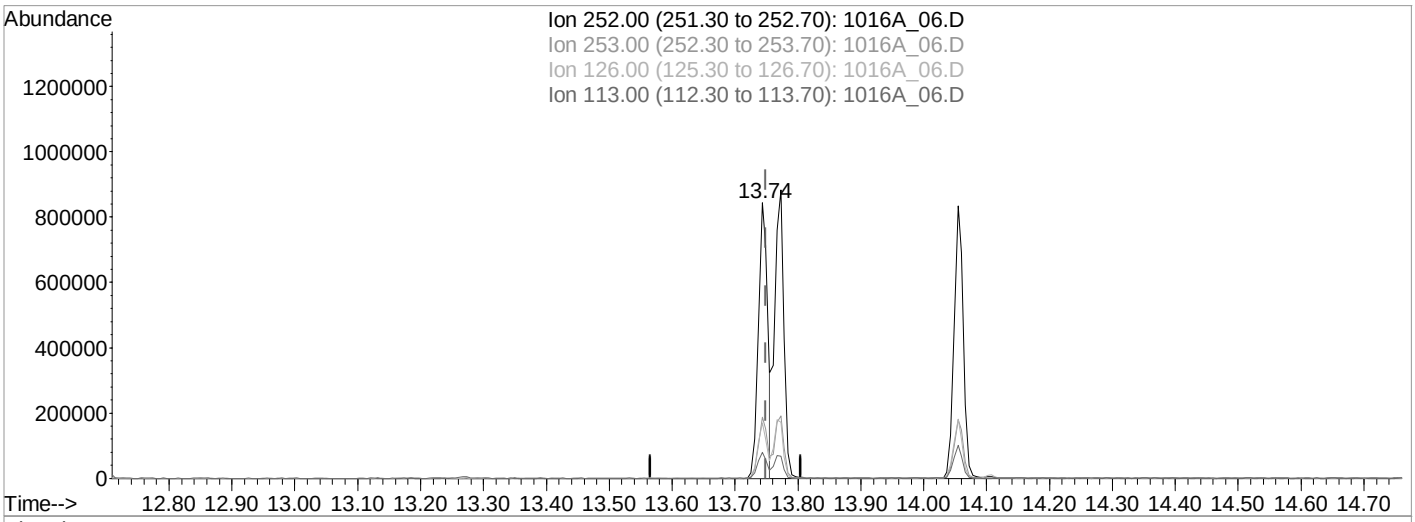
response 1000902

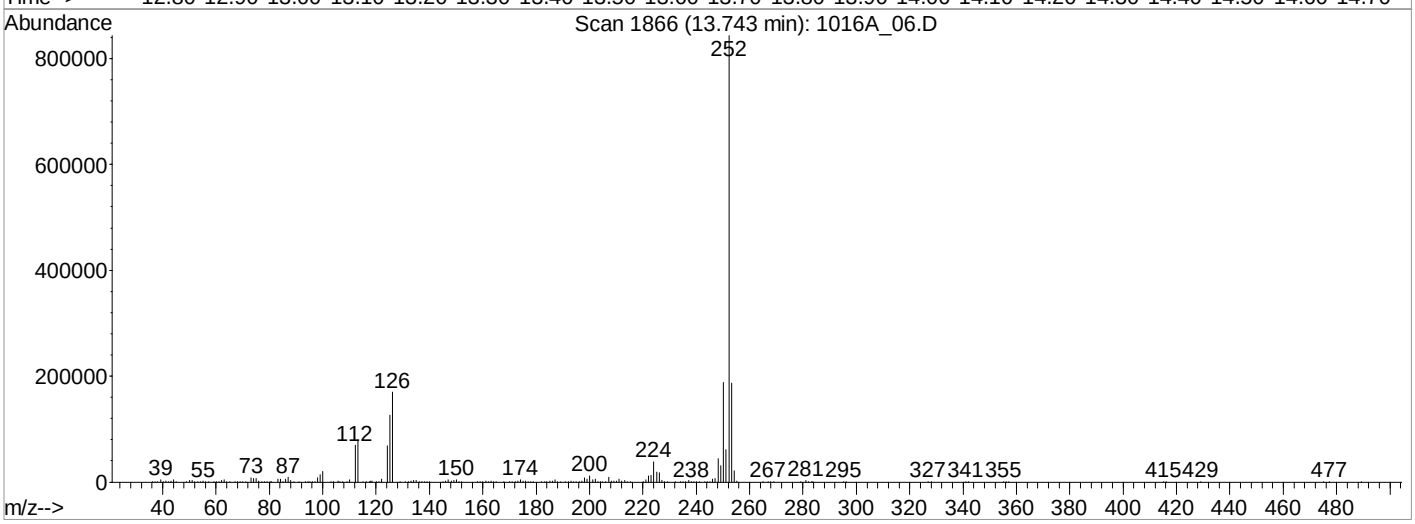
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.39
126.00	19.90	18.65
113.00	9.50	9.09

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Multiple Level Calibration





TIC: 1016A_06.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 4720.3009484 ppb m

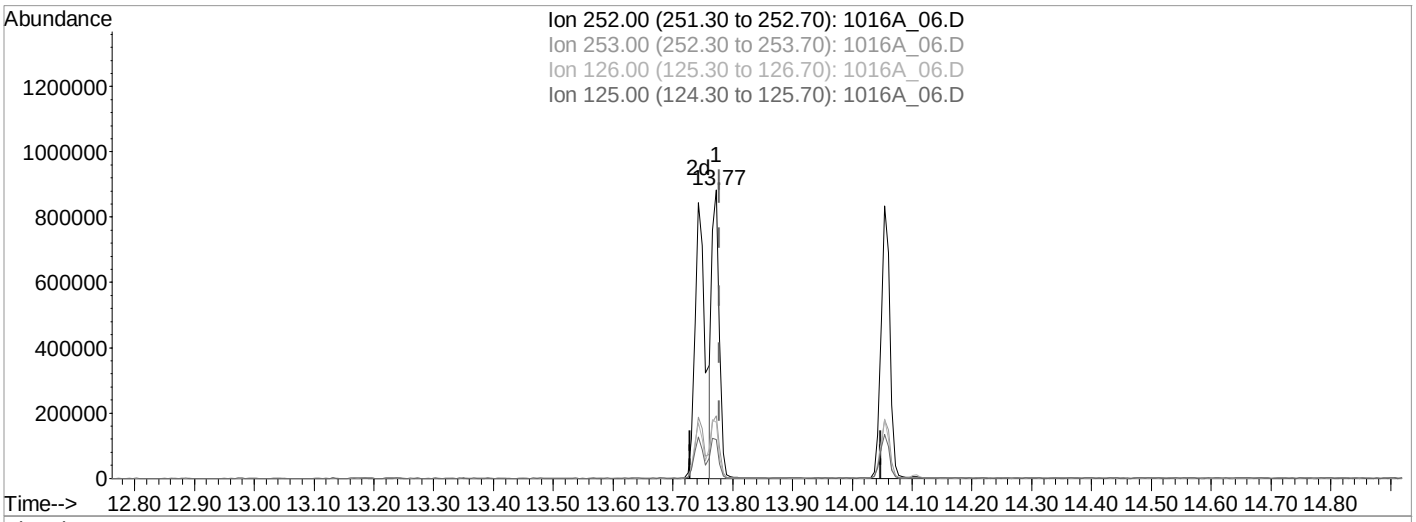
response 878404

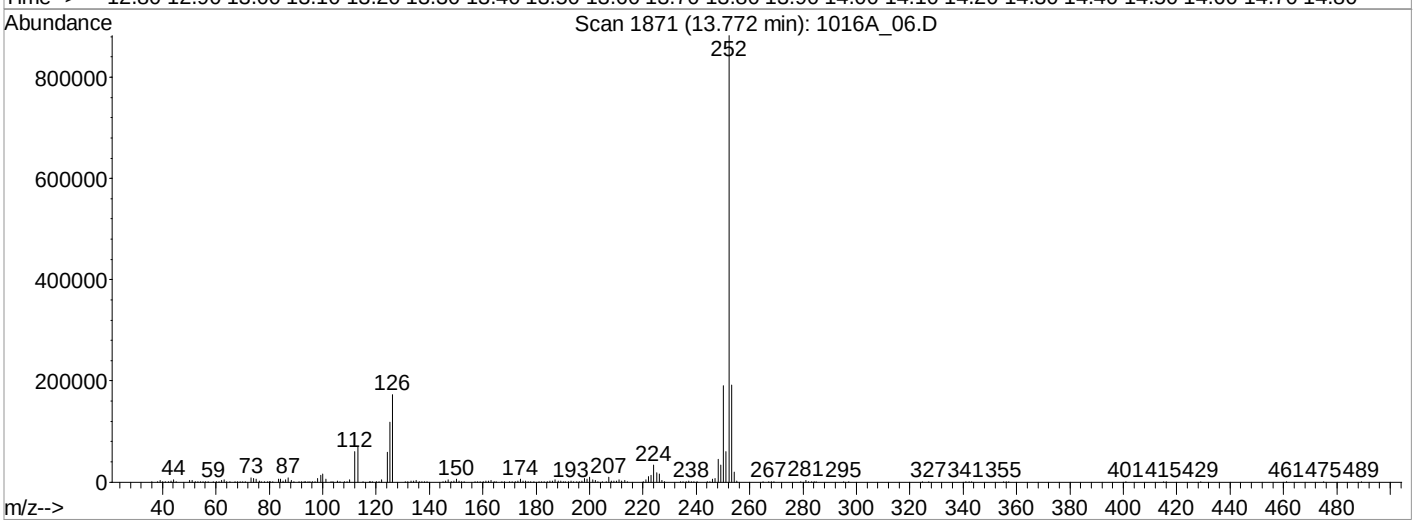
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.21
126.00	19.90	20.19
113.00	9.50	9.36

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Multiple Level Calibration





TIC: 1016A_06.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.006) 4146.8078261 ppb

Qvalue = 99

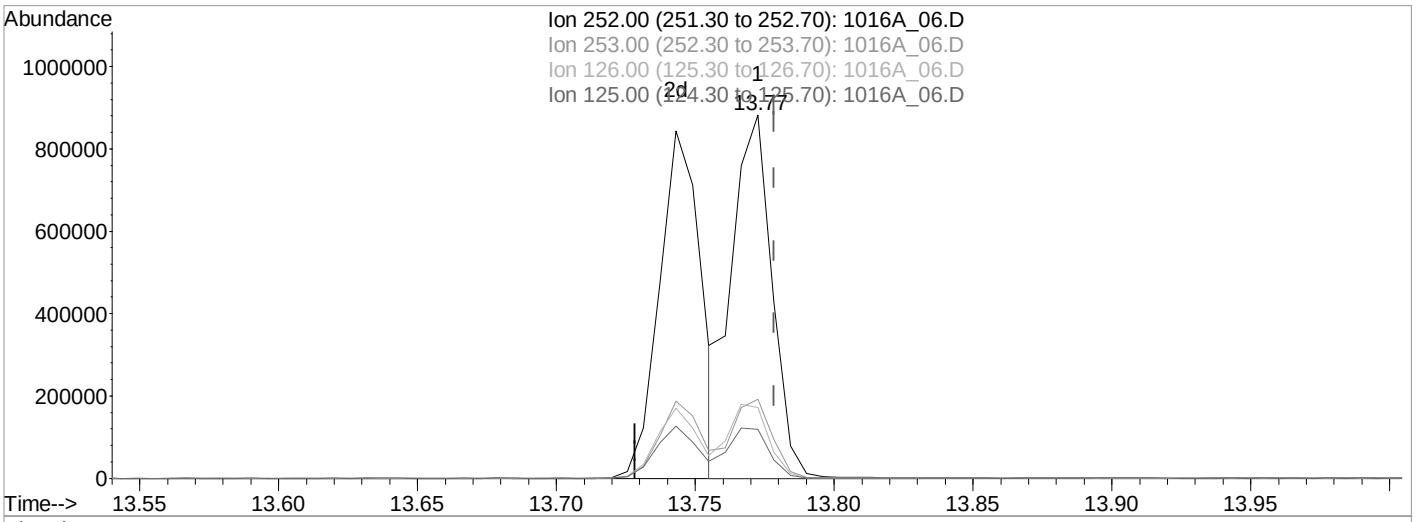
response 768399

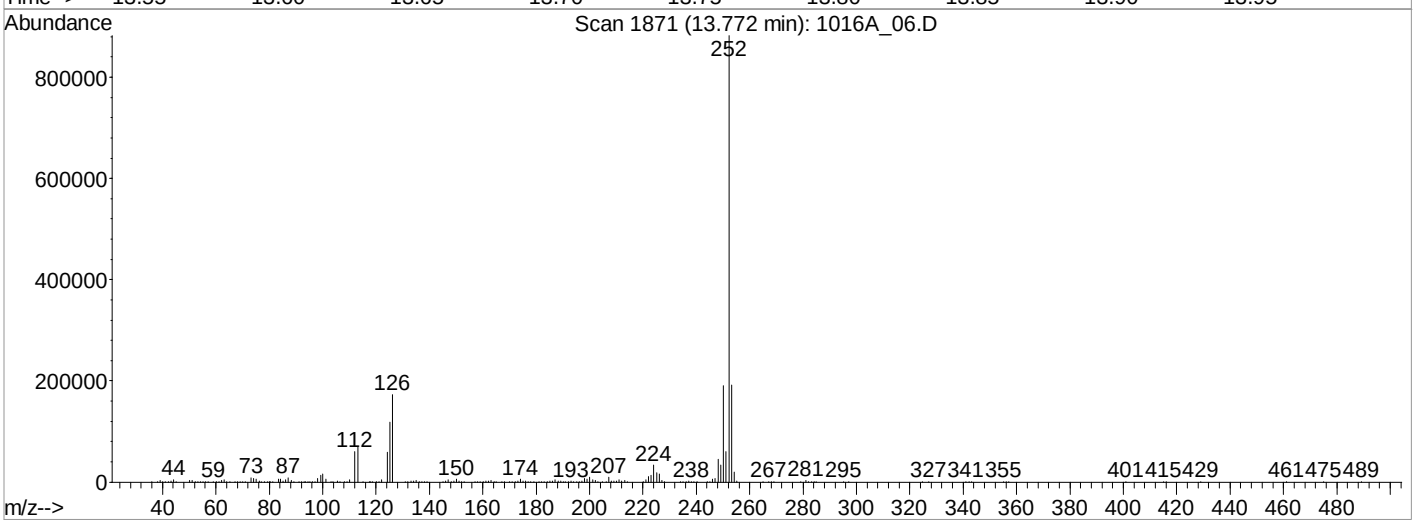
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.64
126.00	19.90	19.53
125.00	13.60	13.38

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Multiple Level Calibration





TIC: 1016A_06.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.006) 4794.0431247 ppb m

response 888331

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.67
126.00	19.90	19.53
125.00	13.60	13.40

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 07.D Vial: 11
Acq On : 16 Oct 2014 6:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:47 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	199327	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	898349	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	600503	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	1095924	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1318244	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1457565	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	703242	20091.7320176 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 100458.66%#		
7) Phenol-d5	4.72	99	862228	20127.1174145 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 100635.59%#		
23) Nitrobenzene-d5	5.60	82	841640	18834.9306927 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 188349.31%#		
44) 2-Fluorobiphenyl	7.46	172	1908179	18342.6633552 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 183426.63%#		
67) 2,4,6-Tribromophenol	9.05	330	245295	24446.0642004 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 122230.32%#		
81) p-Terphenyl-d14	11.52	244	3054174	18153.0253423 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 181530.25%#		

Target Compounds					Qvalue
2) Pyridine	2.97	79	1124833	16291.7106927 ppb	98
3) N-Nitrosodimethylamine	2.95	42	561474	14703.9310083 ppb	99
5) Aniline	4.78	66	420603	19672.1013052 ppb	98
6) bis(2-Chloroethyl)ether	4.82	63	594050	20145.0362523 ppb	96
8) Phenol	4.74	94	883928	19768.2842927 ppb	99
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	772922	20229.8574332 ppb	98
11) n-Decane	4.91	41	440655	18969.5854244 ppb	99
12) 1,3-Dichlorobenzene	5.03	146	845735	19654.9987642 ppb	98
13) 1,4-Dichlorobenzene	5.09	146	858880	19380.2545911 ppb	99
14) Benzyl Alcohol	5.19	79	639888	18818.2952243 ppb	100
15) 1,2-Dichlorobenzene	5.24	146	825780	20203.0117793 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.32	121	241852	18184.8112496 ppb	100
17) 2-Methylphenol	5.29	108	698964	20134.2922158 ppb	98
18) Hexachloroethane	5.56	117	374963	20486.7859497 ppb	96
19) N-Nitrosodi-n-propylamine	5.45	70	568094	18080.8004160 ppb	96
20) 3&4-Methyl phenol	5.43	107	804554	20324.2126221 ppb	99
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	837322	19906.2380553 ppb	96
25) Isophorone	5.85	82	1450292	18801.8847149 ppb	98
26) 2-Nitrophenol	5.93	139	438683	21660.0018732 ppb	99
27) 2,4-Dimethylphenol	5.96	107	807084	19801.8841384 ppb	99
28) bis(2-Chlorethoxy)methane	6.06	93	963253	19066.6198090 ppb	99
29) 2,4-Dichlorophenol	6.18	162	670037	20058.4681069 ppb	96
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	730637	18987.5505358 ppb	99
32) Naphthalene	6.35	128	2480720	17207.7266343 ppb	100
33) 4-Chloroaniline	6.40	65	318625	18033.0299730 ppb	99
34) Hexachloro-1,3-butadiene	6.47	225	405837	18576.1642816 ppb	99
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	761476	18989.9574862 ppb	100
37) 2-Methylnaphthalene	7.07	142	1777619	19167.1425809 ppb	99
38) 1-Methylnaphthalene	7.18	142	1656766	19249.1757939 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 07.D Vial: 11
Acq On : 16 Oct 2014 6:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:47 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

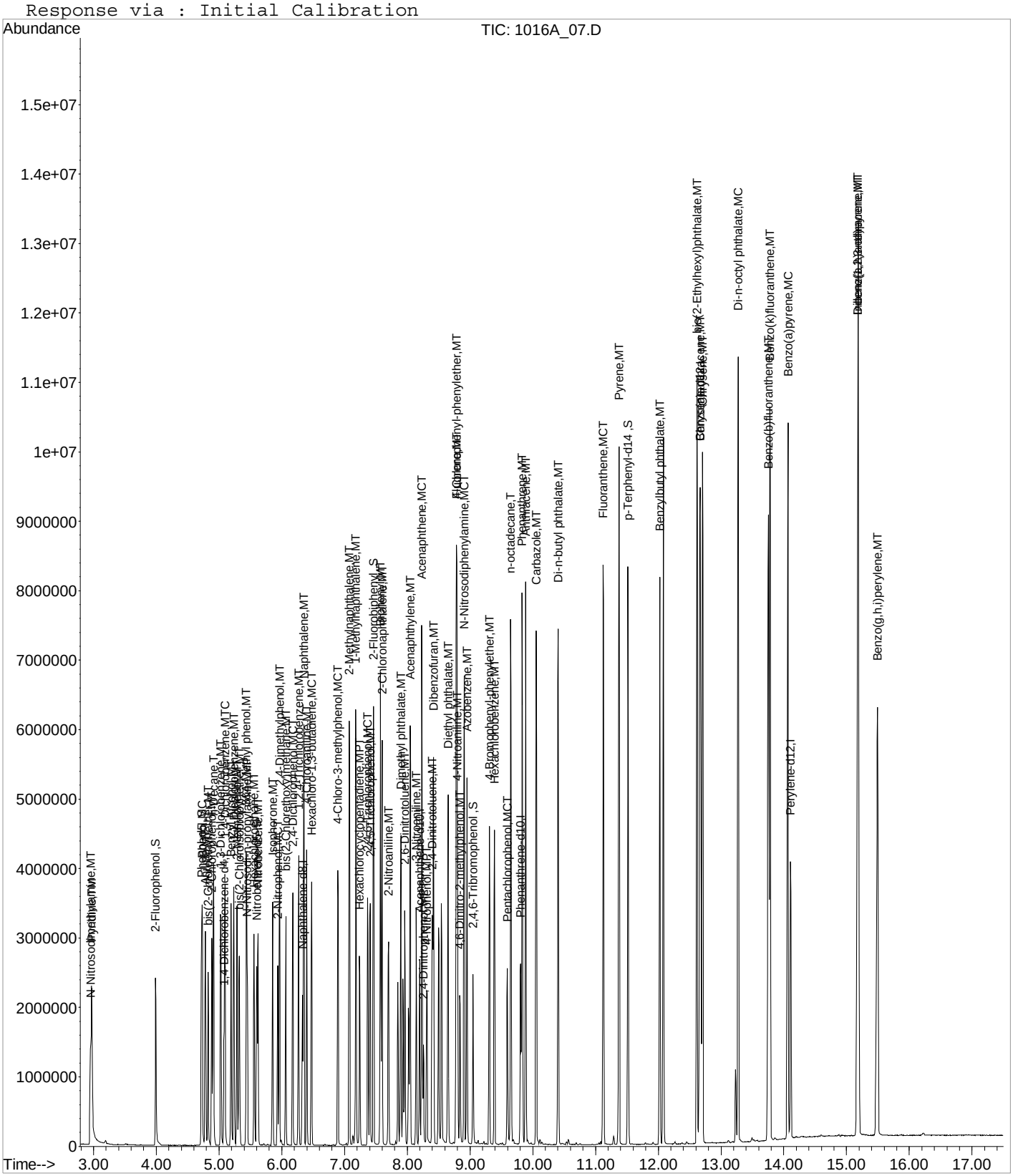
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	438673	33366.5782857	ppb	98
42)	2,4,6-Trichlorophenol	7.37	196	485795	22177.9047190	ppb	98
43)	2,4,5-Trichlorophenol	7.41	196	538964	21884.7617991	ppb	99
45)	Biphenyl	7.57	154	2107175	18495.0347480	ppb	100
46)	2-Chloronaphthalene	7.60	162	1686250	18652.8245453	ppb	99
47)	2-Nitroaniline	7.70	138	589776	19987.3956973	ppb	99
48)	Acenaphthylene	8.04	152	2802125	18762.1892383	ppb	100
49)	Dimethyl phthalate	7.90	163	1885494	18373.3227087	ppb	99
50)	2,6-Dinitrotoluene	7.96	165	455962	21731.5465139	ppb	90
51)	3-Nitroaniline	8.14	138	527863	22887.1677622	ppb	100
52)	Acenaphthene	8.23	153	1780650	18840.1654930	ppb	99
53)	2,4-Dinitrophenol	8.26	184	191014	28428.3968114	ppb	91
54)	Dibenzofuran	8.42	168	2461047	18526.3743948	ppb	100
55)	2,4-Dinitrotoluene	8.40	165	625764	23192.9365802	ppb	90
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.31	139	409747	28244.2524847	ppb	96
58)	Fluorene	8.79	166	2014545	18422.2658061	ppb	100
59)	4-Chlorophenyl-phenylether	8.78	204	881648	18647.1254716	ppb	99
60)	Diethyl phthalate	8.65	149	2135073	19121.5338082	ppb	99
61)	4-Nitroaniline	8.80	138	577550	23323.0376217	ppb	98
62)	Azobenzene	8.95	77	2086121	17557.2089311	ppb	100
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.84	198	311932	35935.1806665	ppb	96
66)	N-Nitrosodiphenylamine	8.91	169	1721214	18406.6926713	ppb	100
68)	4-Bromophenyl-phenylether	9.31	248	522036	17865.0959816	ppb	97
69)	Hexachlorobenzene	9.39	284	593847	17829.2774057	ppb	99
70)	n-octadecane	9.65	55	356718	15354.3815140	ppb	99
71)	Pentachlorophenol	9.59	266	301889	35006.7252175	ppb	98
72)	Phenanthrene	9.83	178	3043668	18477.5215429	ppb	99
73)	Anthracene	9.89	178	3183529	19075.8758795	ppb	100
74)	Carbazole	10.05	167	3118735	19043.3386934	ppb	100
75)	Di-n-butyl phthalate	10.41	149	4309907	19188.5628569	ppb	100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.12	202	3726227	19181.9262120	ppb	99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.38	202	3951256	18149.4000744	ppb	99
82)	Benzylbutyl phthalate	12.02	149	2141260	18130.3049970	ppb	95
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	4057224	17715.7291018	ppb	99
85)	Chrysene	12.70	228	3684007	18047.7413425	ppb	98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	3242403	16638.2077829	ppb	99
87)	Di-n-octyl phthalate	13.27	149	5867304	18251.2619175	ppb	100
89)	Benzo(b)fluoranthene	13.75	252	4537474	20079.9833372	ppb	99
90)	Benzo(k)fluoranthene	13.78	252	3935888	17492.1690140	ppb	95
91)	Benzo(a)pyrene	14.07	252	4184141	19057.5966334	ppb	98
92)	Indeno(1,2,3-cd)pyrene	15.19	276	4512677	18360.3739043	ppb	97
93)	Dibenz(a,h)anthracene	15.18	278	3795621	18877.0796443	ppb	97
94)	Benzo(g,h,i)perylene	15.49	276	3715622	18136.1965363	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 07.D Vial: 11
Acq On : 16 Oct 2014 6:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:47 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:46:43 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 08.D Vial: 12
Acq On : 16 Oct 2014 6:50 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:48 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	184629	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	804221	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	525227	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	947045	8000.00 ppb	0.00
78) Chrysene-d12	12.68	240	1210275	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1314415	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.00	112	981174	30263.8949559 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 151319.47%#		
7) Phenol-d5	4.72	99	1196732	30159.3915100 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 150796.96%#		
23) Nitrobenzene-d5	5.61	82	1162876	29069.7131011 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 290697.13%#		
44) 2-Fluorobiphenyl	7.46	172	2585030	28410.3777973 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 284103.78%#		
67) 2,4,6-Tribromophenol	9.05	330	341730	39410.6121834 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 197053.06%#		
81) p-Terphenyl-d14	11.52	244	4153866	26891.7745489 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 268917.75%#		

Target Compounds					Qvalue
2) Pyridine	2.97	79	1571798	24577.7195916 ppb	98
3) N-Nitrosodimethylamine	2.95	42	794886	22473.7148901 ppb	99
5) Aniline	4.78	66	582948	29435.7032346 ppb	99
6) bis(2-Chloroethyl)ether	4.83	63	808228	29590.0131343 ppb	98
8) Phenol	4.74	94	1218070	29409.6967859 ppb	97
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.89	128	1076054	30405.8698610 ppb	96
11) n-Decane	4.91	41	604959	28115.8548361 ppb	99
12) 1,3-Dichlorobenzene	5.03	146	1167588	29295.0708564 ppb	99
13) 1,4-Dichlorobenzene	5.09	146	1175686	28640.7606378 ppb	98
14) Benzyl Alcohol	5.19	79	885853	28125.7547154 ppb	99
15) 1,2-Dichlorobenzene	5.24	146	1135988	30004.8675135 ppb	98
16) bis(2-Chloroisopropyl)ethe	5.32	121	333140	27042.8281811 ppb	98
17) 2-Methylphenol	5.29	108	960698	29876.8398303 ppb	99
18) Hexachloroethane	5.56	117	517643	30533.8784973 ppb	97
19) N-Nitrosodi-n-propylamine	5.45	70	788858	27105.8166894 ppb	98
20) 3&4-Methyl phenol	5.44	107	1092984	29808.3919877 ppb	96
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	1153216	30625.0657631 ppb	99
25) Isophorone	5.86	82	1982293	28706.7125675 ppb	99
26) 2-Nitrophenol	5.93	139	612100	33759.7905810 ppb	98
27) 2,4-Dimethylphenol	5.96	107	1061599	29094.9729341 ppb	99
28) bis(2-Chlorethoxy)methane	6.06	93	1302609	28801.6315544 ppb	97
29) 2,4-Dichlorophenol	6.18	162	921880	30827.8366687 ppb	95
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	992992	28825.8890264 ppb	98
32) Naphthalene	6.35	128	3358893	26026.2500979 ppb	100
33) 4-Chloroaniline	6.40	65	428575	27094.7637927 ppb	98
34) Hexachloro-1,3-butadiene	6.47	225	553090	28279.3804092 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.90	107	1035834	28855.4342229 ppb	97
37) 2-Methylnaphthalene	7.08	142	2413215	29065.9408534 ppb	99
38) 1-Methylnaphthalene	7.19	142	2255854	29277.3411408 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 08.D Vial: 12
Acq On : 16 Oct 2014 6:50 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:48 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

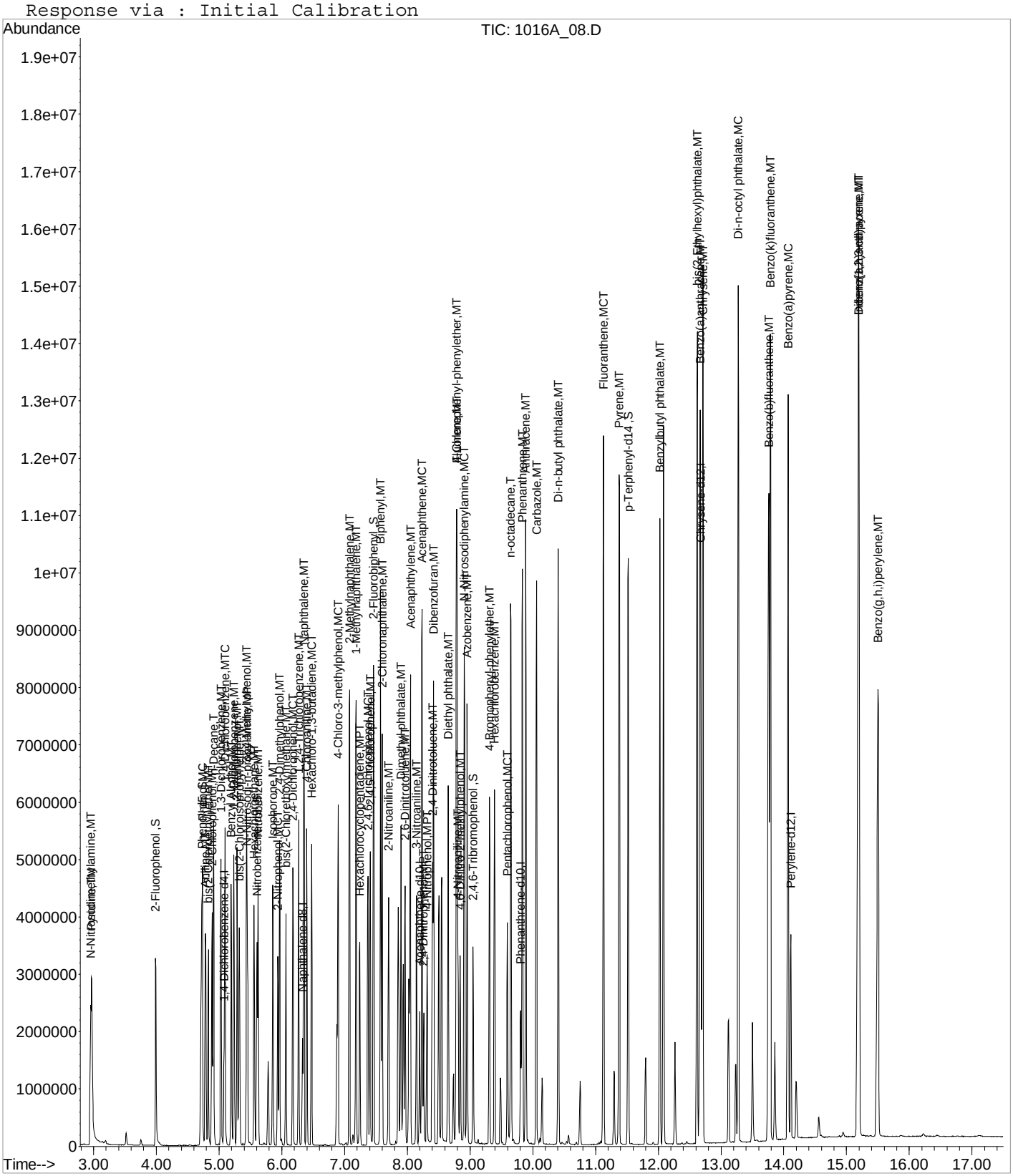
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	d		
41)	Hexachlorocyclopentadiene	7.24	237	603591	52490.6149922	ppb		99
42)	2,4,6-Trichlorophenol	7.37	196	673457	35151.6311152	ppb		95
43)	2,4,5-Trichlorophenol	7.41	196	735864	34162.3518407	ppb		98
45)	Biphenyl	7.57	154	2846010	28560.0593863	ppb		100
46)	2-Chloronaphthalene	7.60	162	2287926	28935.6174447	ppb		98
47)	2-Nitroaniline	7.70	138	805647	31216.3446464	ppb		100
48)	Acenaphthylene	8.05	152	3737494	28611.7649924	ppb		100
49)	Dimethyl phthalate	7.90	163	2589116	28845.7738783	ppb		98
50)	2,6-Dinitrotoluene	7.97	165	616288	33582.5626178	ppb		92
51)	3-Nitroaniline	8.15	138	723964	35888.5523311	ppb		96
52)	Acenaphthene	8.24	153	2383698	28835.3693950	ppb		99
53)	2,4-Dinitrophenol	8.26	184	292473	49766.9570879	ppb	#	85
54)	Dibenzofuran	8.42	168	3283405	28259.4120373	ppb		100
55)	2,4-Dinitrotoluene	8.40	165	861280	36497.0418981	ppb		94
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	d		
57)	4-Nitrophenol	8.31	139	567236	44703.9837286	ppb		93
58)	Fluorene	8.79	166	2721754	28456.6045761	ppb		100
59)	4-Chlorophenyl-phenylether	8.78	204	1176508	28449.8308732	ppb		97
60)	Diethyl phthalate	8.65	149	2868689	29373.8994021	ppb		100
61)	4-Nitroaniline	8.81	138	779640	35996.2927654	ppb		99
62)	Azobenzene	8.95	77	2892277	27830.6919490	ppb		99
63)	Atrazine	0.00	200	0	N.D.	d		
65)	4,6-Dinitro-2-methylphenol	8.84	198	446786	59562.0012271	ppb		93
66)	N-Nitrosodiphenylamine	8.91	169	2357871	29179.0235501	ppb		100
68)	4-Bromophenyl-phenylether	9.31	248	719419	28490.2740138	ppb		89
69)	Hexachlorobenzene	9.39	284	809682	28130.8906305	ppb		98
70)	n-octadecane	9.65	55	471040	23462.5339264	ppb		98
71)	Pentachlorophenol	9.59	266	440114	59058.0635374	ppb		96
72)	Phenanthrene	9.84	178	4198681	29496.4086244	ppb		100
73)	Anthracene	9.89	178	4362380	30248.8587159	ppb		100
74)	Carbazole	10.06	167	4290846	30319.1741450	ppb		99
75)	Di-n-butyl phthalate	10.41	149	5846621	30122.3821930	ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	d		
77)	Fluoranthene	11.13	202	5155285	30710.3954897	ppb		99
79)	Benzidine	0.00	184	0	N.D.	d		
80)	Pyrene	11.38	202	5463160	27332.7145984	ppb		100
82)	Benzylbutyl phthalate	12.03	149	2978517	27469.2960503	ppb		99
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.	d		
84)	Benzo(a)anthracene	12.67	228	5597341	26620.9501079	ppb		99
85)	Chrysene	12.71	228	5090734	27164.0522561	ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.62	149	4474270	25007.6844094	ppb		99
87)	Di-n-octyl phthalate	13.27	149	8007620	27131.2312700	ppb		99
89)	Benzo(b)fluoranthene	13.76	252	6552503	32155.2471237	ppb		97
90)	Benzo(k)fluoranthene	13.78	252	5267487	25959.7096310	ppb		95
91)	Benzo(a)pyrene	14.07	252	5760288	29093.8664887	ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.19	276	6139797	27701.0804551	ppb		97
93)	Dibenz(a,h)anthracene	15.19	278	5198833	28671.6877933	ppb		95
94)	Benzo(g,h,i)perylene	15.50	276	5067524	27428.7443474	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 08.D Vial: 12
Acq On : 16 Oct 2014 6:50 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:48 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:48:04 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	179551	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	790294	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	494617	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	883591	8000.00 ppb	0.00
78) Chrysene-d12	12.68	240	1008412	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1213859	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	1290200	40921.1581164 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 204605.79%#		
7) Phenol-d5	4.72	99	1560116	40429.1537658 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 202145.77%#		
23) Nitrobenzene-d5	5.61	82	1518329	38624.2402519 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 386242.40%#		
44) 2-Fluorobiphenyl	7.46	172	3277179	38246.3142539 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 382463.14%#		
67) 2,4,6-Tribromophenol	9.05	330	428515	52968.2268888 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 264841.13%#		
81) p-Terphenyl-d14	11.52	244	4912833	38172.0108006 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 381720.11%#		

Target Compounds						Qvalue
2) Pyridine	2.97	79	2060534	33131.1665303 ppb		99
3) N-Nitrosodimethylamine	2.95	42	1045810	30404.2922487 ppb		99
5) Aniline	4.79	66	755930	39249.8742370 ppb		98
6) bis(2-Chloroethyl)ether	4.83	63	1049192	39498.2928695 ppb		99
8) Phenol	4.74	94	1585332	39359.5944629 ppb		96
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.89	128	1397929	40618.1902773 ppb		98
11) n-Decane	4.91	41	778852	37221.3721252 ppb	#	99
12) 1,3-Dichlorobenzene	5.03	146	1509288	38939.3894950 ppb		99
13) 1,4-Dichlorobenzene	5.09	146	1531618	38366.8153465 ppb		98
14) Benzyl Alcohol	5.19	79	1144511	37365.8258144 ppb		99
15) 1,2-Dichlorobenzene	5.24	146	1476925	40113.3100932 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	429765	35873.0630089 ppb		98
17) 2-Methylphenol	5.29	108	1241112	39689.0621043 ppb		100
18) Hexachloroethane	5.56	117	675954	40999.7170110 ppb		97
19) N-Nitrosodi-n-propylamine	5.46	70	1007383	35593.4733045 ppb		97
20) 3&4-Methyl phenol	5.44	107	1431216	40136.7326947 ppb		98
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	1501271	40570.6710110 ppb		99
25) Isophorone	5.86	82	2566677	37824.5314539 ppb		99
26) 2-Nitrophenol	5.94	139	798510	44817.1719593 ppb		93
27) 2,4-Dimethylphenol	5.97	107	1369895	38205.9903688 ppb		99
28) bis(2-Chlorethoxy)methane	6.07	93	1680086	37802.5636536 ppb		99
29) 2,4-Dichlorophenol	6.18	162	1193650	40619.2951644 ppb		93
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.27	180	1291302	38146.2199843 ppb		99
32) Naphthalene	6.35	128	4315795	34030.0793383 ppb		100
33) 4-Chloroaniline	6.40	65	559202	35976.0912433 ppb		100
34) Hexachloro-1,3-butadiene	6.48	225	710228	36953.7569516 ppb		98
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.90	107	1312957	37219.8552219 ppb		97
37) 2-Methylnaphthalene	7.08	142	3082597	37782.6004215 ppb		100
38) 1-Methylnaphthalene	7.19	142	2876641	37992.0768726 ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

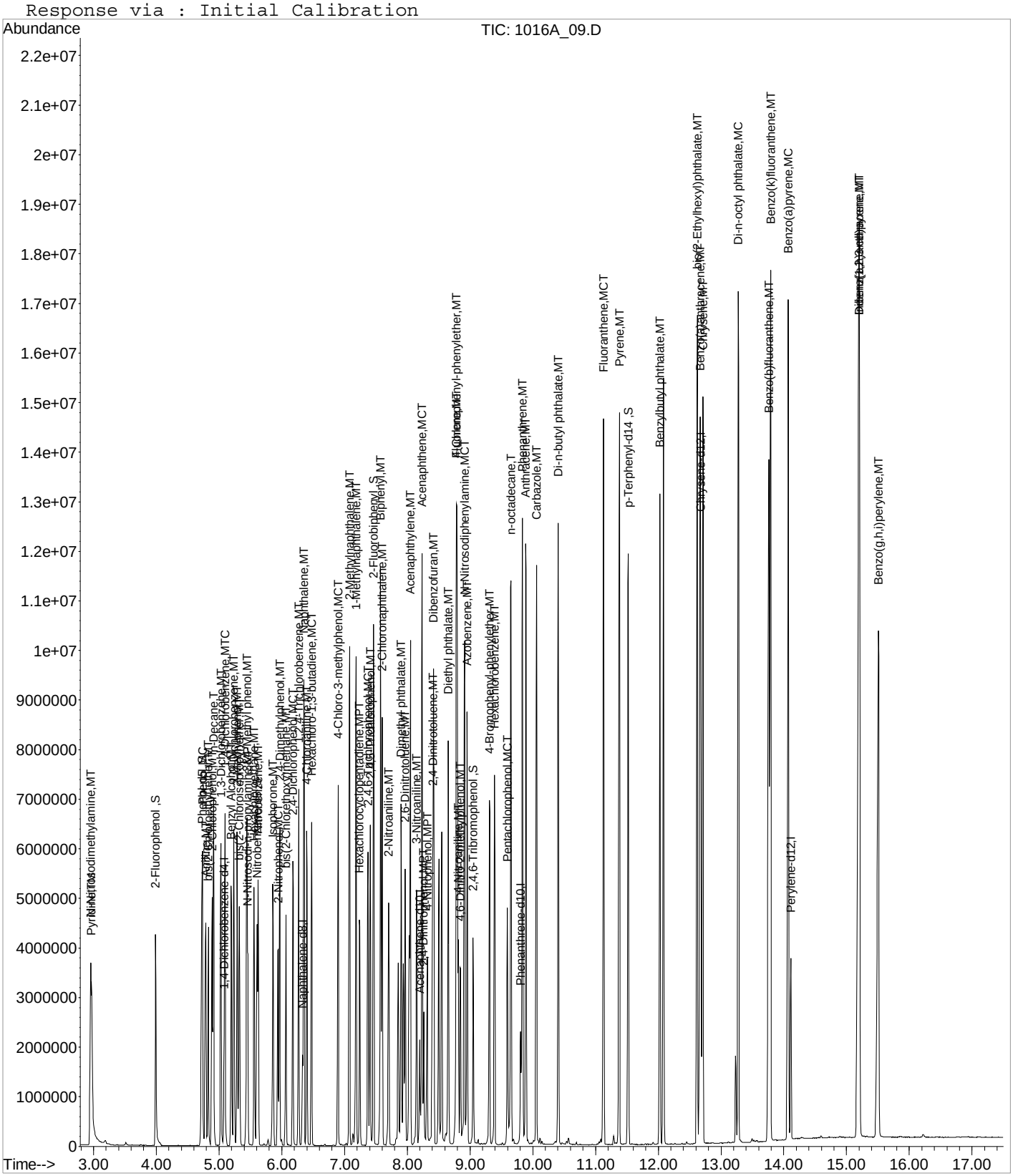
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	790437	72993.4971311 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	879988	48774.2236184 ppb		96
43)	2,4,5-Trichlorophenol	7.41	196	932096	45950.3531069 ppb		96
45)	Biphenyl	7.57	154	3619316	38568.0064968 ppb		100
46)	2-Chloronaphthalene	7.60	162	2917534	39181.8295247 ppb		99
47)	2-Nitroaniline	7.70	138	1037335	42680.9707452 ppb		100
48)	Acenaphthylene	8.05	152	4755737	38659.8334756 ppb		100
49)	Dimethyl phthalate	7.90	163	3313005	39195.0102206 ppb		98
50)	2,6-Dinitrotoluene	7.97	165	784909	45417.9402958 ppb		89
51)	3-Nitroaniline	8.15	138	911517	47982.3756530 ppb		99
52)	Acenaphthene	8.24	153	3028777	38906.2694638 ppb		99
53)	2,4-Dinitrophenol	8.26	184	374489	67666.2918514 ppb	#	81
54)	Dibenzofuran	8.42	168	4131280	37757.3322485 ppb		99
55)	2,4-Dinitrotoluene	8.40	165	1087188	48921.0712336 ppb		91
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.32	139	694064	58084.4610268 ppb		97
58)	Fluorene	8.79	166	3442990	38225.0423334 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	1479703	37995.9548677 ppb		97
60)	Diethyl phthalate	8.65	149	3688981	40110.9139720 ppb		99
61)	4-Nitroaniline	8.81	138	957916	46964.4341753 ppb		99
62)	Azobenzene	8.95	77	3597995	36763.9934646 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.85	198	557349	79637.2552343 ppb		99
66)	N-Nitrosodiphenylamine	8.91	169	2980806	39537.0040475 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	901175	38251.0349176 ppb		90
69)	Hexachlorobenzene	9.39	284	996438	37105.5275784 ppb		97
70)	n-octadecane	9.65	55	615697	32870.2868961 ppb		99
71)	Pentachlorophenol	9.60	266	552445	79455.2133661 ppb		96
72)	Phenanthrene	9.84	178	5257544	39587.5394442 ppb		100
73)	Anthracene	9.89	178	5292917	39336.8804117 ppb		100
74)	Carbazole	10.06	167	5019064	38011.6310414 ppb		99
75)	Di-n-butyl phthalate	10.41	149	6999481	38651.7839479 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.13	202	6047599	38613.1336624 ppb		100
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.38	202	6467958	38837.5741197 ppb		99
82)	Benzylbutyl phthalate	12.03	149	3519064	38951.1845290 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.67	228	6588841	37609.4403121 ppb		99
85)	Chrysene	12.71	228	6066317	38849.4889812 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.62	149	5320382	35689.4754352 ppb		99
87)	Di-n-octyl phthalate	13.27	149	9438736	38381.8535646 ppb		97
89)	Benzo(b)fluoranthene	13.76	252	7901187	41985.6834968 ppb		100
90)	Benzo(k)fluoranthene	13.79	252	6702294m	35767.1302592 ppb		
91)	Benzo(a)pyrene	14.07	252	7343270	40161.5998398 ppb		100
92)	Indeno(1,2,3-cd)pyrene	15.21	276	8102983	39586.9359116 ppb		94
93)	Dibenz(a,h)anthracene	15.20	278	6812126	40681.2536766 ppb		95
94)	Benzo(g,h,i)perylene	15.51	276	6721361	39394.1376447 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: S804J16N.RES

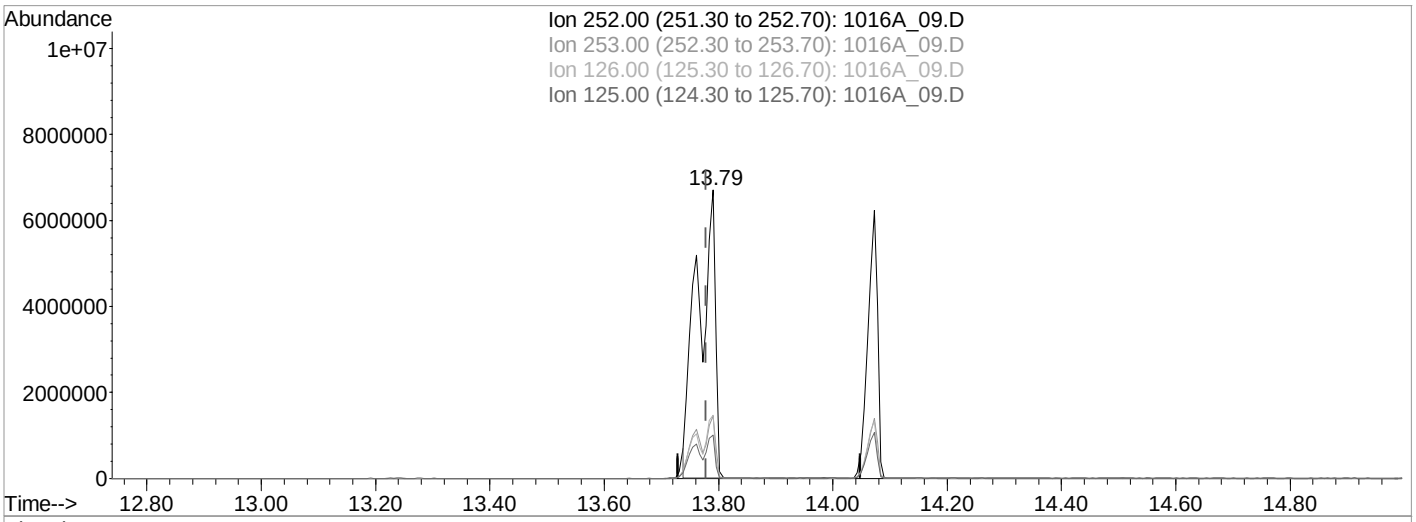
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:49:46 2014
Response via : Initial Calibration

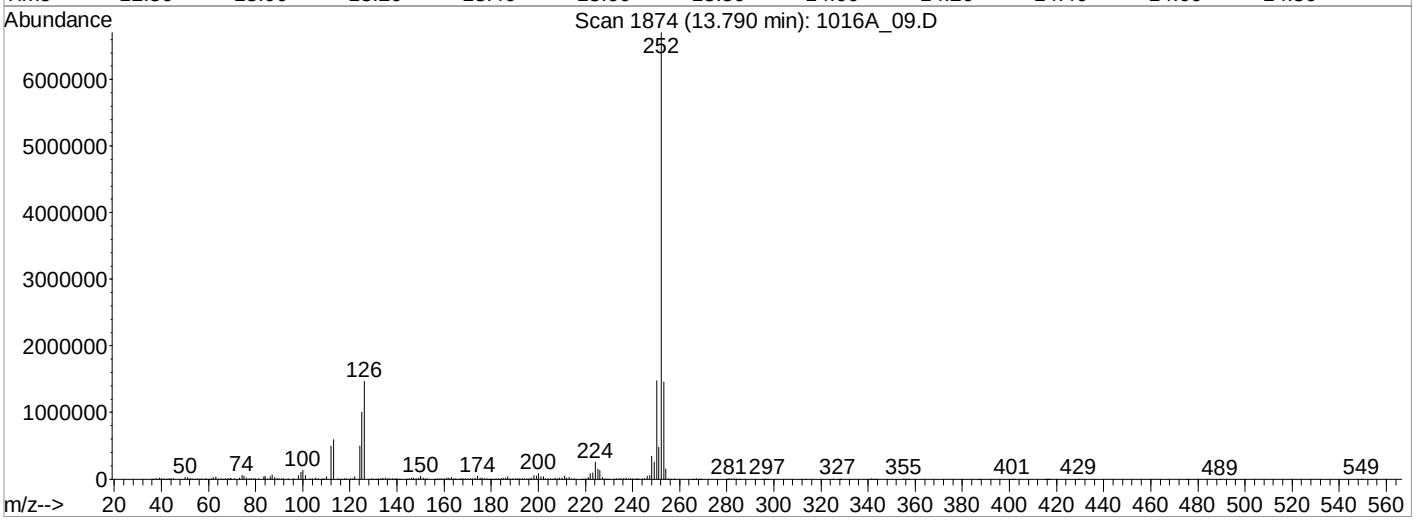


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:49:46 2014
Response via : Multiple Level Calibration





TIC: 1016A_09.D

(90) Benzo(k)fluoranthene (MT)

13.79min (+0.012) 76338.5754723 ppb

Qvalue = 97

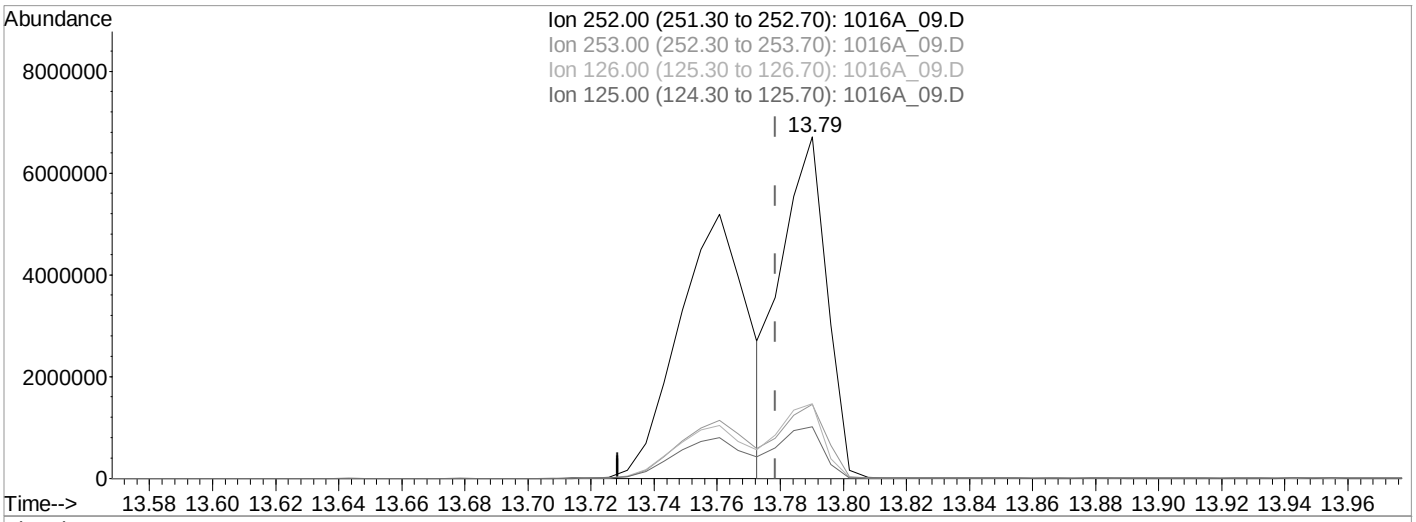
response 14304854

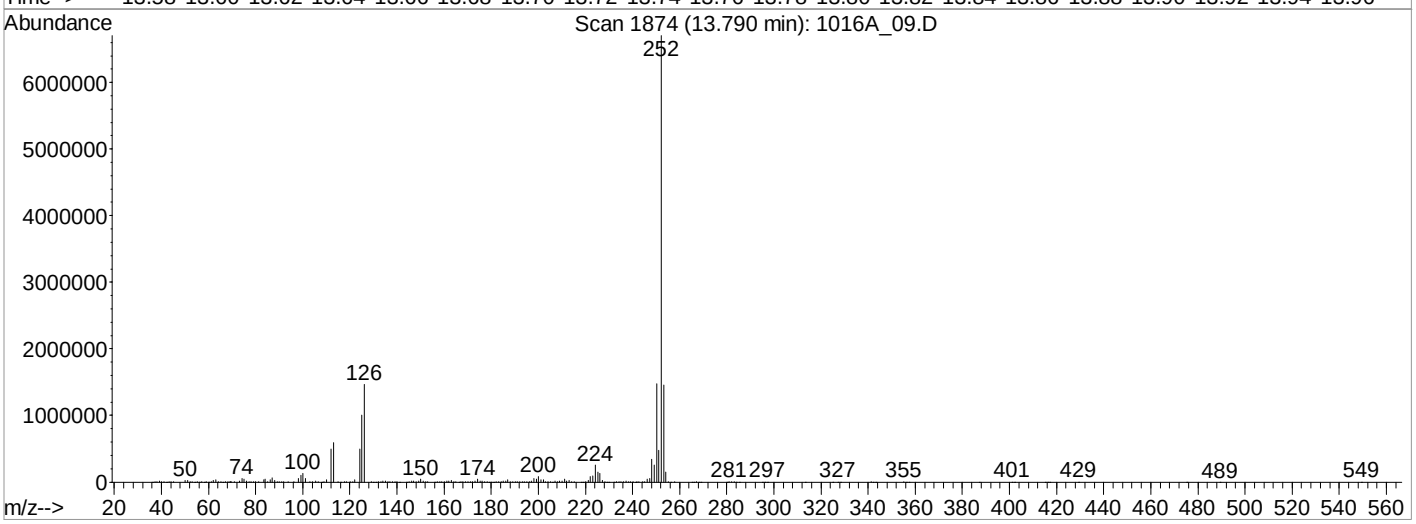
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.69
126.00	19.90	21.85
125.00	13.60	15.04

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:49:46 2014
Response via : Multiple Level Calibration





TIC: 1016A_09.D

(90) Benzo(k)fluoranthene (MT)

13.79min (+0.012) 35767.1302592 ppb m

response 6702294

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.70
126.00	19.90	21.85
125.00	13.60	15.04

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	171245	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	730746	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	454495	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	826159	8000.00 ppb	0.00
78) Chrysene-d12	12.68	240	983276	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1119981	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.00	112	1520137	50552.6046529 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 252763.02%#		
7) Phenol-d5	4.73	99	1832972	49803.9191563 ppb	0.01
Spiked Amount 20.000	Range 10 - 63		Recovery = 249019.60%#		
23) Nitrobenzene-d5	5.61	82	1762414	48486.8794871 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 484868.79%#		
44) 2-Fluorobiphenyl	7.47	172	3784322	48063.7262624 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 480637.26%#		
67) 2,4,6-Tribromophenol	9.05	330	493845	65287.1503091 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 326435.75%#		
81) p-Terphenyl-d14	11.52	244	5744267	45773.0888941 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 457730.89%#		

Target Compounds					Qvalue
2) Pyridine	2.97	79	2416408	40737.7590994 ppb	100
3) N-Nitrosodimethylamine	2.96	42	1217929	37125.6450426 ppb	98
5) Aniline	4.79	66	886671	48271.3140196 ppb	99
6) bis(2-Chloroethyl)ether	4.83	63	1219167	48123.4198368 ppb	98
8) Phenol	4.74	94	1852092	48212.8576279 ppb	99
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.89	128	1635105	49813.9557115 ppb	99
11) n-Decane	4.91	41	897884	44991.2024549 ppb #	99
12) 1,3-Dichlorobenzene	5.03	146	1756497	47515.3967470 ppb	99
13) 1,4-Dichlorobenzene	5.09	146	1782389	46814.2113942 ppb	97
14) Benzyl Alcohol	5.20	79	1328613	45480.2705807 ppb	99
15) 1,2-Dichlorobenzene	5.24	146	1724808	49118.0079645 ppb	98
16) bis(2-Chloroisopropyl)ethe	5.32	121	499597	43724.7330683 ppb	98
17) 2-Methylphenol	5.29	108	1444418	48430.9158388 ppb	99
18) Hexachloroethane	5.56	117	788320	50134.4425239 ppb	96
19) N-Nitrosodi-n-propylamine	5.46	70	1175195	43536.7108432 ppb	96
20) 3&4-Methyl phenol	5.45	107	1663654	48918.1213858 ppb	95
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.63	77	1744357	50981.2765254 ppb	96
25) Isophorone	5.86	82	3012485	48011.9637078 ppb	100
26) 2-Nitrophenol	5.94	139	935842	56805.3001784 ppb	97
27) 2,4-Dimethylphenol	5.97	107	1603935	48378.5874416 ppb	100
28) bis(2-Chlorethoxy)methane	6.07	93	1959881	47691.5767553 ppb	99
29) 2,4-Dichlorophenol	6.18	162	1388340	51094.4178357 ppb	98
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	1493917	47727.9073106 ppb	98
32) Naphthalene	6.36	128	4979773	42465.2747394 ppb	100
33) 4-Chloroaniline	6.40	65	644082	44813.4789422 ppb	99
34) Hexachloro-1,3-butadiene	6.47	225	830893	46755.0091519 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.90	107	1561163	47862.4211974 ppb	99
37) 2-Methylnaphthalene	7.08	142	3600759	47729.9947666 ppb	99
38) 1-Methylnaphthalene	7.19	142	3365462	48070.0195187 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

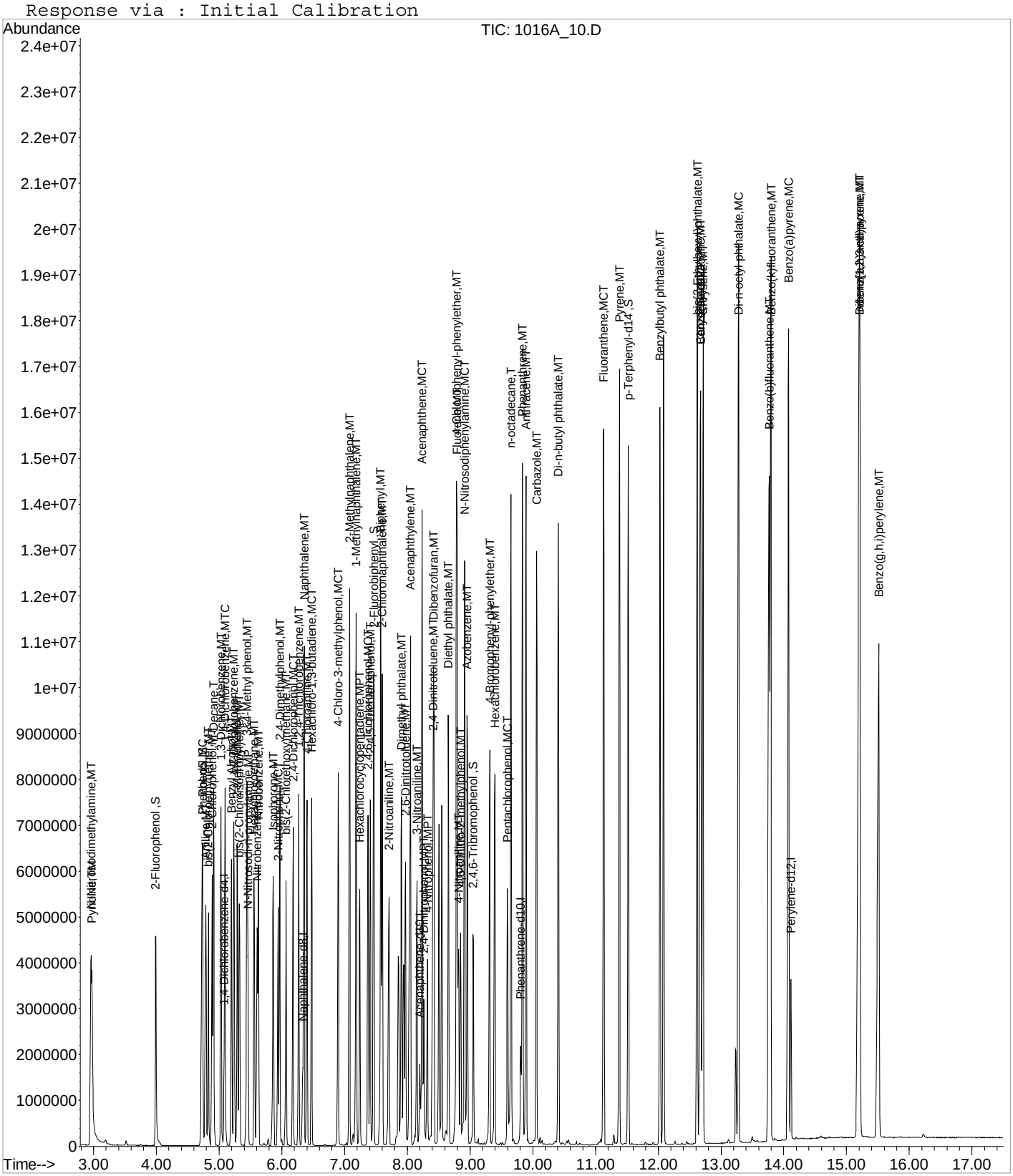
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	935809	94046.8073420 ppb		99
42)	2,4,6-Trichlorophenol	7.37	196	1032863	62301.1788584 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	1089520	58452.5342295 ppb		95
45)	Biphenyl	7.57	154	4246409	49245.0337855 ppb		99
46)	2-Chloronaphthalene	7.60	162	3377971	49370.1709310 ppb		99
47)	2-Nitroaniline	7.71	138	1211707	54256.6284883 ppb		99
48)	Acenaphthylene	8.05	152	5511561	48759.2141120 ppb		99
49)	Dimethyl phthalate	7.91	163	3874643	49886.1873915 ppb		99
50)	2,6-Dinitrotoluene	7.97	165	919587	57908.3083818 ppb		93
51)	3-Nitroaniline	8.16	138	1063578	60929.3083718 ppb		96
52)	Acenaphthene	8.24	153	3512500	49103.0596048 ppb		99
53)	2,4-Dinitrophenol	8.27	184	464406	91321.0851083 ppb	#	82
54)	Dibenzofuran	8.42	168	4822168	47962.1824610 ppb		99
55)	2,4-Dinitrotoluene	8.41	165	1271665	62273.5975533 ppb		92
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.33	139	830592	75646.3744227 ppb		95
58)	Fluorene	8.80	166	4030512	48698.1386037 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	1742055	48681.5727405 ppb		95
60)	Diethyl phthalate	8.65	149	4328718	51221.8621244 ppb		99
61)	4-Nitroaniline	8.82	138	1123573	59949.1307875 ppb		97
62)	Azobenzene	8.95	77	4221311	46940.6828880 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.85	198	672612	102787.7391169 ppb		91
66)	N-Nitrosodiphenylamine	8.91	169	3504226	49710.6908002 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	1061114	48170.7873039 ppb		95
69)	Hexachlorobenzene	9.40	284	1173564	46739.3591634 ppb		98
70)	n-octadecane	9.65	55	706895	40362.5886893 ppb		99
71)	Pentachlorophenol	9.59	266	663749	102099.7963971 ppb		94
72)	Phenanthrene	9.84	178	6145816	49492.8875170 ppb		99
73)	Anthracene	9.89	178	6201357	49292.3144823 ppb		100
74)	Carbazole	10.06	167	6135397	49696.3035202 ppb		99
75)	Di-n-butyl phthalate	10.41	149	8165024	48222.3993415 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.13	202	7198588	49157.1872966 ppb		100
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.38	202	7578476	46669.0918320 ppb		99
82)	Benzylbutyl phthalate	12.03	149	4187649	47536.4059359 ppb		95
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.67	228	8058673	47175.2209404 ppb		99
85)	Chrysene	12.71	228	7107134	46678.5416929 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.62	149	6275722	43174.1317520 ppb		99
87)	Di-n-octyl phthalate	13.27	149	10415735	43437.4771163 ppb		97
89)	Benzo(b)fluoranthene	13.77	252	10093322	58130.0374982 ppb		99
90)	Benzo(k)fluoranthene	13.80	252	7458856m	43141.0222980 ppb		
91)	Benzo(a)pyrene	14.08	252	8657847	51320.2782254 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.21	276	9368832	49607.8036244 ppb		94
93)	Dibenz(a,h)anthracene	15.21	278	7904202	51159.6157613 ppb		94
94)	Benzo(g,h,i)perylene	15.52	276	7661270	48666.7933974 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:52 2014 Quant Results File: S804J16N.RES

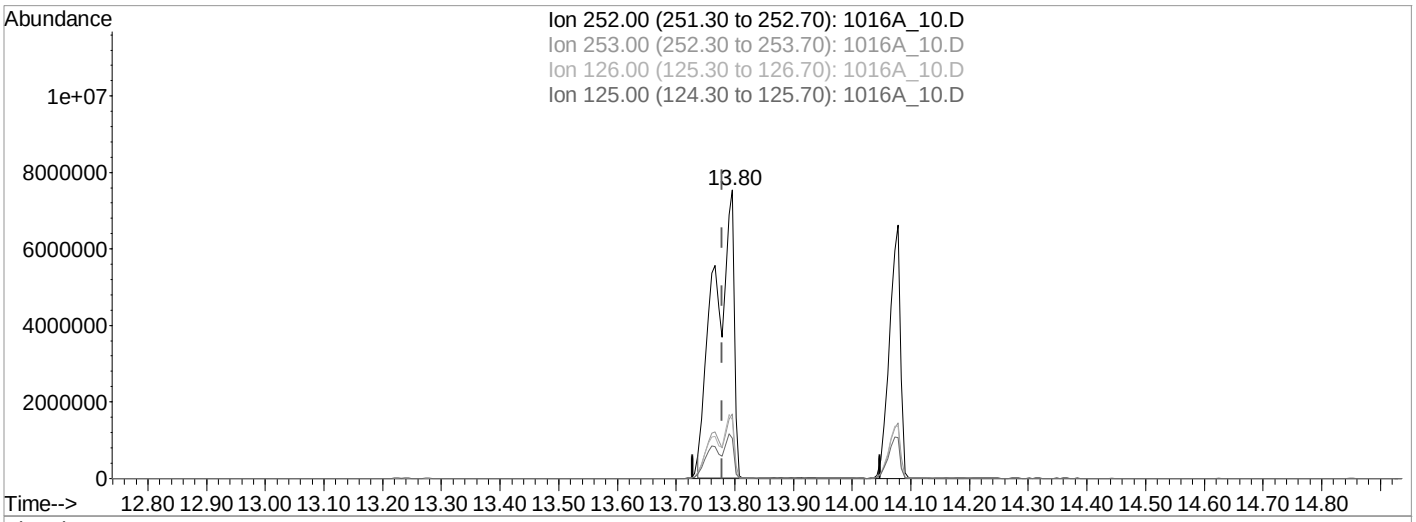
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:51:24 2014
Response via : Initial Calibration

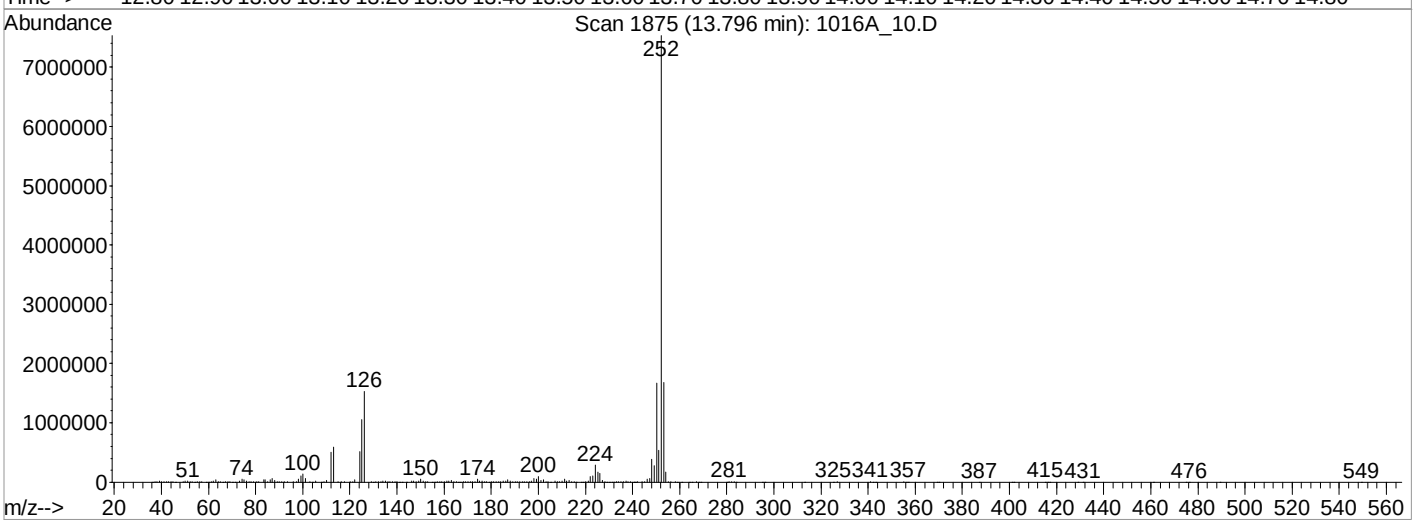


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:51:24 2014
Response via : Multiple Level Calibration





TIC: 1016A_10.D

(90) Benzo(k)fluoranthene (MT)

13.80min (+0.018) 100005.9262308 ppb

Qvalue = 99

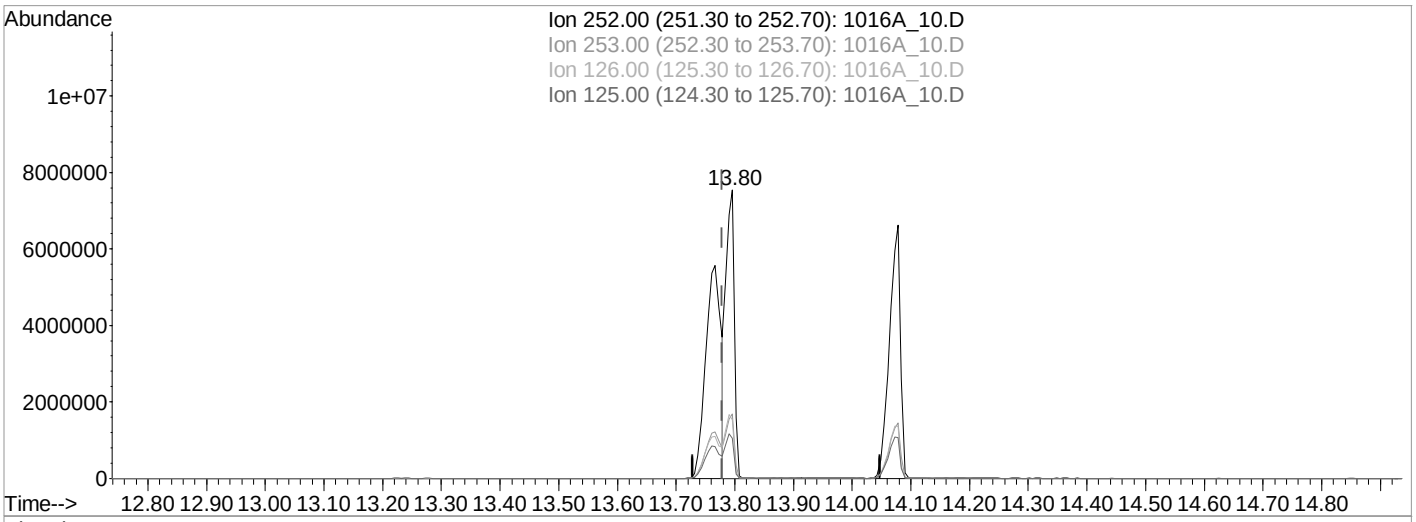
response 17290499

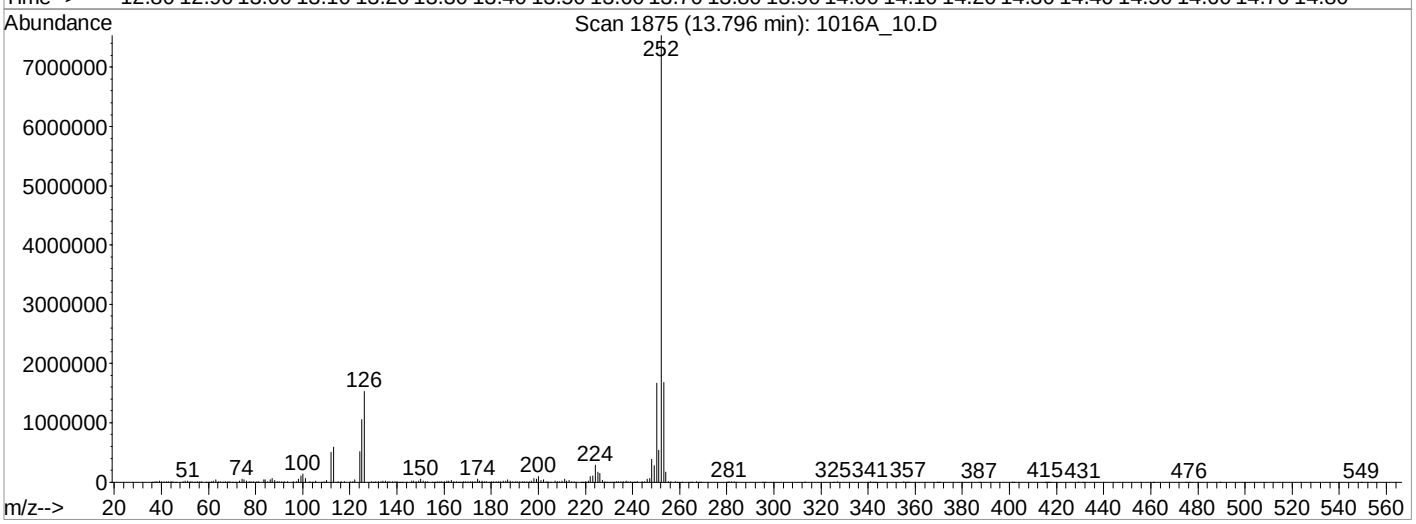
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	22.30
126.00	19.90	20.33
125.00	13.60	13.91

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:52 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:51:24 2014
Response via : Multiple Level Calibration





TIC: 1016A_10.D

(90) Benzo(k)fluoranthene (MT)

13.80min (+0.018) 43141.0222980 ppb m

response 7458856

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	22.31
126.00	19.90	20.33
125.00	13.60	13.92

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	196616	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	859481	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	544735	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	942650	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1045398	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1222649	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol		0.00	112	0d	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 74		Recovery =	0.00%#
7) Phenol-d5		0.00	99	0d	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. 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	4.69	105	208724	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. 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	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	521014	10000.0000000 ppb	100
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	6.05	105	157857m	9893.7030328 ppb	
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	6.74	113	118725	10000.0000000 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. 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\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

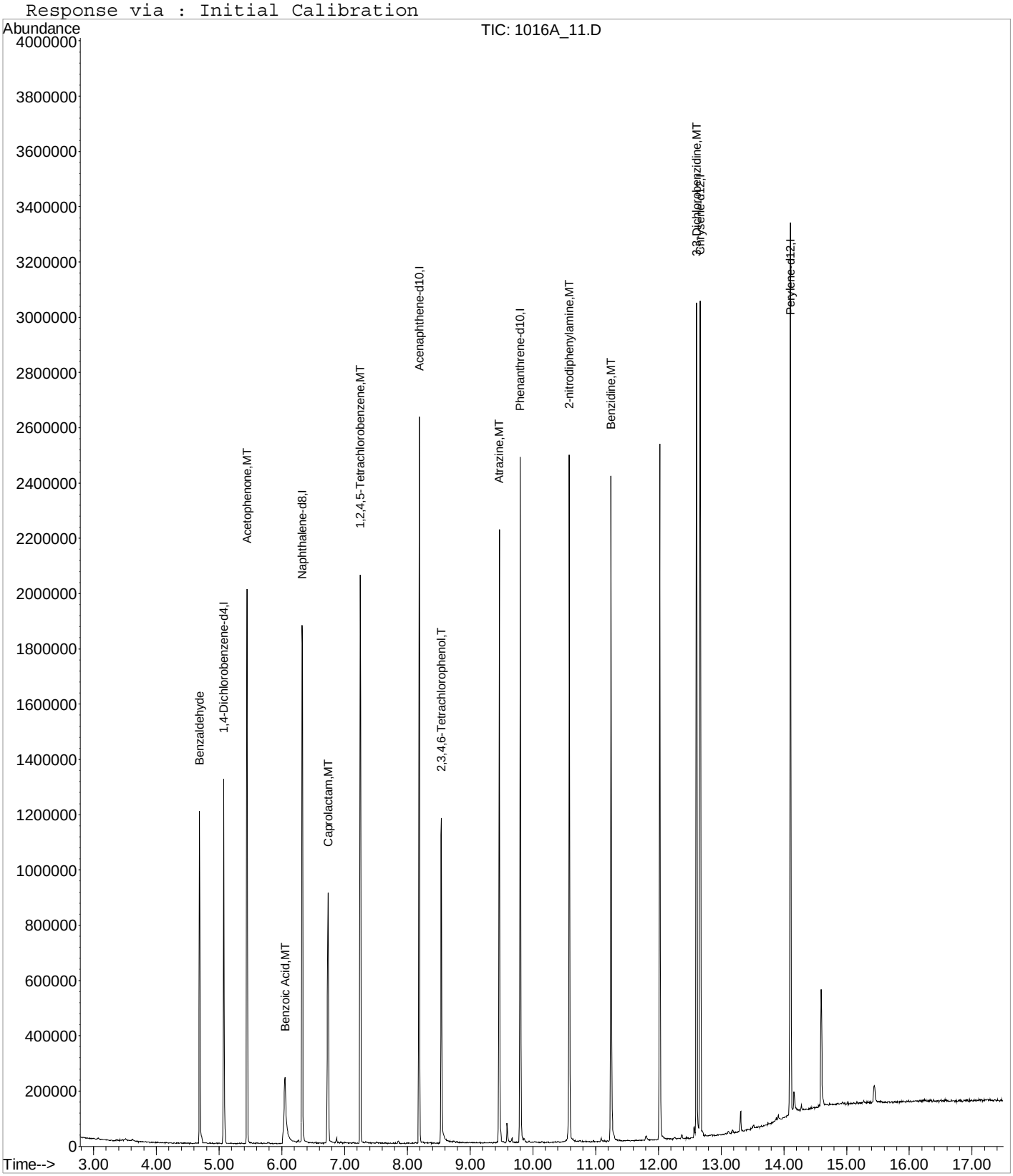
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	355440	10000.0000000 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D. d	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d	
45)	Biphenyl	0.00	154	0	N.D. d	
46)	2-Chloronaphthalene	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. 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. d	
56)	2,3,4,6-Tetrachlorophenol	8.54	232	157363	10032.0028560 ppb	100
57)	4-Nitrophenol	0.00	139	0	N.D. 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. d	
61)	4-Nitroaniline	0.00	138	0	N.D. d	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.47	200	225829	10000.0000000 ppb	100
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D. 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	10.58	167	339901m	10000.0000000 ppb	
77)	Fluoranthene	0.00	202	0	N.D. d	
79)	Benzidine	11.25	184	909817	10000.0000000 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	12.61	252	630835	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\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: S804J16N.RES

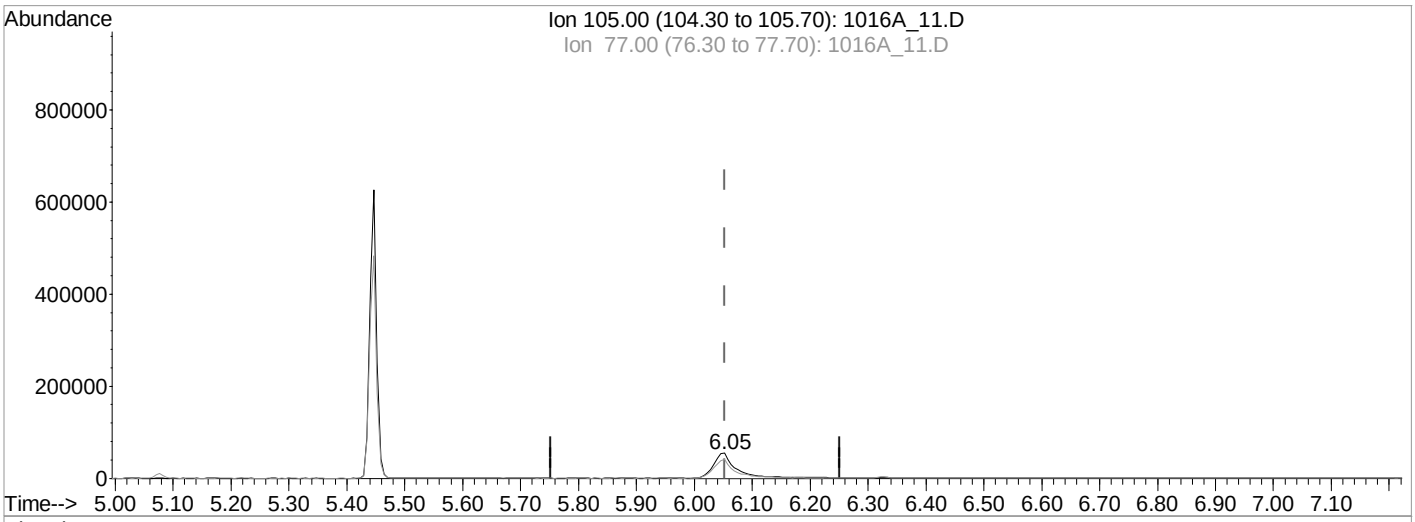
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Initial Calibration

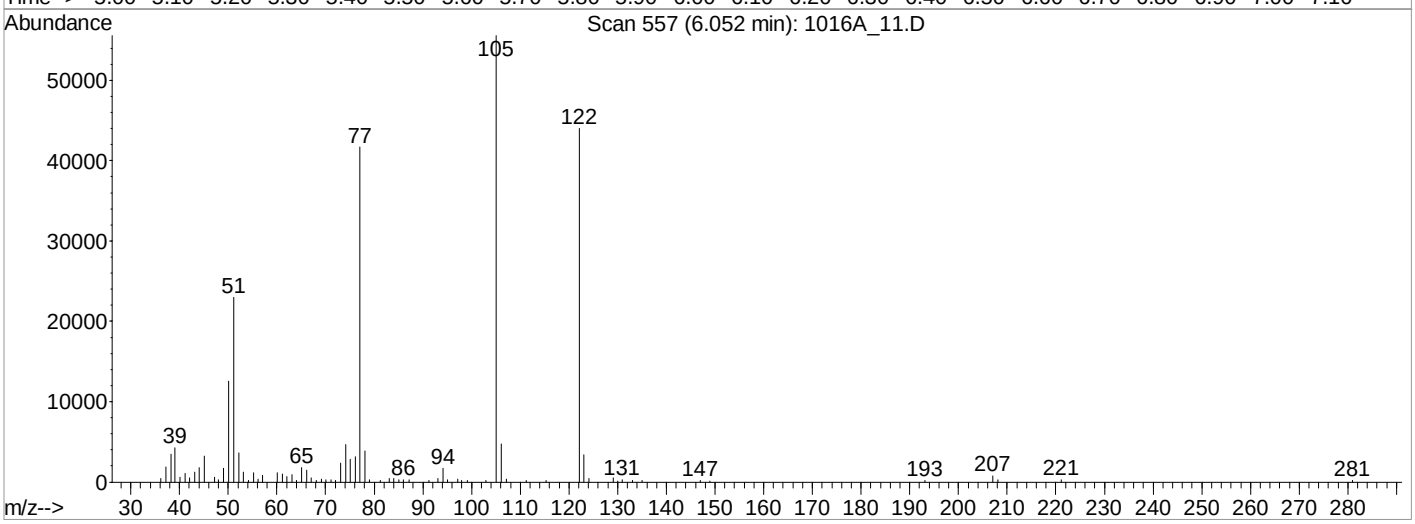


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:54 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Single Level Calibration





TIC: 1016A_11.D

(30) Benzoic Acid (MT)

6.05min (0.000) 9677.2232424 ppb

Qvalue = 90

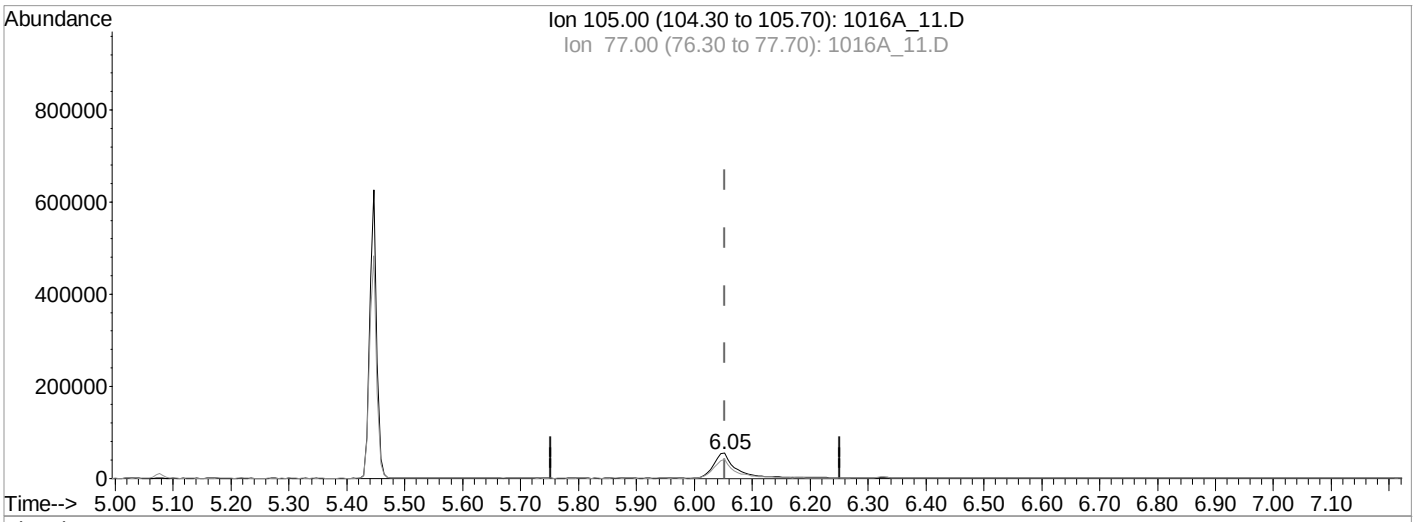
response 154403

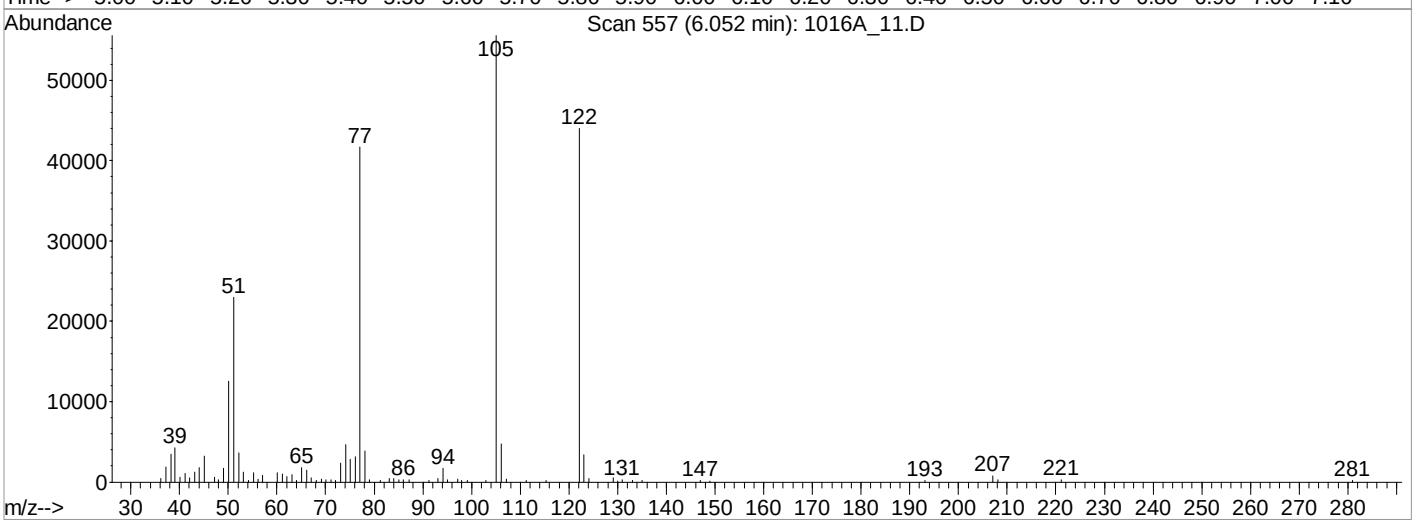
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	73.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Single Level Calibration





TIC: 1016A_11.D

(30) Benzoic Acid (MT)

6.05min (0.000) 9893.7030328 ppb m

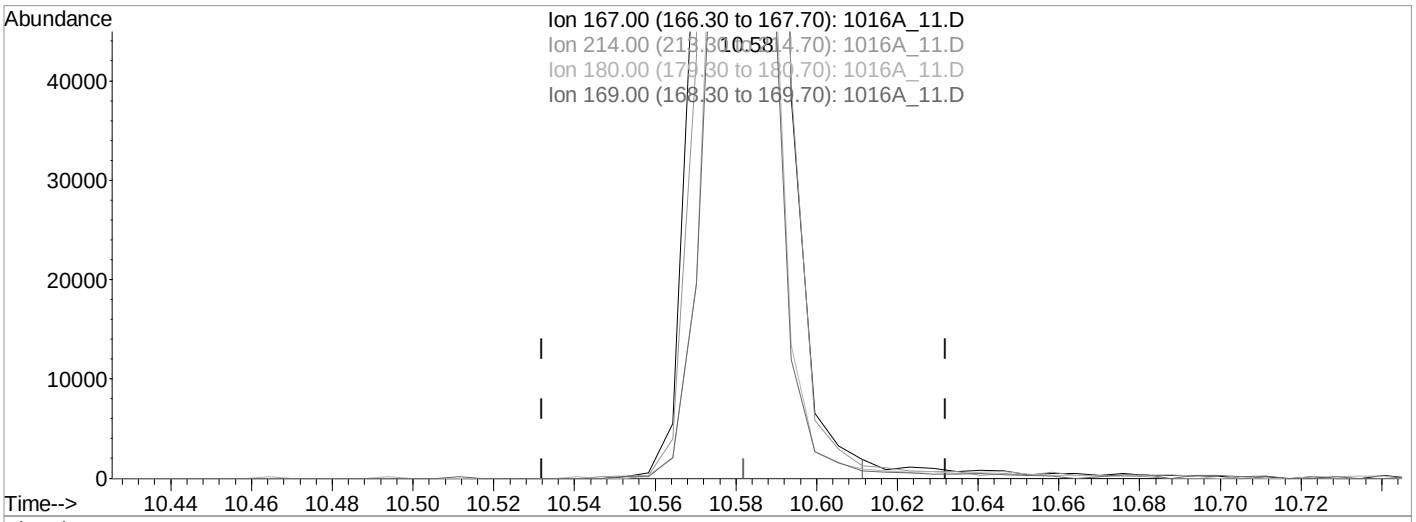
response 157857

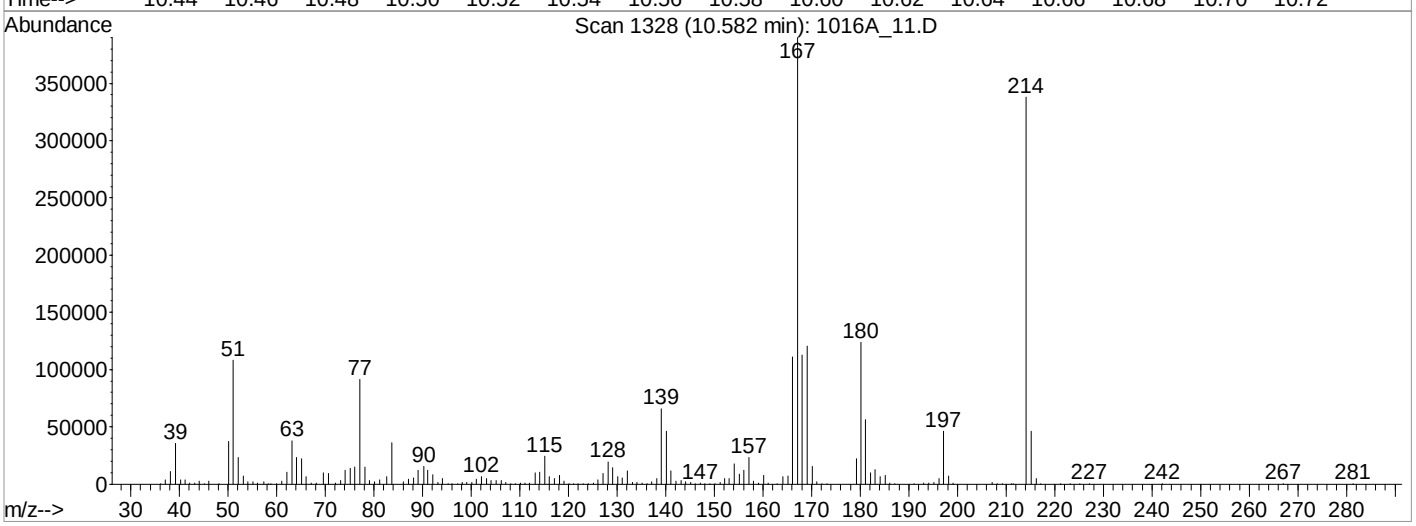
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	72.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Single Level Calibration





TIC: 1016A_11.D

(76) 2-nitrodiphenylamine (MT)

10.58min (0.000) 9992.4095545 ppb

Qvalue = 100

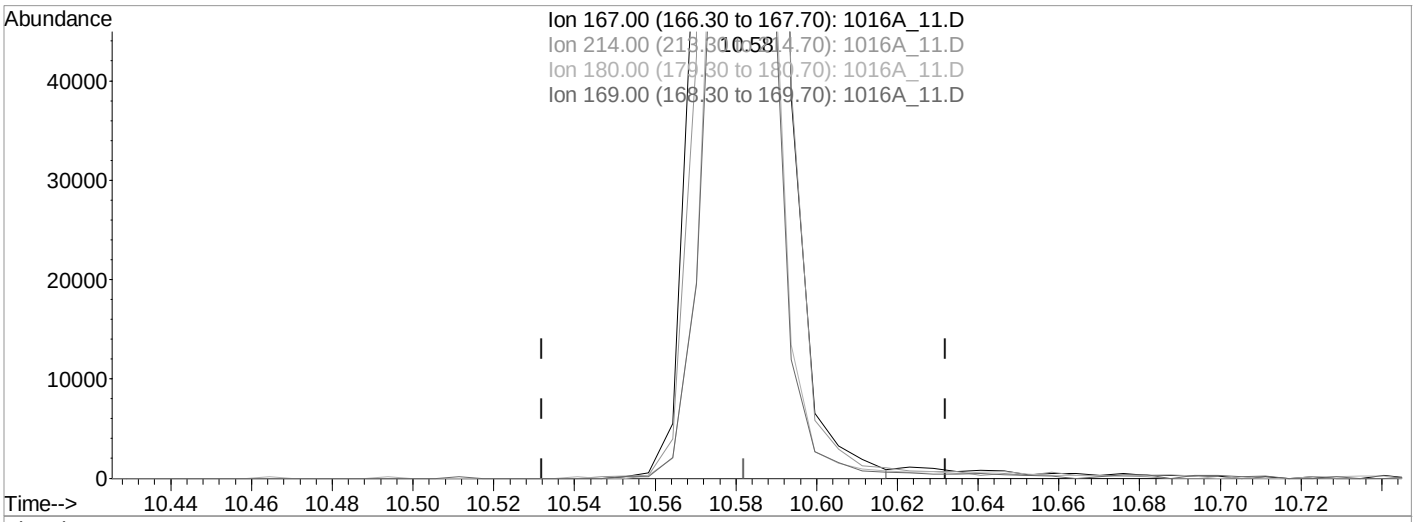
response 339643

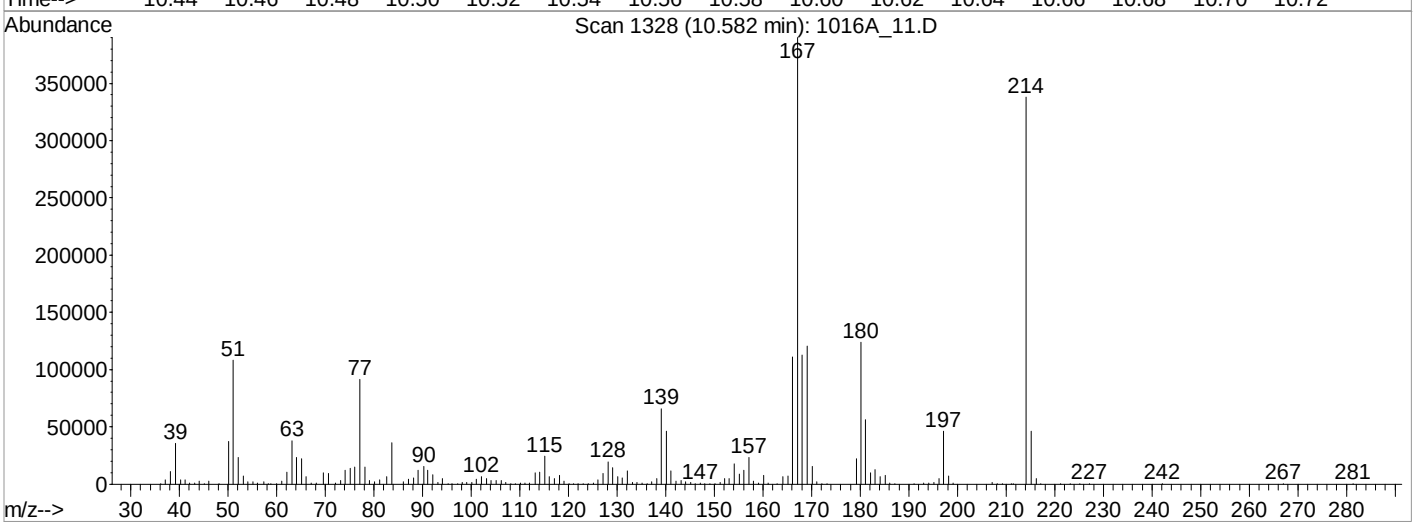
Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.89#
180.00	0.00	32.43#
169.00	0.00	31.14#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Single Level Calibration





TIC: 1016A_11.D

(76) 2-nitrodiphenylamine (MT)

10.58min (0.000) 10000.0000000 ppb m

response 339901

Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.83#
180.00	0.00	32.41#
169.00	0.00	31.11#

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 12.D Vial: 16
Acq On : 16 Oct 2014 8:17 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:57 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	209637	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	917583	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	589947	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1019817	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1143511	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1257652	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		0.00	99	0d	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	4.69	105	4529	203.5077028 ppb #	82
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. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	10713	192.8468867 ppb #	81
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. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D. d	
30) Benzoic Acid	6.05	105	158	9.2756218 ppb	75
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	6.72	113	2098	165.5214291 ppb #	65
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. 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\101614A\1016A 12.D Vial: 16
Acq On : 16 Oct 2014 8:17 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:57 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

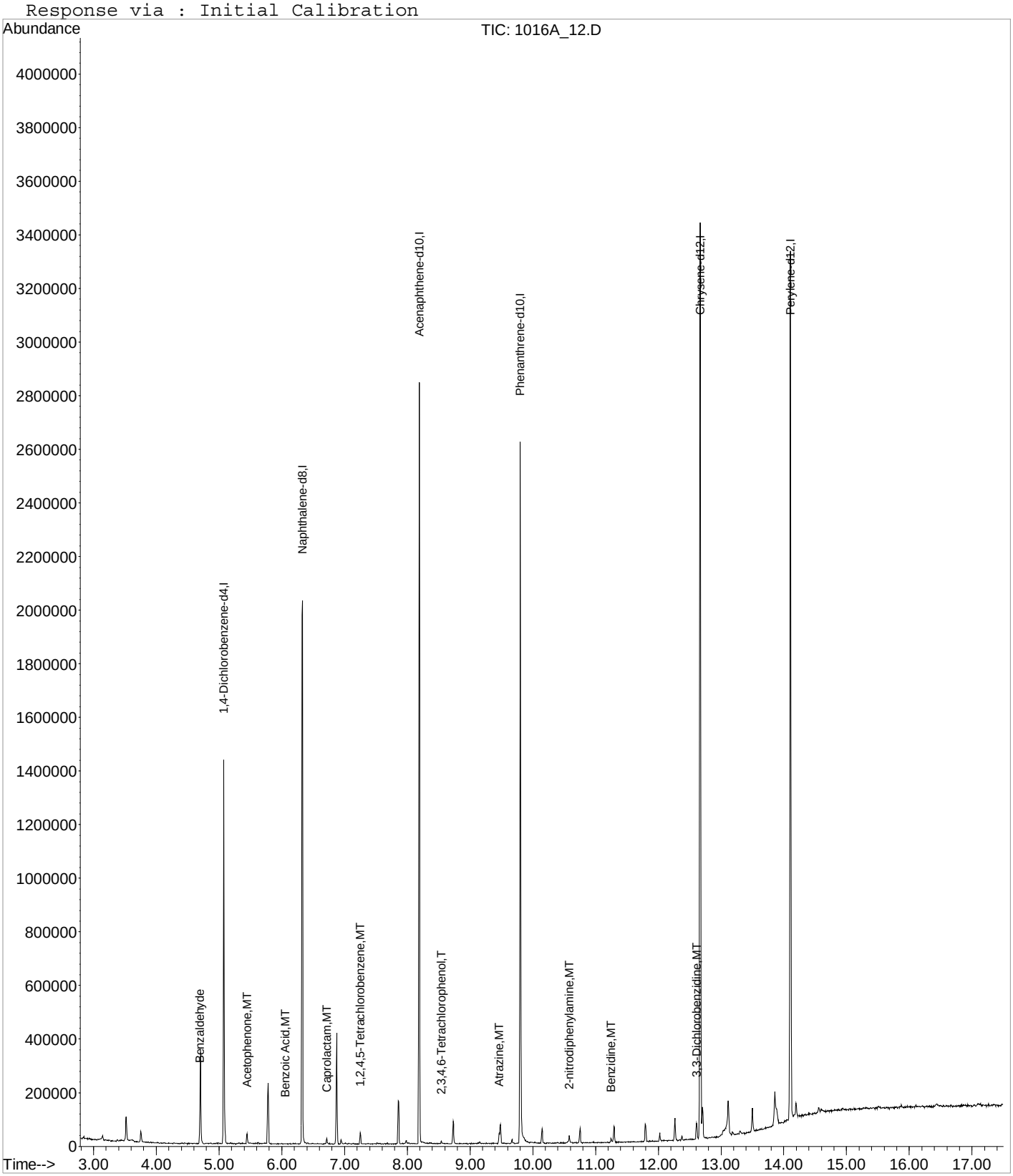
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	6983	184.0206937 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D. d		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D. 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. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	1587	93.4187885 ppb		96
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. d		
61)	4-Nitroaniline	0.00	138	0	N.D. d		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	4146	169.5203614 ppb		99
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. 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. 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	10.58	167	4565	124.1413787 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	7829	78.6671767 ppb		98
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	11148	161.5557789 ppb		92
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\101614A\1016A 12.D Vial: 16
Acq On : 16 Oct 2014 8:17 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:57 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:56:21 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:59 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	199877	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	873307	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	554359	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	919426	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1003977	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1134339	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery	= 0.00%#	
7) Phenol-d5	0.00	99	0d	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	4.69	105	18776	884.8847725 ppb	94
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. 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. 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. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	50160	947.0309417 ppb #	92
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. 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	6.03	105	3382	208.6113665 ppb	86
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	6.72	113	10821	897.0043682 ppb #	81
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. 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\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:59 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

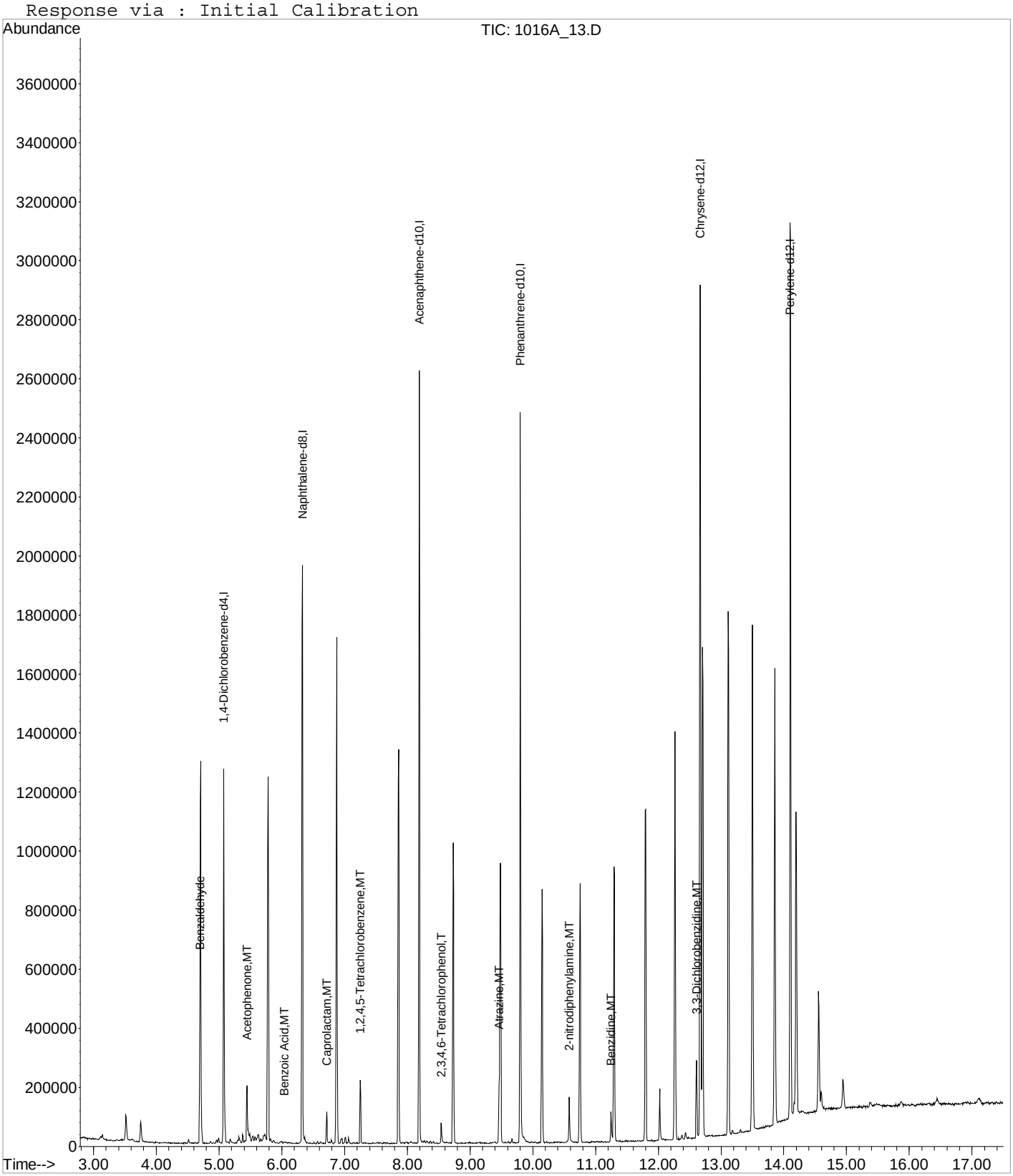
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	36175	1001.6398137 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. 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. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. 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. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	10158m	636.3373378 ppb		
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	9.46	200	20385	887.0031904 ppb		95
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. d		
69)	Hexachlorobenzene	0.00	284	0	N.D. 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	10.58	167	23214	700.2147080 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	49741	569.2700897 ppb		98
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	56823	937.9210417 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\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:59 2014 Quant Results File: S804J16N.RES

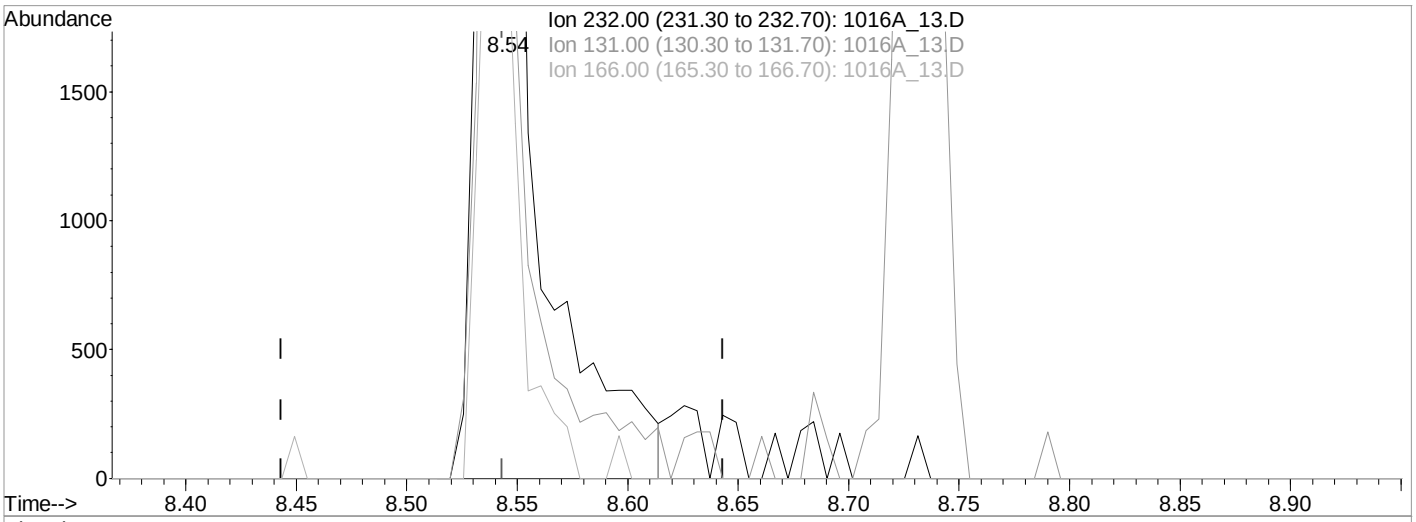
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:58:02 2014
Response via : Initial Calibration

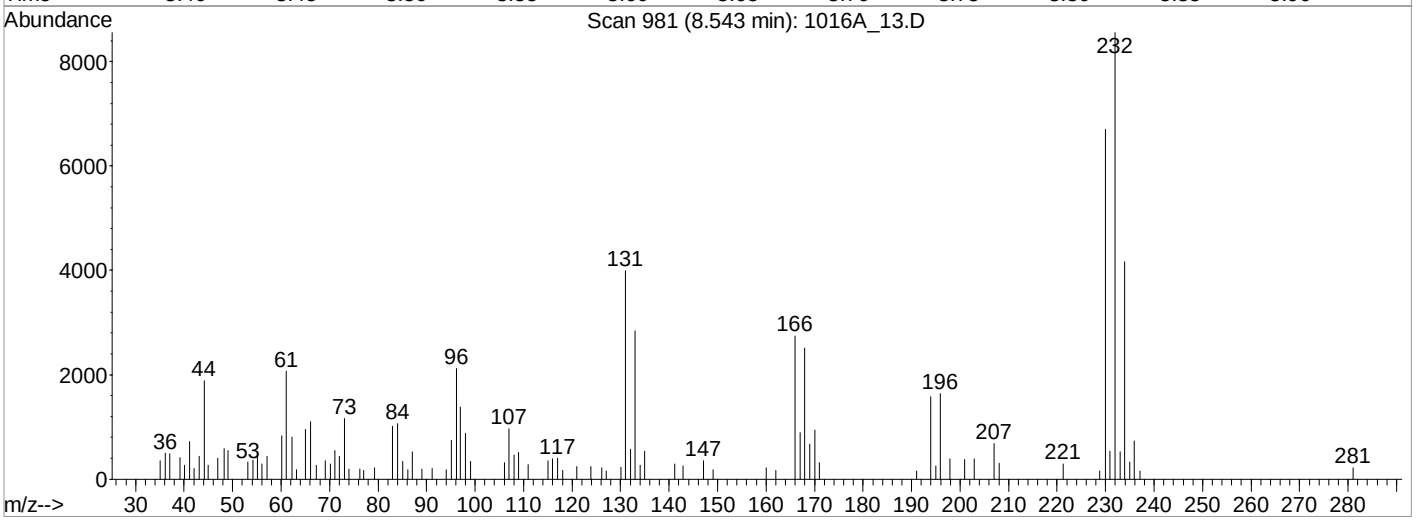


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:58 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:58:02 2014
Response via : Single Level Calibration





TIC: 1016A_13.D

(56) 2,3,4,6-Tetrachlorophenol (T)

8.54min (+0.000) 619.0476050 ppb

Qvalue = 98

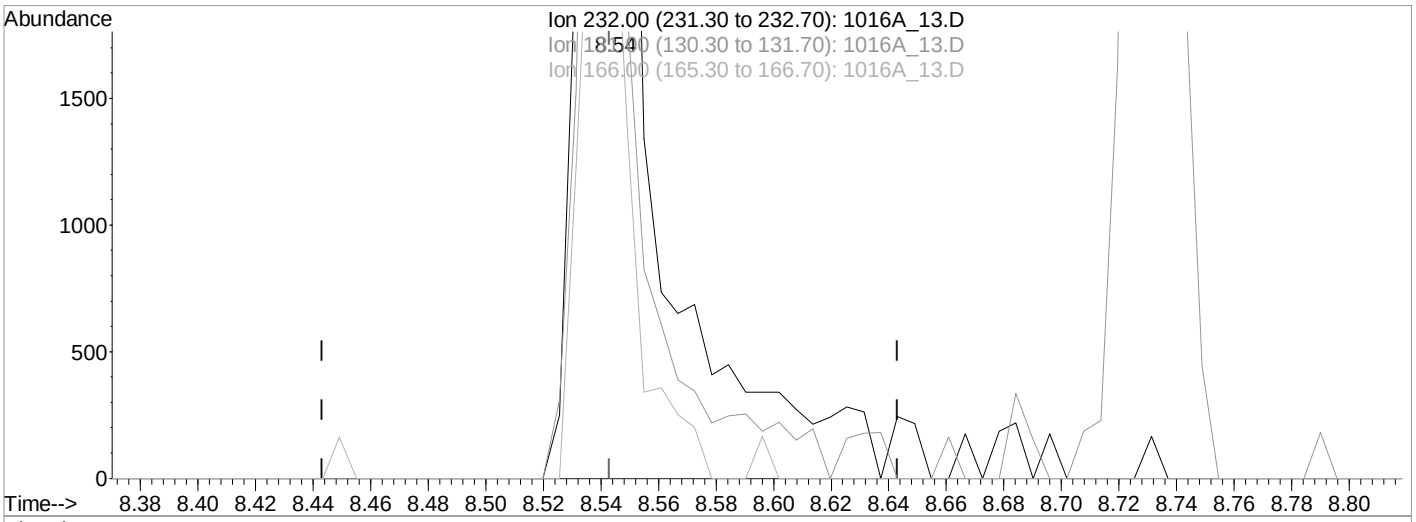
response 9882

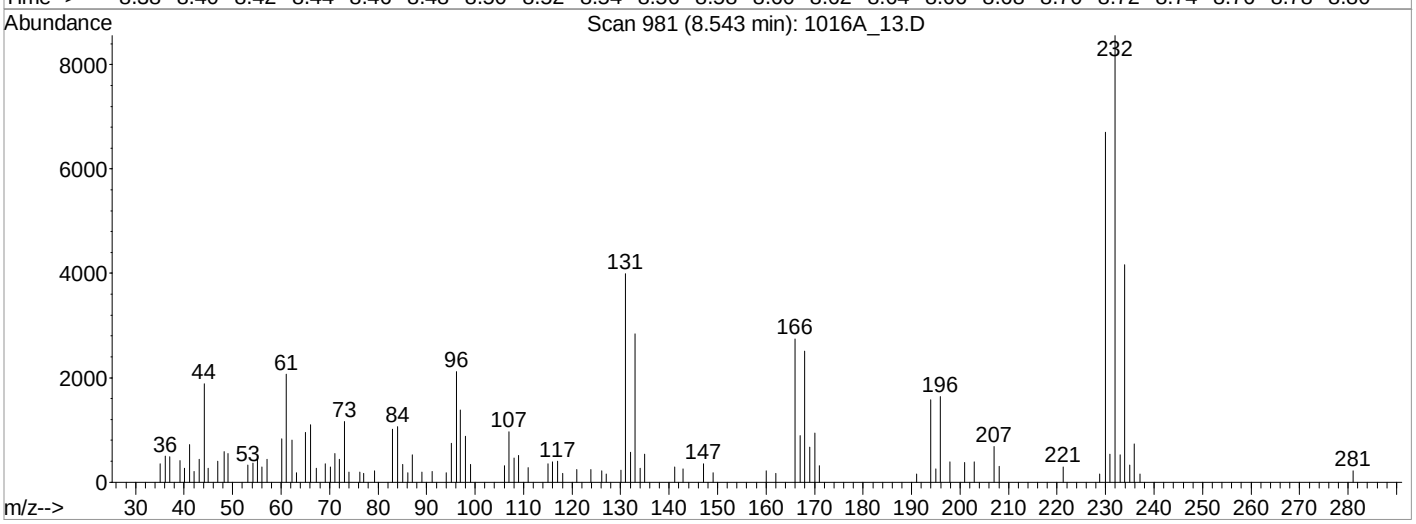
Ion	Exp%	Act%
232.00	100	100
131.00	46.90	46.65
166.00	29.20	32.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:59 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:58:02 2014
Response via : Single Level Calibration





TIC: 1016A_13.D

(56) 2,3,4,6-Tetrachlorophenol (T)

8.54min (+0.000) 636.3373378 ppb m

response 10158

Ion	Exp%	Act%
232.00	100	100
131.00	46.90	46.65
166.00	29.20	32.01
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:00 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	208854	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	920461	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	592768	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1017835	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1166590	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1308304	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery =	0.00%#	
7) Phenol-d5	0.00	99	0d	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	4.69	105	37704	1700.5566220 ppb	94
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. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	102996	1861.0027910 ppb #	94
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. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.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	6.04	105	12176	712.5749538 ppb	87
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	6.72	113	22685	1784.1340989 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. 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\101614A\1016A 14.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:00 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

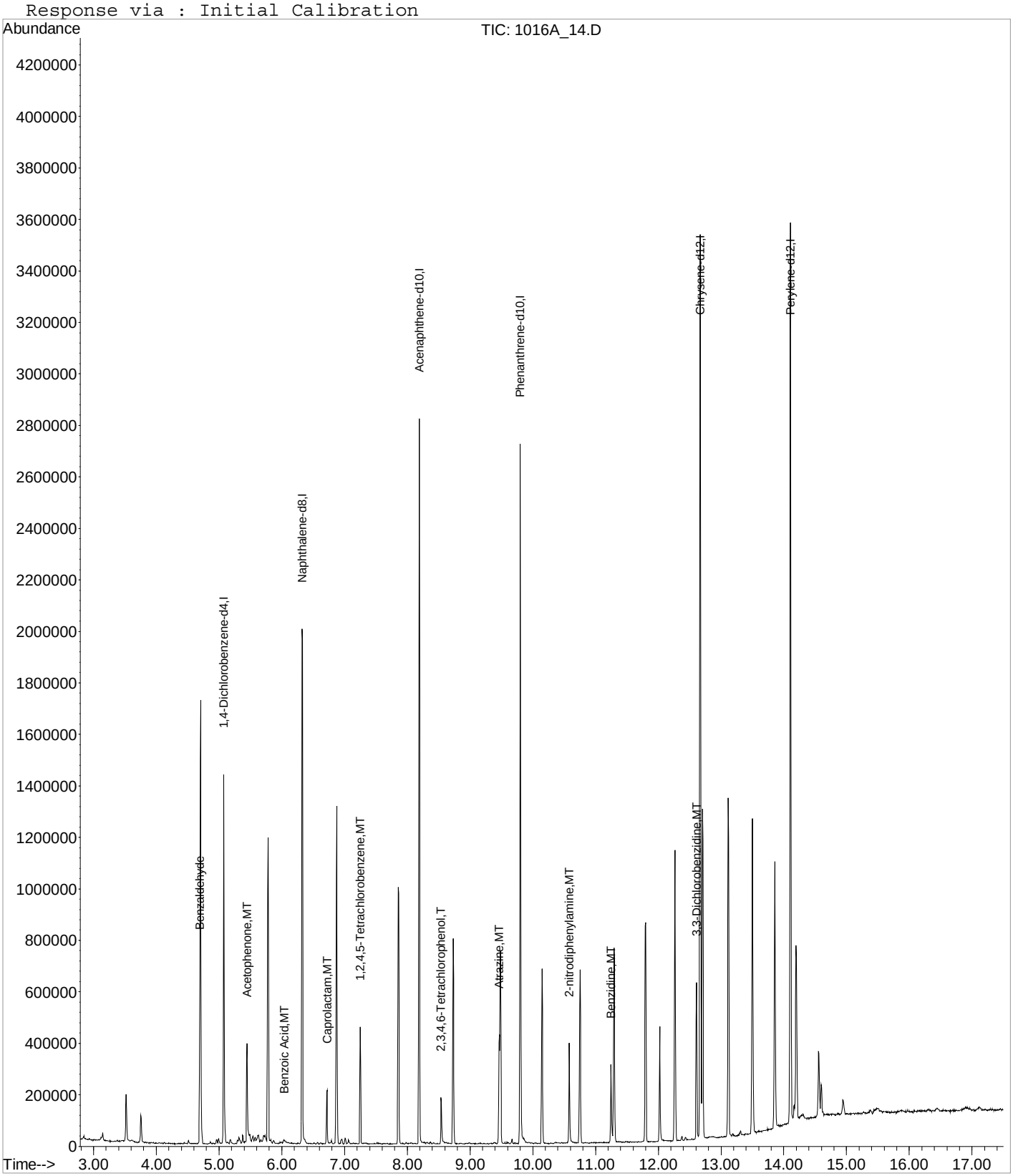
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	74238	1950.2525364 ppb		98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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. 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. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	25470	1492.1569126 ppb		97
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. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	43828	1783.4973613 ppb		97
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. 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	10.58	167	54582	1487.2024558 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	135881	1338.3450670 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	12.61	252	129299	1836.7193475 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.		
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\101614A\1016A 14.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:00 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:59:40 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 15.D Vial: 19
Acq On : 16 Oct 2014 9:22 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:02 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	194934	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	843615	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	527943	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	900226	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	999440	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1146673	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		0.00	99	0d	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	4.69	105	81444	3935.6635825 ppb	98
10) 2-Chlorophenol	0.00	128	0	N.D. 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. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	239908	4644.3677314 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. 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	6.03	105	42816	2733.9659703 ppb	86
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	6.73	113	52354	4492.6199126 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. 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\101614A\1016A 15.D Vial: 19
Acq On : 16 Oct 2014 9:22 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:02 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

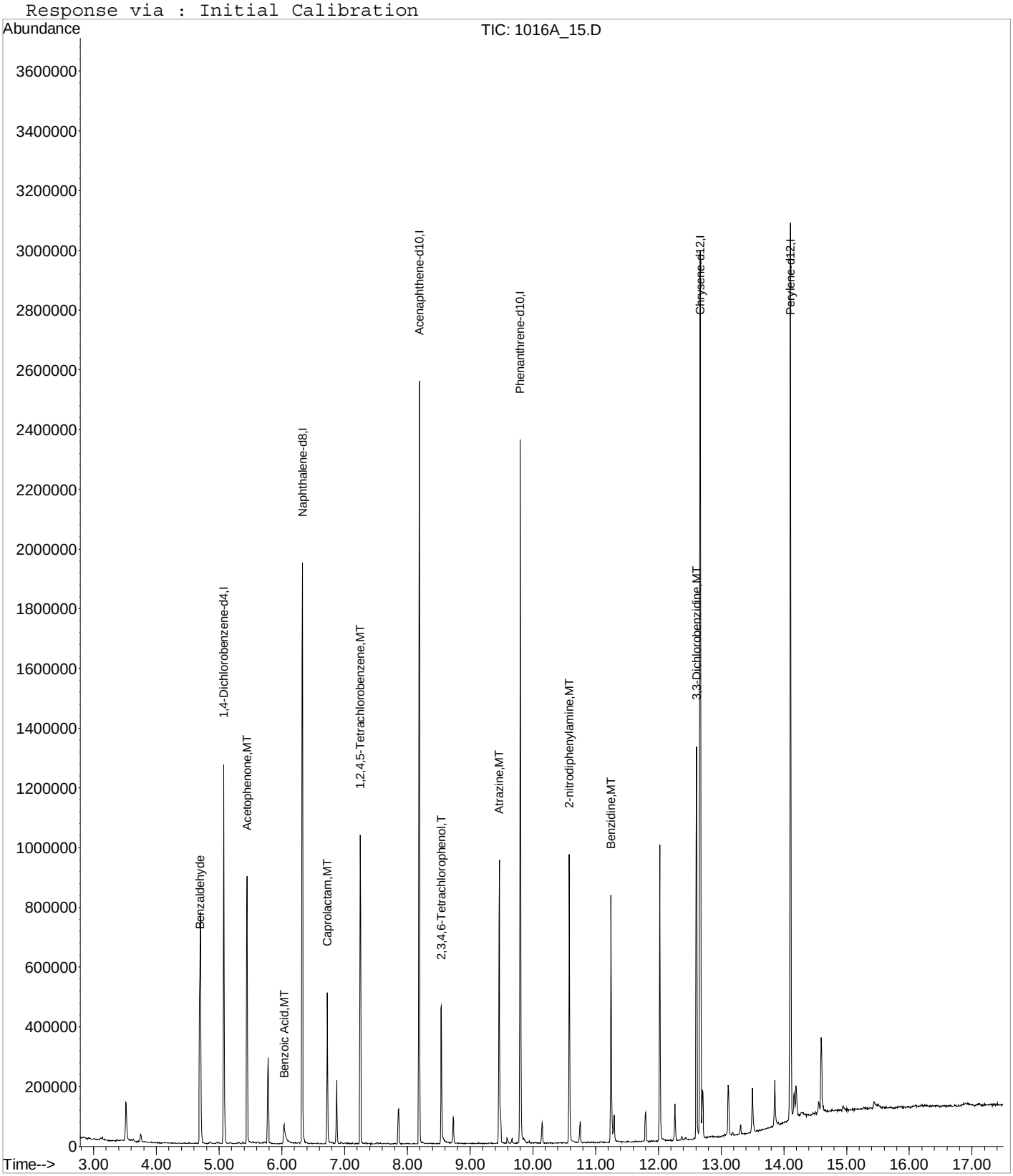
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	169116	4847.4170384 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. 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. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	62547	4114.2412009 ppb		97
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. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	101334	4629.9224731 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. 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	10.58	167	131591	4053.8965783 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	337340	3878.2761646 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	12.61	252	275380	4566.0593550 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. 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\101614A\1016A 15.D Vial: 19
Acq On : 16 Oct 2014 9:22 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:02 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:01:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 16.D Vial: 20
Acq On : 16 Oct 2014 9:44 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:03 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	217520	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	950535	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	618603	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1064878	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1181708	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1364891	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery =	0.00%#	
7) Phenol-d5	0.00	99	0d	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. 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	4.69	105	351604	15226.5348218 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. d	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D. d	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. 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. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	1028718	17847.0568735 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. 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	6.08	105	357307	20249.0530300 ppb	88
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	6.76	113	240734	18334.2615040 ppb	96
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. 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\101614A\1016A 16.D Vial: 20
Acq On : 16 Oct 2014 9:44 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:03 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

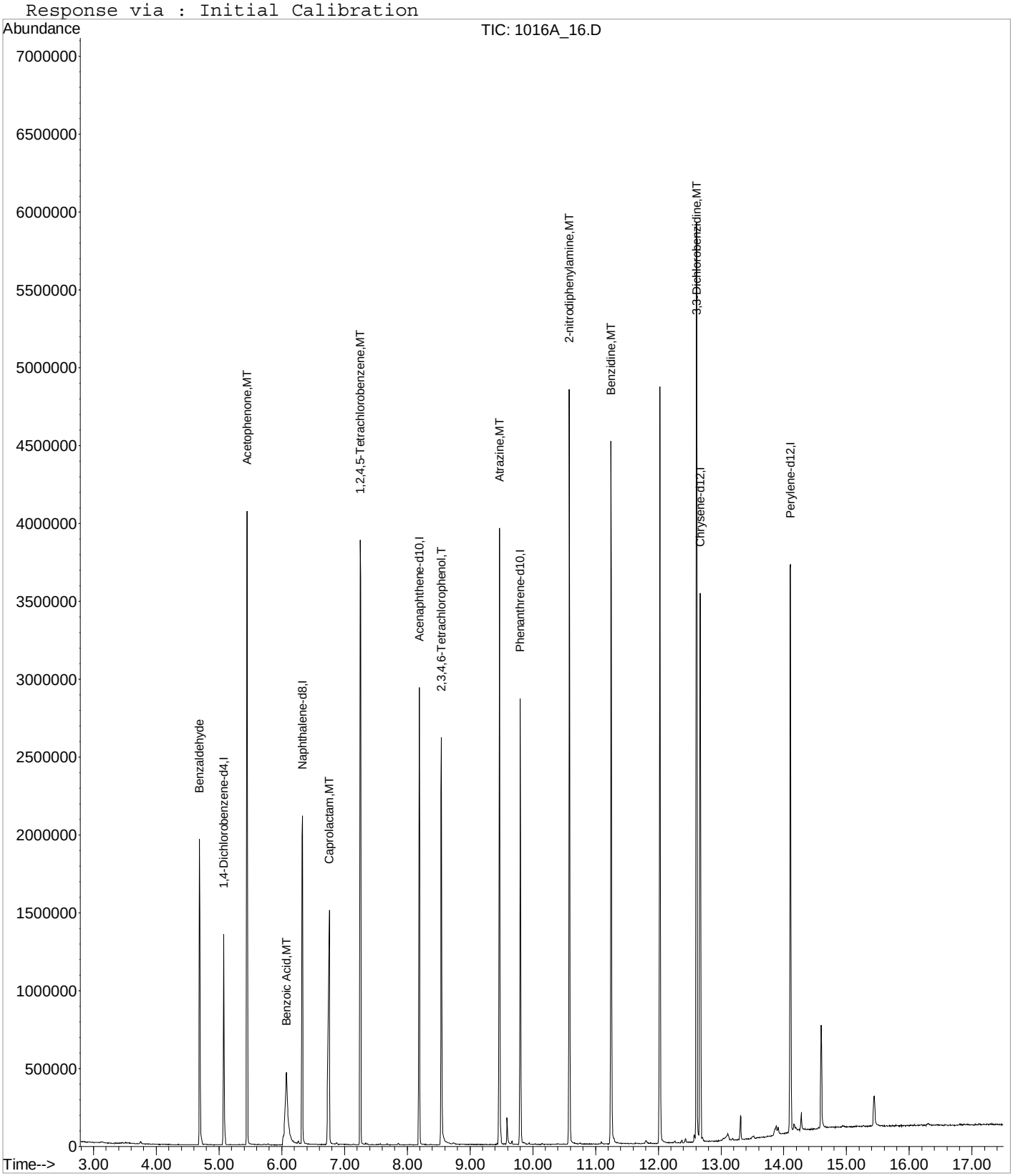
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	700944	17831.3896385 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D. d		
48)	Acenaphthylene	0.00	152	0	N.D. d		
49)	Dimethyl phthalate	0.00	163	0	N.D.		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. 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. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	324597	18222.2827293 ppb		95
57)	4-Nitrophenol	0.00	139	0	N.D. 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. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	460670	17963.1905884 ppb		99
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. 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	10.58	167	680022	17710.1050792 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	1810784	17606.9483520 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	12.61	252	1246291	17477.3332476 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\101614A\1016A 16.D Vial: 20
Acq On : 16 Oct 2014 9:44 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:03 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:03:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 17.D Vial: 21
Acq On : 16 Oct 2014 10:06 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:05 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	217403	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	946382	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	601490	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1042538	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1202165	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1320139	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		0.00	99	0d	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	4.69	105	751919	32580.0685487 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. 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. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	1606600	27887.6354796 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. 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. d	
30) Benzoic Acid	6.09	105	689494	39245.9933382 ppb	90
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	6.77	113	402022	30752.2892215 ppb	95
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. 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\101614A\1016A 17.D Vial: 21
Acq On : 16 Oct 2014 10:06 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:05 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

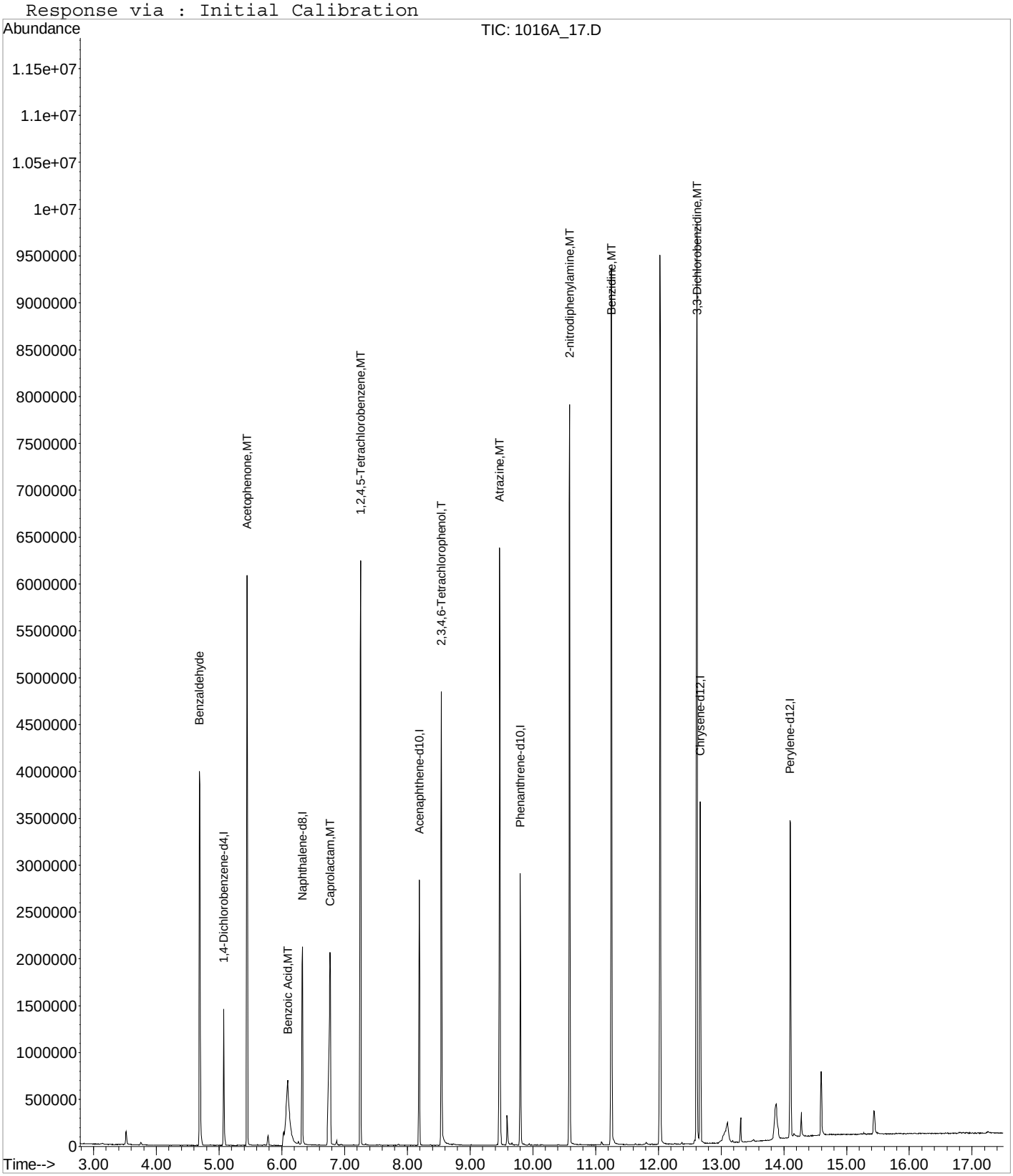
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1108222	28315.8938822 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. 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. 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. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	548255	31653.7006209 ppb		94
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. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	754239	30247.2671697 ppb		99
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. 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	10.59	167	1202822	31996.8701390 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	3618198	34582.4587054 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	12.61	252	2184838	30117.6474357 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. 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\101614A\1016A 17.D Vial: 21
Acq On : 16 Oct 2014 10:06 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:05 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:04:24 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	216234	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	930031	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	593235	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1014978	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1141682	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1340588	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		0.00	99	0d	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. 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	4.69	105	999721	43551.3177541 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. 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. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	2116013	36928.6824072 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. 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	6.11	105	999727m	57904.8982272 ppb	
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	6.78	113	525479	40902.7061507 ppb	93
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. 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\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

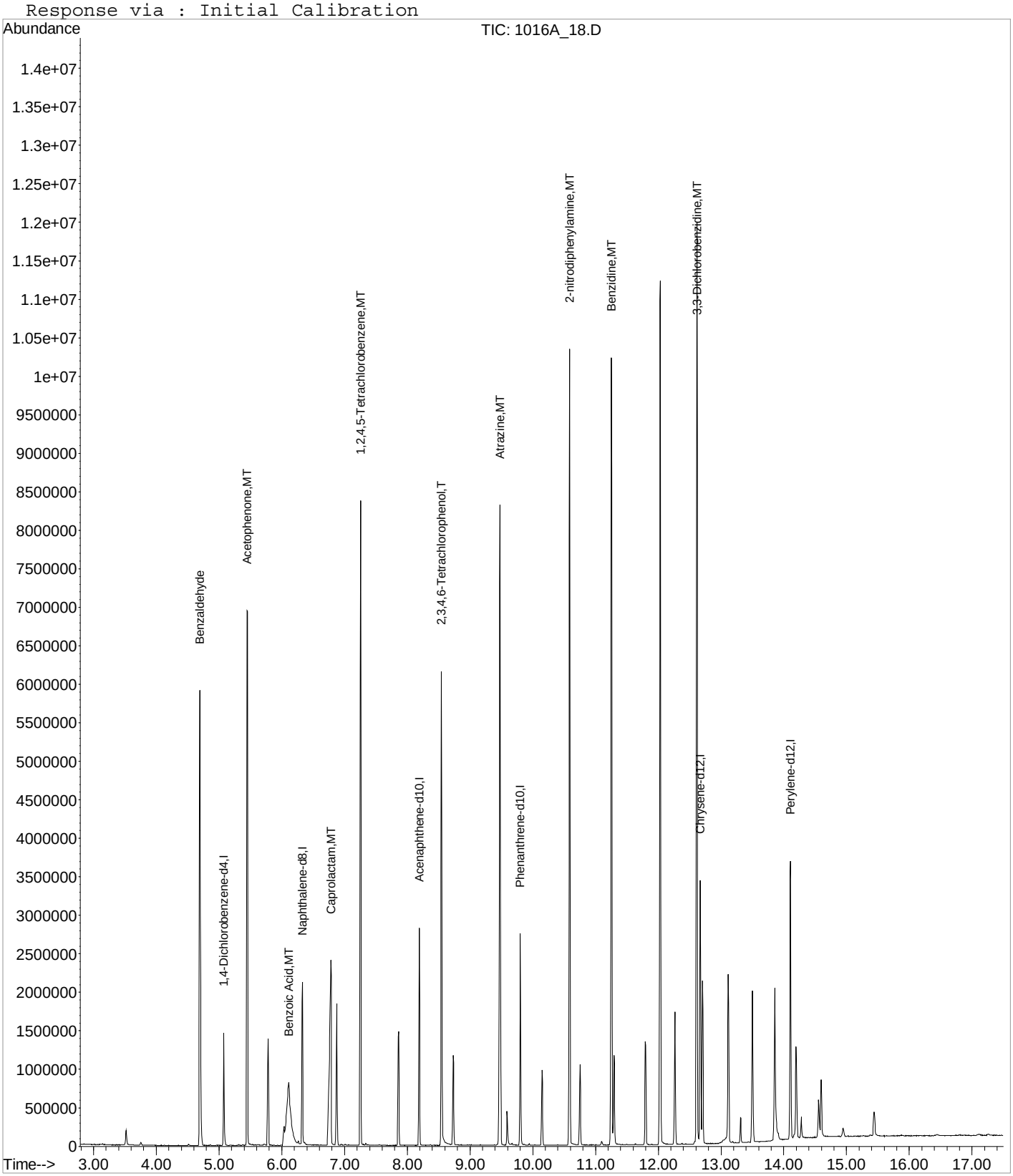
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1445591	37585.2974107 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D. d		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. 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	8.54	232	714523	41827.2919796 ppb		89
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. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.48	200	961260	39085.8601465 ppb		97
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D. d		
69)	Hexachlorobenzene	0.00	284	0	N.D. 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	10.59	167	1549514	42338.6401625 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	4492579	45214.5472337 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	12.61	252	2745993	39858.4270463 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. 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\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: S804J16N.RES

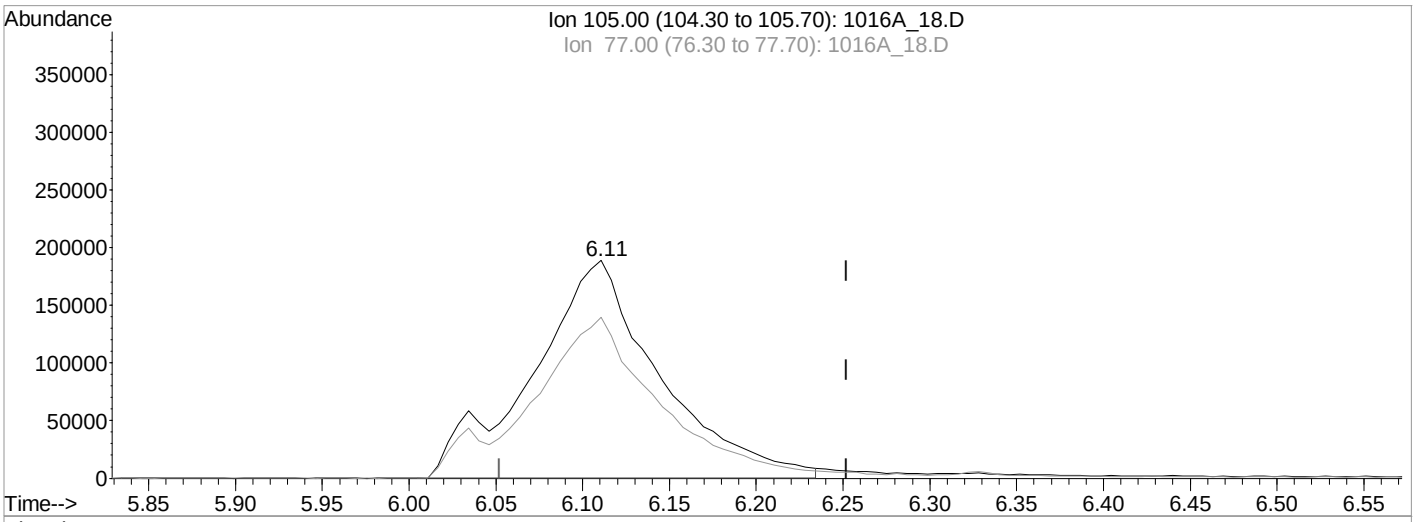
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:05:52 2014
Response via : Initial Calibration

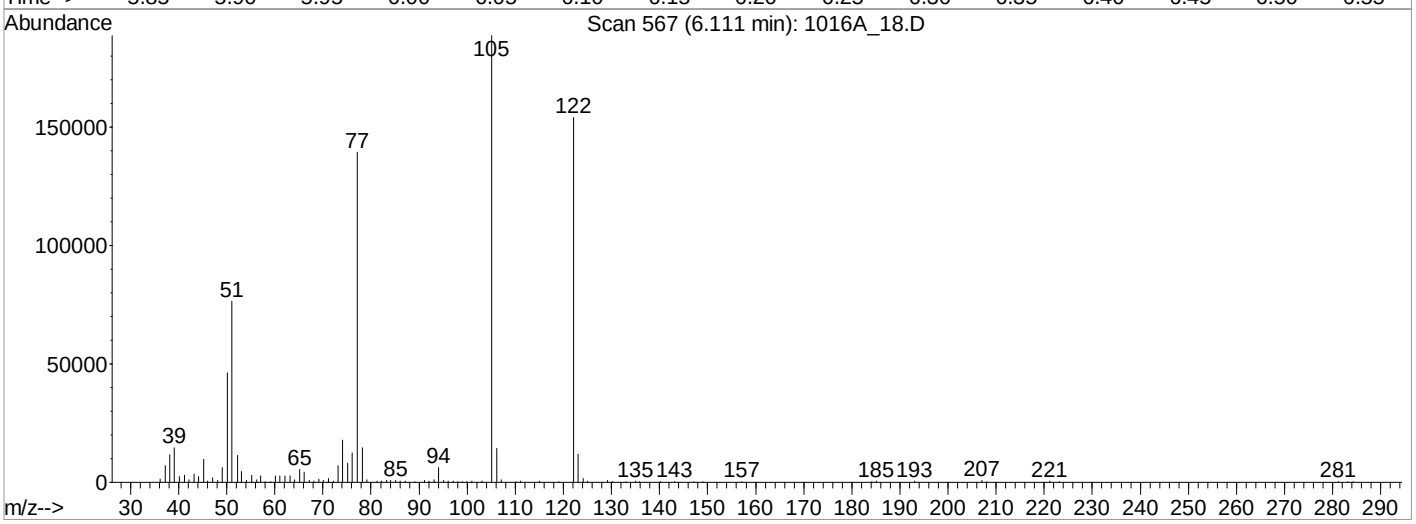


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:05:52 2014
Response via : Single Level Calibration





TIC: 1016A_18.D

(30) Benzoic Acid (MT)

6.11min (+0.059) 55606.0831449 ppb

Qvalue = 90

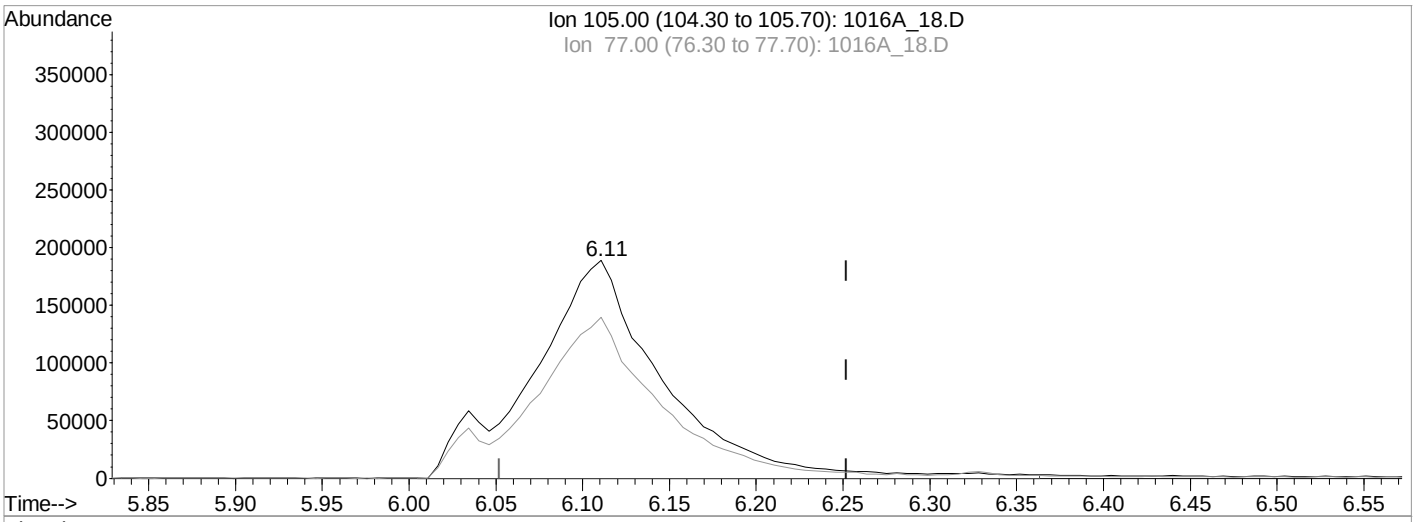
response 960038

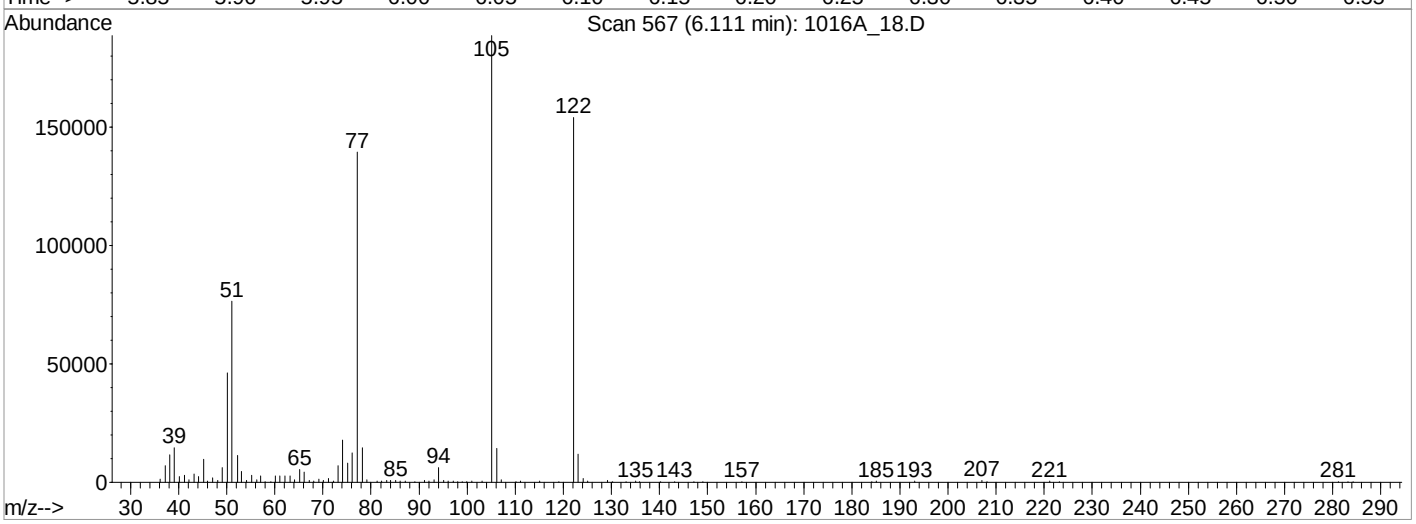
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	74.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:05:52 2014
Response via : Single Level Calibration





TIC: 1016A_18.D

(30) Benzoic Acid (MT)

6.11min (+0.059) 57904.8982272 ppb m

response 999727

Ion	Exp%	Act%
105.00	100	100
77.00	65.90	71.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	208296	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	899852	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	568452	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	990081	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1092030	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1243772	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery =	0.00%#	
7) Phenol-d5	0.00	99	0d	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. 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	4.69	105	1146456	51846.9160560 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. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. 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. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	2529996	45836.1748757 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. 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	6.12	105	1244094m	74475.4979009 ppb	
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	6.79	113	616233	49575.5986846 ppb	93
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. 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\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

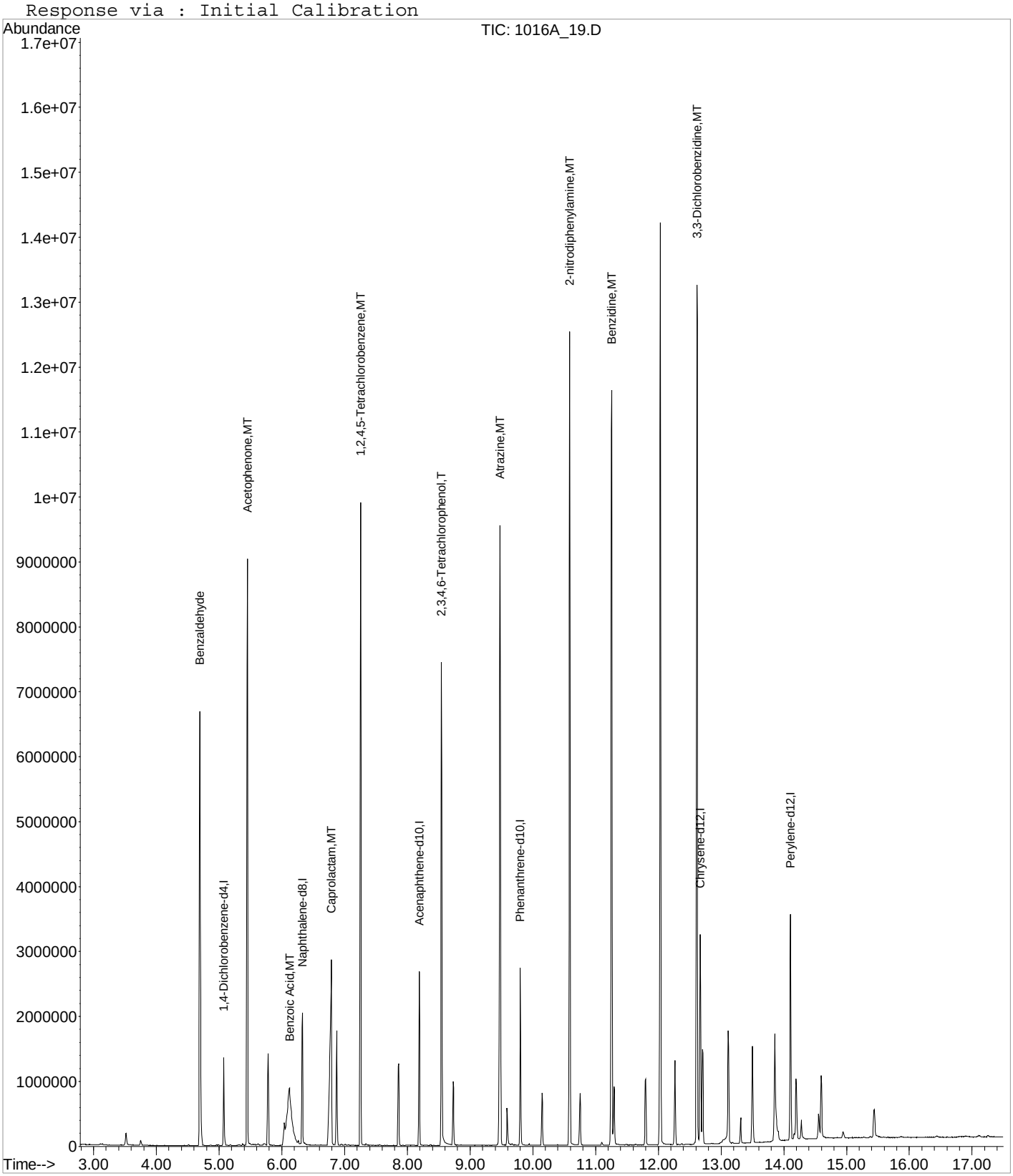
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1717135	46142.7351810 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D. d		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. 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. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	864975	52842.0986465 ppb		87
57)	4-Nitrophenol	0.00	139	0	N.D. 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. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.48	200	1181010	50114.7242350 ppb		97
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D. d		
69)	Hexachlorobenzene	0.00	284	0	N.D. 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	10.59	167	1902594	53293.3997452 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.26	184	5234384	55075.5227439 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	12.62	252	3194826	48481.7764609 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. 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\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: S804J16N.RES

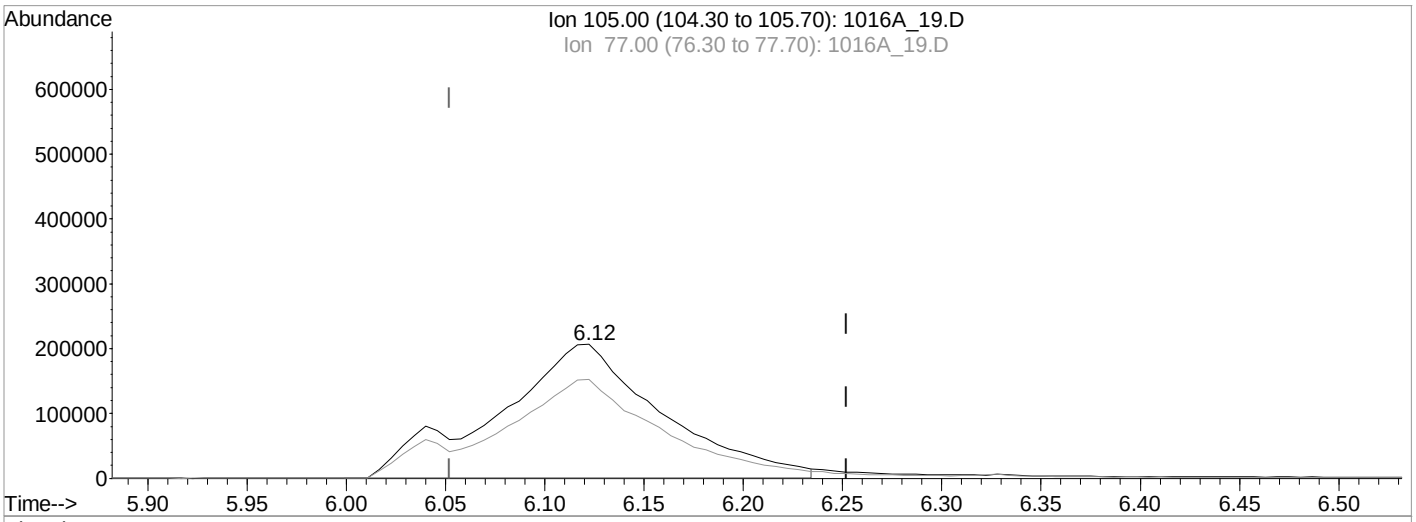
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:07:21 2014
Response via : Initial Calibration

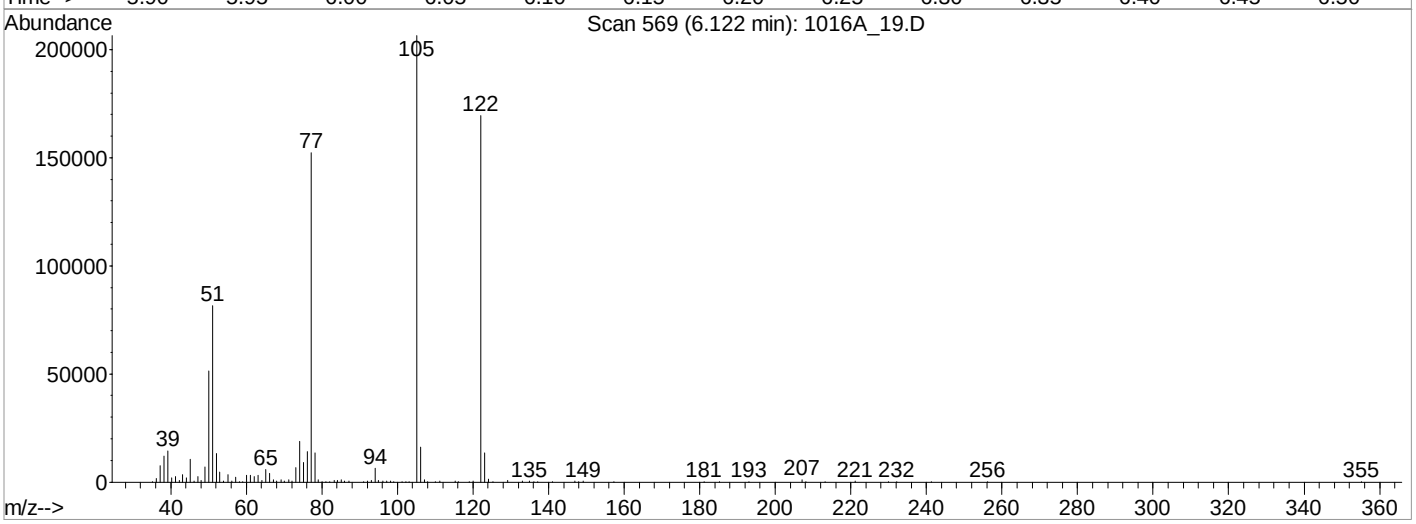


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:07:21 2014
Response via : Single Level Calibration





TIC: 1016A_19.D

(30) Benzoic Acid (MT)

6.12min (+0.071) 71974.8906331 ppb

Qvalue = 91

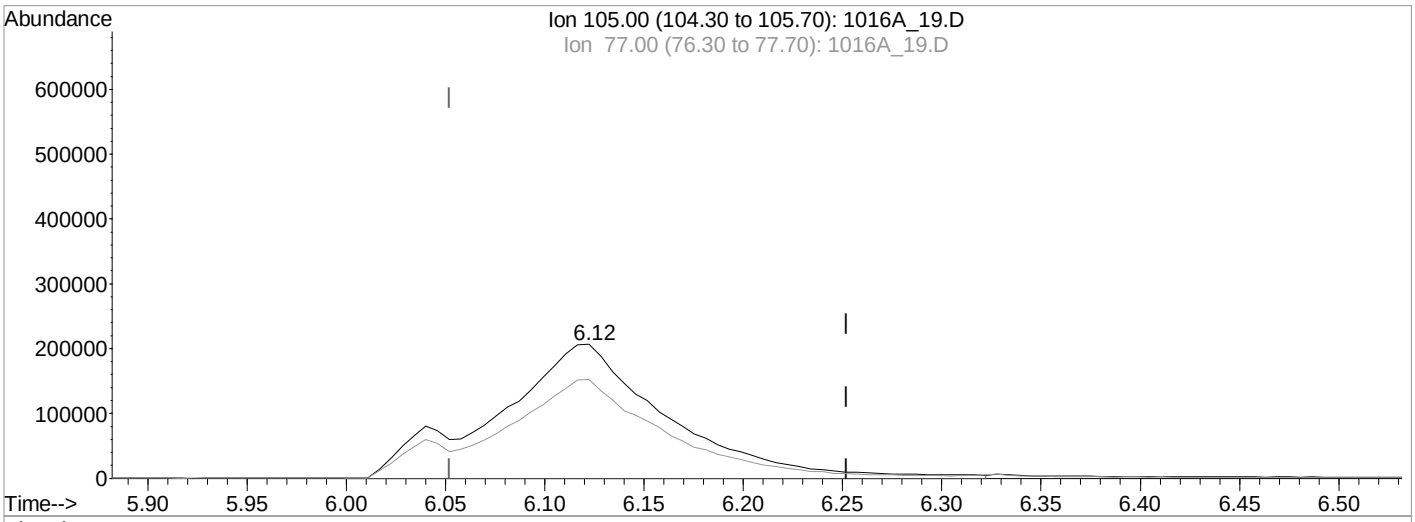
response 1202322

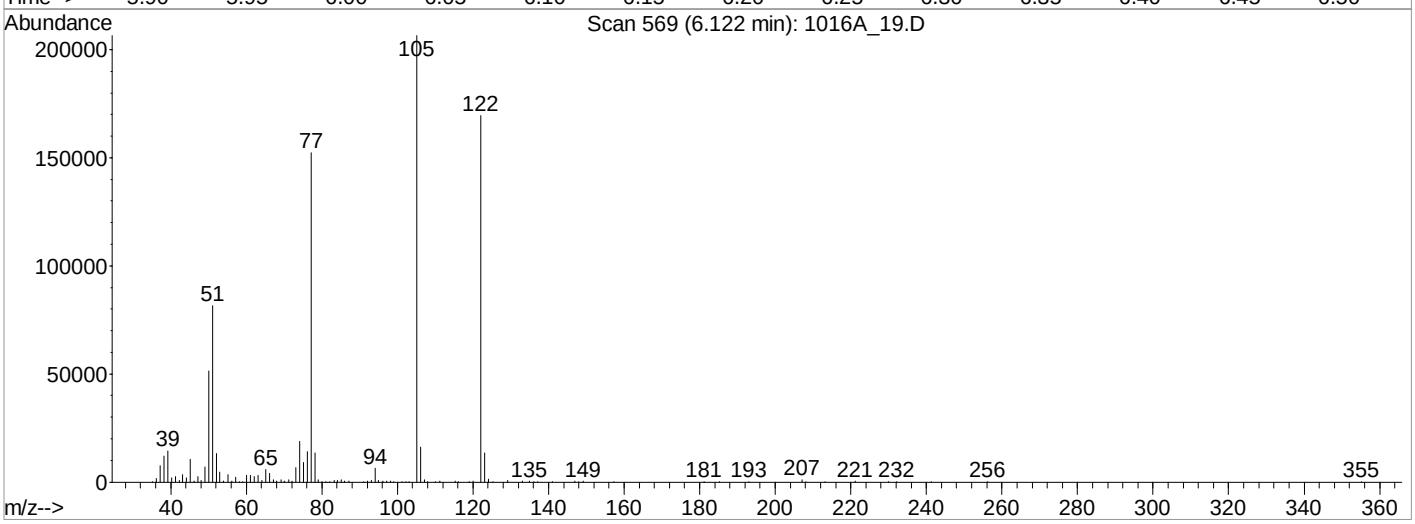
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	72.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:07:21 2014
Response via : Single Level Calibration





TIC: 1016A_19.D

(30) Benzoic Acid (MT)

6.12min (+0.071) 74475.4979009 ppb m

response 1244094

Ion	Exp%	Act%
105.00	100	100
77.00	65.90	70.50
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatiles by Method 8270C-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: L729026

Semi-Volatiles by Method 8270C-SIM
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0055AA

Login No: L729026

Lab SampleID.	Client ID
L729026-01	TU503-SB01-DS01
L729026-02	TU503-SB01-NS01
L729026-03	TU503-SB01-NS02
L729026-04	TU503-TRIPBLANK04-NT01
L729026-05	TU503-SB05-NS01
L729026-06	TU503-SB05-NS02

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

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Workgroup: **WG750213**
Description: **PAHs by SIM by Method 8270C-SIM (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729026-01 1x	10/20/2014	10/24/2014	10/25/2014
L729026-02 1x	10/20/2014	10/24/2014	10/25/2014
L729026-03 1x	10/20/2014	10/24/2014	10/25/2014
L729026-05 1x	10/20/2014	10/24/2014	10/25/2014
L729026-06 1x	10/20/2014	10/24/2014	10/25/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
SVGCMS7	LCS WG750213	LCS WG750213	1025_03.D	10/25/2014	2:35 AM
SVGCMS7	LCSD WG750213	LCSD WG750213	1025_04.D	10/25/2014	2:58 AM
SVGCMS7	Blank WG750213	Blank WG750213	1025_05.D	10/25/2014	3:21 AM
SVGCMS7	MS WG750213	MS WG750213	1025_15.D	10/25/2014	7:10 AM
SVGCMS7	MSD WG750213	MSD WG750213	1025_16.D	10/25/2014	7:33 AM
SVGCMS7	TU503-SB01-DS01	L729026-01	1025_21.D	10/25/2014	9:27 AM
SVGCMS7	TU503-SB01-NS01	L729026-02	1025_22.D	10/25/2014	9:50 AM
SVGCMS7	TU503-SB01-NS02	L729026-03	1025_23.D	10/25/2014	10:13 AM
SVGCMS7	TU503-SB05-NS01	L729026-05	1025_24.D	10/25/2014	10:36 AM
SVGCMS7	TU503-SB05-NS02	L729026-06	1025_25.D	10/25/2014	10:59 AM

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
2-Methylnaphthalene	91-57-6	< 20.0	< 0.641	
Acenaphthene	83-32-9	< 6.00	< 0.600	
Acenaphthylene	208-96-8	< 6.00	< 0.600	
Anthracene	120-12-7	< 6.00	< 0.600	
Benzo(a)anthracene	56-55-3	< 6.00	< 0.600	
Benzo(a)pyrene	50-32-8	< 6.00	< 0.600	
Benzo(b)fluoranthene	205-99-2	< 6.00	< 0.600	
Benzo(g,h,i)perylene	191-24-2	< 6.00	< 0.600	
Benzo(k)fluoranthene	207-08-9	< 6.00	< 0.600	
Chrysene	218-01-9	< 6.00	< 0.600	
Dibenz(a,h)anthracene	53-70-3	< 6.00	< 0.600	
Fluoranthene	206-44-0	< 6.00	< 0.600	
Fluorene	86-73-7	< 6.00	< 0.600	
Indeno(1,2,3-cd)pyrene	193-39-5	< 6.00	< 0.600	
Naphthalene	91-20-3	< 20.0	0.933	
Phenanthrene	85-01-8	< 6.00	< 0.600	
Pyrene	129-00-0	< 6.00	< 0.600	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Methylnaphthalene	1	80	68.557	85.7	45.7 - 131	
Acenaphthene	1	80	73.567	92	48.7 - 127	
Acenaphthylene	1	80	76.056	95.1	47.9 - 128	
Anthracene	1	80	78.675	98.3	51.3 - 136	
Benzo(a)anthracene	1	80	78.030	97.5	55 - 126	
Benzo(a)pyrene	1	80	65.710	82.1	51.9 - 127	
Benzo(b)fluoranthene	1	80	62.327	77.9	54 - 125	
Benzo(g,h,i)perylene	1	80	71.916	89.9	53.8 - 136	
Benzo(k)fluoranthene	1	80	68.912	86.1	53.9 - 132	
Chrysene	1	80	73.381	91.7	55.7 - 133	
Dibenz(a,h)anthracene	1	80	72.972	91.2	52.6 - 137	
Fluoranthene	1	80	76.907	96.1	54 - 132	
Fluorene	1	80	76.187	95.2	48.7 - 127	
Indeno(1,2,3-cd)pyrene	1	80	72.686	90.9	53.8 - 138	
Naphthalene	1	80	60.050	75.1	42 - 127	
Phenanthrene	1	80	72.915	91.1	49.6 - 126	
Pyrene	1	80	82.902	104	54 - 129	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Methylnaphthalene	1	80	69.416	86.8	45.7 - 131	
Acenaphthene	1	80	73.771	92.2	48.7 - 127	
Acenaphthylene	1	80	76.164	95.2	47.9 - 128	
Anthracene	1	80	79.767	99.7	51.3 - 136	
Benzo(a)anthracene	1	80	79.440	99.3	55 - 126	
Benzo(a)pyrene	1	80	67.016	83.8	51.9 - 127	
Benzo(b)fluoranthene	1	80	68.492	85.6	54 - 125	
Benzo(g,h,i)perylene	1	80	73.855	92.3	53.8 - 136	
Benzo(k)fluoranthene	1	80	65.081	81.4	53.9 - 132	
Chrysene	1	80	76.368	95.5	55.7 - 133	
Dibenz(a,h)anthracene	1	80	74.796	93.5	52.6 - 137	
Fluoranthene	1	80	78.001	97.5	54 - 132	
Fluorene	1	80	77.205	96.5	48.7 - 127	
Indeno(1,2,3-cd)pyrene	1	80	74.837	93.5	53.8 - 138	
Naphthalene	1	80	60.801	76	42 - 127	
Phenanthrene	1	80	73.790	92.2	49.6 - 126	
Pyrene	1	80	85.018	106	54 - 129	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

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	80	68.557	85.7	69.416	86.8	45.7 - 131		1.24	20	
Acenaphthene	1	80	73.567	92	73.771	92.2	48.7 - 127		0.28	20	
Acenaphthylene	1	80	76.056	95.1	76.164	95.2	47.9 - 128		0.14	20	
Anthracene	1	80	78.675	98.3	79.767	99.7	51.3 - 136		1.38	20	
Benzo(a)anthracene	1	80	78.030	97.5	79.440	99.3	55 - 126		1.79	20	
Benzo(a)pyrene	1	80	65.710	82.1	67.016	83.8	51.9 - 127		1.97	20	
Benzo(b)fluoranthene	1	80	62.327	77.9	68.492	85.6	54 - 125		9.43	20	
Benzo(g,h,i)perylene	1	80	71.916	89.9	73.855	92.3	53.8 - 136		2.66	20	
Benzo(k)fluoranthene	1	80	68.912	86.1	65.081	81.4	53.9 - 132		5.72	20	
Chrysene	1	80	73.381	91.7	76.368	95.5	55.7 - 133		3.99	20	
Dibenz(a,h)anthracene	1	80	72.972	91.2	74.796	93.5	52.6 - 137		2.47	20	
Fluoranthene	1	80	76.907	96.1	78.001	97.5	54 - 132		1.41	20	
Fluorene	1	80	76.187	95.2	77.205	96.5	48.7 - 127		1.33	20	
Indeno(1,2,3-cd)pyrene	1	80	72.686	90.9	74.837	93.5	53.8 - 138		2.92	20	
Naphthalene	1	80	60.050	75.1	60.801	76	42 - 127		1.24	20	
Phenanthrene	1	80	72.915	91.1	73.790	92.2	49.6 - 126		1.19	20	
Pyrene	1	80	82.902	104	85.018	106	54 - 129		2.52	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Matrix Spike / Matrix Spike Duplicate

L729021-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
2-Methylnaphthalene	1	106	<0.641	80.573	76.1	81.431	77	37.5 - 137		1.06	20.4	
Acenaphthene	1	106	<0.6	85.636	80.9	86.821	82	39.4 - 132		1.37	20	
Acenaphthylene	1	106	<0.6	88.744	83.9	88.302	83.4	41.3 - 132		0.5	20	
Anthracene	1	106	<0.6	88.281	83.4	90.164	85.2	36.7 - 144		2.11	20.7	
Benzo(a)anthracene	1	106	<0.6	78.058	73.8	81.938	77.4	28 - 144		4.85	24.7	
Benzo(a)pyrene	1	106	<0.6	70.235	66.4	73.567	69.5	23.8 - 147		4.63	25.3	
Benzo(b)fluoranthene	1	106	<0.6	65.064	61.5	67.617	63.9	18.2 - 147		3.85	29.5	
Benzo(g,h,i)perylene	1	106	<0.6	74.392	70.3	77.640	73.4	9.2 - 155		4.27	29.2	
Benzo(k)fluoranthene	1	106	<0.6	70.318	66.5	73.867	69.8	26.5 - 143		4.92	26.1	
Chrysene	1	106	<0.6	76.024	71.8	80.172	75.8	27.4 - 150		5.31	25.7	
Dibenz(a,h)anthracene	1	106	<0.6	75.656	71.5	79.804	75.4	13.8 - 150		5.34	25.8	
Fluoranthene	1	106	<0.6	80.498	76.1	83.387	78.8	23.2 - 158		3.53	26	
Fluorene	1	106	<0.6	87.548	82.7	87.544	82.7	30.8 - 139		0	20	
Indeno(1,2,3-cd)pyrene	1	106	<0.6	76.031	71.8	79.842	75.5	10.7 - 155		4.89	26.9	
Naphthalene	1	106	2.1525	73.117	67.1	74.452	68.3	34.9 - 133		1.81	20.4	
Phenanthrene	1	106	<0.6	82.898	78.3	83.932	79.3	20.2 - 150		1.24	24.6	
Pyrene	1	106	<0.6	85.750	81	89.427	84.5	22.6 - 151		4.2	25.1	

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Surrogate Summary

			FBP		NBZ		TPH	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729026-01	SVGCMS7	1025_21	0.0686	82.3	0.0642	77.1	0.0686	82.4
L729026-02	SVGCMS7	1025_22	0.0730	87.6	0.0703	84.4	0.0732	87.9
L729026-03	SVGCMS7	1025_23	0.0724	86.9	0.0684	82.2	0.0709	85.1
L729026-05	SVGCMS7	1025_24	0.0717	86.1	0.0663	79.6	0.0698	83.8
L729026-06	SVGCMS7	1025_25	0.0698	83.8	0.0661	79.4	0.0646	77.6
LCS WG750213	SVGCMS7	1025_03	0.0794	95.3	0.0761	91.3	0.0806	96.8
LCSD WG750213	SVGCMS7	1025_04	0.0813	97.6	0.0792	95.1	0.0833	100
BLANK WG750213	SVGCMS7	1025_05	0.0762	91.5	0.0724	86.9	0.0796	95.6
MS WG750213	SVGCMS7	1025_15	0.0684	82.1	0.0665	79.8	0.0694	83.4
MSD WG750213	SVGCMS7	1025_16	0.0696	83.6	0.0703	84.4	0.0632	75.9

FBP --2-FLUOROBIPHENYL	True Value: 0.0833 ppm	Limits: 38.2 - 135
NBZ --NITROBENZENE-D5	True Value: 0.0833 ppm	Limits: 28.4 - 151
TPH --P-TERPHENYL-D14	True Value: 0.0833 ppm	Limits: 34.20 - 141

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0055AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/20/2014	**Analytic Batch:**	**WG750213**
Analysis Date:	10/25/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/22/2014
Sample Numbers:	L729026-01, -02, -03, -05, -06		

Instrument Performance Summary

FileID:1025_01.D Date:10/25/2014 Time: 1:48 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 442	32.2
68	Less than 2% of mass 69	0.0
70	Less than 2% of mass 69	1.0
127	10 - 80% of mass 442	39.6
197	Less than 2% of mass 198	0.0
198	50 - 100% of mass 442	74.1
199	5 - 9% of mass 198	7.1
275	10 - 60% of mass 442	22.6
365	1 - 100% of mass 442	3.4
441	Present, but less than mass 443	81.9
442	50 - 100% of mass 442	100.0
443	15 - 24% of mass 442	19.5

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG750213	LCS WG750213	1025_03.D	10/25/2014	2:35 AM
LCSD WG750213	LCSD WG750213	1025_04.D	10/25/2014	2:58 AM
Blank WG750213	Blank WG750213	1025_05.D	10/25/2014	3:21 AM
MS WG750213	MS WG750213	1025_15.D	10/25/2014	7:10 AM
MSD WG750213	MSD WG750213	1025_16.D	10/25/2014	7:33 AM
TU503-SB01-DS01	L729026-01	1025_21.D	10/25/2014	9:27 AM
TU503-SB01-NS01	L729026-02	1025_22.D	10/25/2014	9:50 AM
TU503-SB01-NS02	L729026-03	1025_23.D	10/25/2014	10:13 AM
TU503-SB05-NS01	L729026-05	1025_24.D	10/25/2014	10:36 AM
TU503-SB05-NS02	L729026-06	1025_25.D	10/25/2014	10:59 AM

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C-SIM
Project: Holloman AFB
Instrument ID: SVGCMS7
Method Name : SS07J22N.M

Relative Response Factor Summary

Compound Name	Level 1	Level 5	Level 10	Level 20	Level 40	Level 80	Level 200	Level 1K	Level 2K	Average RRF	%RSD
Nitrobenzene-d5	0.273	0.275	0.263	0.286	0.278	0.274	0.309	0.319	0.325	0.289275	7.75
Naphthalene		1.204	1.019	1.051	0.980	0.956	1.022	1.015	1.031	1.034608	7.19
2-Methylnaphthalene	0.638	0.659	0.610	0.671	0.633	0.629	0.687	0.685	0.693	0.655933	4.52
1-Methylnaphthalene	0.594	0.612	0.569	0.621	0.591	0.586	0.641	0.640	0.643	0.610849	4.46
2-Fluorobiphenyl	1.228	1.284	1.188	1.292	1.209	1.185	1.315	1.274	1.310	1.253898	4.13
2-Chloronaphthalene	1.019	1.066	0.985	1.089	1.016	1.003	1.094	1.072	1.078	1.046872	3.90
Acenaphthylene	1.528	1.607	1.487	1.664	1.618	1.579	1.801	1.830	1.870	1.664897	8.27
Acenaphthene	1.088	1.134	1.052	1.153	1.075	1.066	1.177	1.172	1.186	1.122553	4.68
Dibenzofuran	1.445	1.501	1.389	1.528	1.417	1.411	1.556	1.507	1.524	1.475284	4.10
Fluorene	1.200	1.269	1.169	1.287	1.229	1.210	1.345	1.333	1.372	1.268202	5.61
Phenanthrene	1.094	1.086	1.008	1.115	1.029	1.022	1.158	1.127	1.153	1.088021	5.20
Anthracene	0.941	0.980	0.915	1.030	1.000	0.997	1.168	1.172	1.202	1.044956	10.29
Fluoranthene	1.021	1.058	0.984	1.101	1.042	1.037	1.211	1.191	1.210	1.095090	7.98
Pyrene	1.219	1.232	1.141	1.247	1.171	1.146	1.240	1.260	1.313	1.218839	4.66
p-Terphenyl-d14	0.951	0.952	0.886	0.970	0.909	0.894	0.958	0.971	0.997	0.943217	4.04
Benzo(a)anthracene	1.122	1.057	0.962	1.062	1.021	1.013	1.089	1.143	1.208	1.075290	6.97
Chrysene	1.054	1.068	0.980	1.064	1.005	0.974	1.062	1.067	1.136	1.045544	4.88
Benzo(b)fluoranthene	1.134	1.089	0.987	1.106	1.041	1.020	1.149	1.210	1.175	1.101056	6.75
Benzo(k)fluoranthene	0.933	1.030	0.969	1.046	0.993	0.971	1.014	1.158	1.055	1.018749	6.43
Benzo(a)pyrene	0.849	0.874	0.807	0.898	0.856	0.840	0.939	0.977	0.994	0.892543	7.23
Indeno(1,2,3-cd)pyrene	1.075	1.067	0.987	1.097	1.039	1.015	1.075	1.321	1.279	1.106095	10.44
Dibenz(a,h)anthracene	0.876	0.896	0.834	0.933	0.878	0.856	0.924	1.133	1.121	0.938980	11.80
Benzo(g,h,i)perylene	0.947	0.937	0.859	0.961	0.892	0.867	0.915	1.103	1.019	0.944355	8.19

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Quality Control Summary
SDG: L729026
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C-SIM
Project No: 23446543.0055AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/20/2014
Instrument ID: SVGCMS7

Method Name : SS07J22N.M Date : 10/25/2014
FileName : 1025_02.D Time : 2:11 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Naphthalene	1.0346	0.9189	11.2
2-Methylnaphthalene	0.6559	0.6096	7.06
Acenaphthylene	1.6649	1.6975	1.96
Acenaphthene	1.1226	1.0965	2.32
Fluorene	1.2682	1.2840	1.25
Phenanthrene	1.0880	1.0181	6.43
Anthracene	1.0450	1.0628	1.7
Fluoranthene	1.0951	1.0855	0.88
Pyrene	1.2188	1.1380	6.63
Benzo(a)anthracene	1.0753	1.0756	0.03
Chrysene	1.0455	1.0057	3.81
Benzo(b)fluoranthene	1.1011	0.9372	14.9
Benzo(k)fluoranthene	1.0187	0.8626	15.3
Benzo(a)pyrene	0.8925	0.7960	10.8
Indeno(1,2,3-cd)pyrene	1.1061	1.0368	6.26
Dibenz(a,h)anthracene	0.9390	0.8826	6.01
Benzo(g,h,i)perylene	0.9444	0.8728	7.57

*** - calibrated by linear regression*

Raw Data

SIM SS Extractions Benchsheet

Batch #: WG750213

Analyst: CBL520 **Prep Start Date/Time:** 10/24/14 15:05:13 **Prep End Date/Time:** 10/27/14 09:30:40

Na2SO4: 14I15522 Amt. Used: 10 Exp. Date:03/15/15 **MeCl2:** 14H28628 Amt. Used: 30 Exp. Date:02/28/15 **Surrogate:** 14J05507 Amt. Used: 25 µL Exp. Date:04/05/15

LCS/MS Spike: 14J23454 Amt. Used: 50 µL Exp. Date:11/30/14

Sample Number	Qualifiers	Initial Sample Wt.(g)	Soil Description	Solvent Vol. (mL)	Final Volume(mL)	Extract Color	Sample Comments
BLANK		15	Sand	20	30	Colorless	
LCS		15	Sand	20	30	Colorless	
LCSD		15	Sand	20	30	Colorless	
MS(L729021-02)		15	Sand	20	30	Colorless	
MSD(L729021-02)		15	Sand	20	30	Colorless	
1. L729012-01		15	Dirt	20	30	Colorless	EDD/QC4/DOD
2. L729012-02		15	Sand	20	30	Colorless	EDD/QC4/DOD
3. L729012-04		15	Sand	20	30	Colorless	EDD/QC4/DOD
4. L729012-05		15	Sand	20	30	Colorless	EDD/QC4/DOD
5. L729012-06		15	Sand	20	30	Colorless	EDD/QC4/DOD
6. L729012-07		15	Sand	20	30	Colorless	EDD/QC4/DOD
7. L729021-01		15	Sand	20	30	Colorless	EDD/QC4/DOD
8. L729021-02		15	Sand	20	30	Colorless	EDD/QC4/DOD - MS/MSD sample
9. L729024-01		15	Sand	20	30	Colorless	EDD/QC4/DOD
10. L729024-02		15	Sand	20	30	Colorless	EDD/QC4/DOD
11. L729024-04		15	Sand	20	30	Colorless	EDD/QC4/DOD
12. L729024-05		15	Sand	20	30	Colorless	EDD/QC4/DOD
13. L729026-01		15	Sand	20	30	Colorless	EDD/QC4/DOD

14. L729026-02		15	Sand	20	30	Colorless	EDD/QC4/DOD
15. L729026-03		15	Sand	20	30	Colorless	EDD/QC4/DOD
16. L729026-05		15	Sand	20	30	Colorless	EDD/QC4/DOD
17. L729026-06		15	Sand	20	30	Colorless	EDD/QC4/DOD
18. L729383-01		15	Dirt	20	30	Colorless	
19. L729711-01		15	Dirt	20	30	Brown	Relogged from L728886-19 MS 10/25/14

Comments:
SYRINGE ESC30133l728886-19 is sample#19 extract is brown, soil description is dirt.. email about relogging sample was sent but sample was not relogged when i ran sample. extract is hand labeled and chris johnson will add sample to workstat later. l728886-19 is a r2 rush
L729711-01 Time Added: 10/25/14 13:33:56

Reviewed By:KMF280 on 10/27/14 09:30:40

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : SVCOMPM
Released By : Kelly Fox
Date Released : 10/27/2014 9:58:23 AM
Run ID : 102514
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1025_00	INSTBLK	SS07J22N						1	1	10/25/14 0125	"instrument blank"
2	1025_01	TUNE DFTPP 2 PPM 14J03433	TUNE525						1	1	10/25/14 0148	"DFTTP TUNE"
3	1025_01T	TUNE DFTPP 2 PPM 14J03433								1	10/25/14 0148	
4	1025_02	ICV SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/25/14 0211	"SIM STD"
5	1025_03	LCS	SS07J22N	WG750213	SV8270PAHSIM	SS			1	2	10/25/14 0235	"SOIL 14J05507/14I11314"
6	1025_04	LCSD	SS07J22N	WG750213	SV8270PAHSIM	SS			1	2	10/25/14 0258	"SOIL 14J05507/14I11314"
7	1025_05	BLANK	SS07J22N	WG750213	SV8270PAHSIM	SS			1	2	10/25/14 0321	"SOIL 14J05507/14I11314"
8	1025_06	L729012-01	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0344	"SOIL 14J05507/14I11314"
9	1025_07	L729012-02	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0407	"SOIL 14J05507/14I11314"
10	1025_08	L729711-01	SS07J22N	WG750213	SV8270PAHSIM	SS	TETRAHTX	TX	10	20	10/25/14 0430	"SOIL 14J05507/14I11314"
11	1025_09	L729012-04	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0453	"SOIL 14J05507/14I11314"
12	1025_10	L729012-05	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0515	"SOIL 14J05507/14I11314"
13	1025_11	L729012-06	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0538	"SOIL 14J05507/14I11314"
14	1025_12	DNR L729012-07	SS07J22N	WG750213					1	2	10/25/14 0601	"SOIL 14J05507/14I11314"
15	1025_13	L729021-01	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0624	"SOIL 14J05507/14I11314"
16	1025_14	L729021-02	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0647	"SOIL 14J05507/14I11314"
17	1025_15	MS	SS07J22N	WG750213	SV8270PAHSIM	SS			1	2	10/25/14 0710	"SOIL 14J05507/14I11314"
18	1025_16	MSD	SS07J22N	WG750213	SV8270PAHSIM	SS			1	2	10/25/14 0733	"SOIL 14J05507/14I11314"
19	1025_17	L729024-01	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0756	"SOIL 14J05507/14I11314"
20	1025_18	L729024-02	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0819	"SOIL 14J05507/14I11314"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : SVCOMPM
Released By : Kelly Fox
Date Released : 10/27/2014 9:58:23 AM
Run ID : 102514
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
21	1025_19	L729024-04	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0841	"SOIL 14J05507/14I11314"
22	1025_20	L729024-05	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0904	"SOIL 14J05507/14I11314"
23	1025_21	L729026-01	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0927	"SOIL 14J05507/14I11314"
24	1025_22	L729026-02	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 0950	"SOIL 14J05507/14I11314"
25	1025_23	L729026-03	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 1013	"SOIL 14J05507/14I11314"
26	1025_24	L729026-05	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 1036	"SOIL 14J05507/14I11314"
27	1025_25	L729026-06	SS07J22N	WG750213	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/25/14 1059	"SOIL 14J05507/14I11314"
28	1025_26	L729383-01	SS07J22N	WG750213	SV8270PAHSIM	SS	WHITEHEAD	TX	1	2	10/25/14 1122	"SOIL 14J05507/14I11314"
29	1025_27	L728771-05	SS07J22N	WG750226	SV8270PAHSIM	SS	BARTONLIN	IN	40	80	10/25/14 1145	"SOIL 14J05507/14I11314"
30	1025_28	L728771-03	SS07J22N	WG750226	SV8270PAHSIM	SS	BARTONLIN	IN	20	40	10/25/14 1207	"SOIL 14J05507/14I11314"
31	1025_29	L728771-06	SS07J22N	WG750226	SV8270PAHSIM	SS	BARTONLIN	IN	80	160	10/25/14 1230	"SOIL 14J05507/14I11314"
32	1025_30	L728771-07	SS07J22N	WG750226	SV8270PAHSIM	SS	BARTONLIN	IN	50	100	10/25/14 1253	"SOIL 14J05507/14I11314"
33	1025_31	L728771-08	SS07J22N	WG750226	SV8270PAHSIM	SS	BARTONLIN	IN	50	100	10/25/14 1316	"SOIL 14J05507/14I11314"
34	1025_32	L728771-09	SS07J22N	WG750226	SV8270PAHSIM	SS	BARTONLIN	IN	40	80	10/25/14 1339	"SOIL 14J05507/14I11314"
35	1025_33	DNR L728771-02	SS07J22N	WG750226					50	100	10/25/14 1402	"SOIL 14J05507/14I11314"

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 01.D Vial: 2
Acq On : 25 Oct 2014 1:48 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:08 2014 Quant Results File: TUNE525.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Initial Calibration
DataAcq Meth : PAH_20UL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

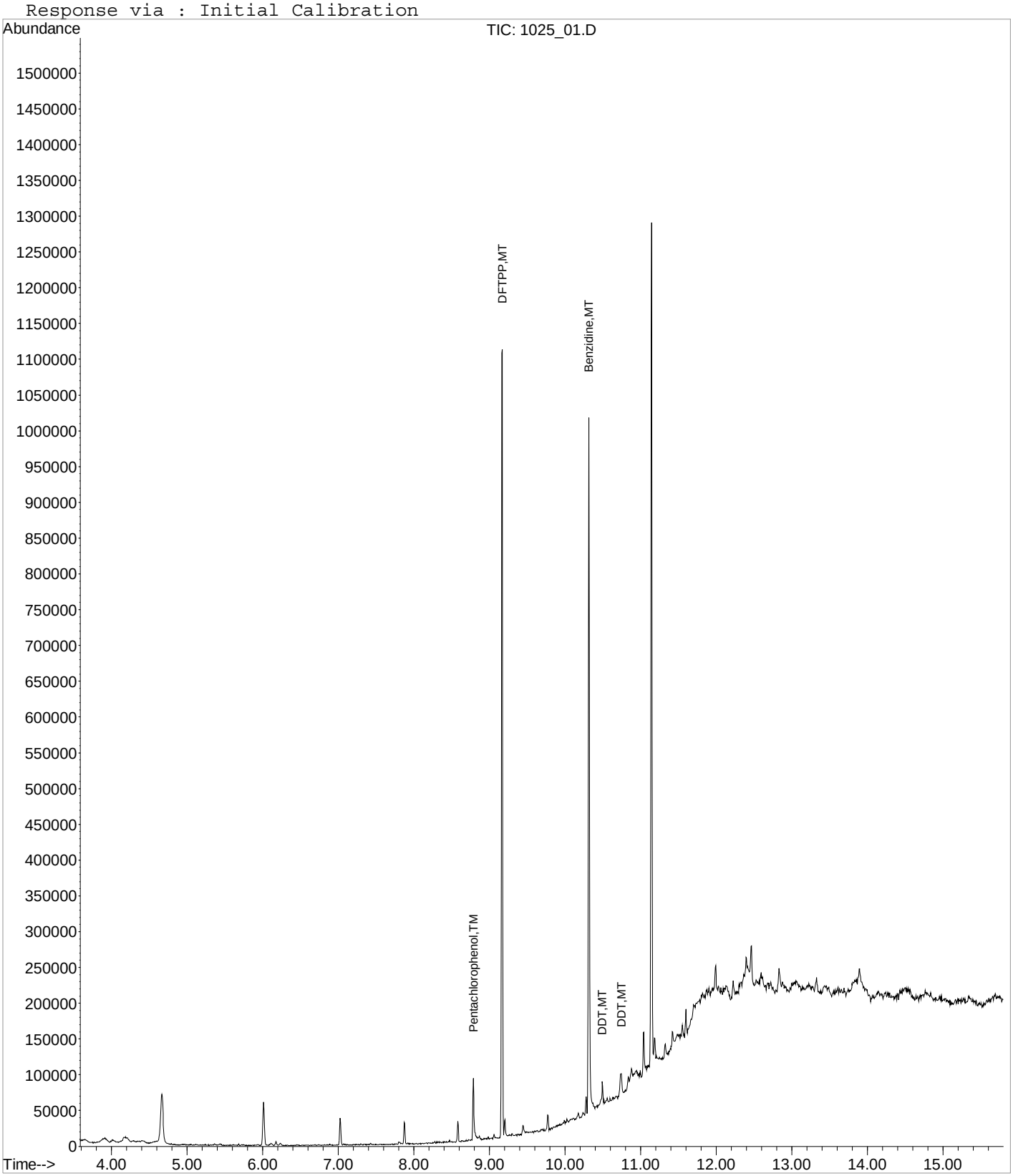
Target Compounds					Qvalue
1) Pentachlorophenol	8.79	264	9160	1.5697726 ug/mL	100
2) DFTPP	9.16	198	100651	13.6035822 ug/mL	100
3) Benzidine	10.32	184	401406	16.7241072 ug/mL	100
4) DDT	10.75	TIC	79467	5.9055961 ug/ml	100
5) DDT	10.50	235	111m	0.0082490 ug/mL	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 01.D Vial: 2
Acq On : 25 Oct 2014 1:48 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:08 2014 Quant Results File: TUNE525.RES

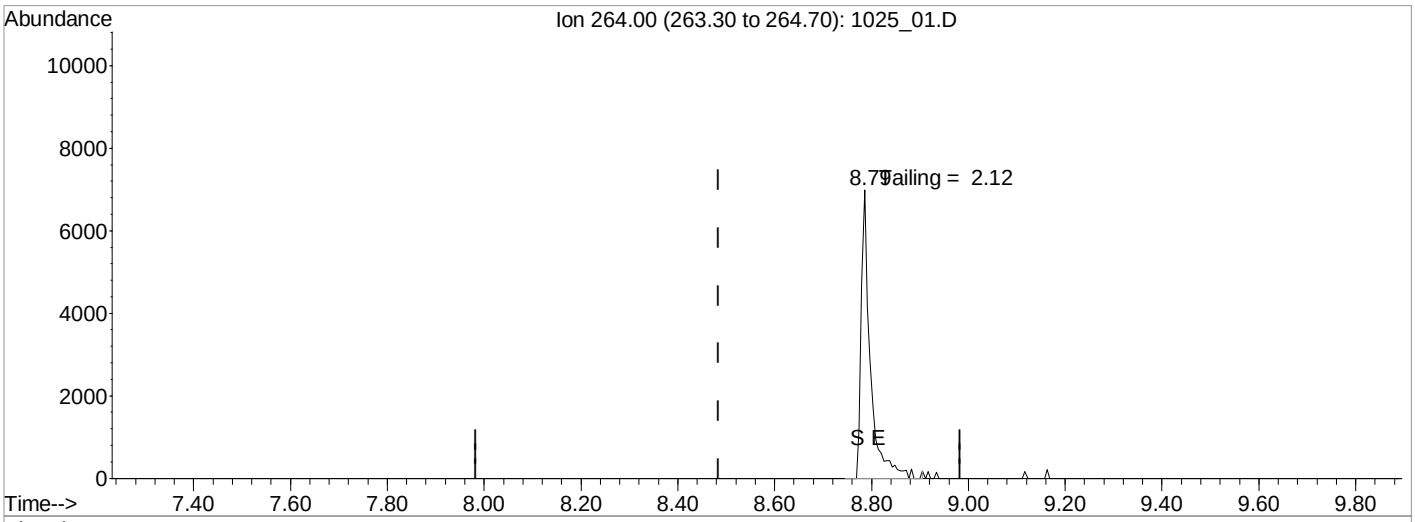
Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Initial Calibration

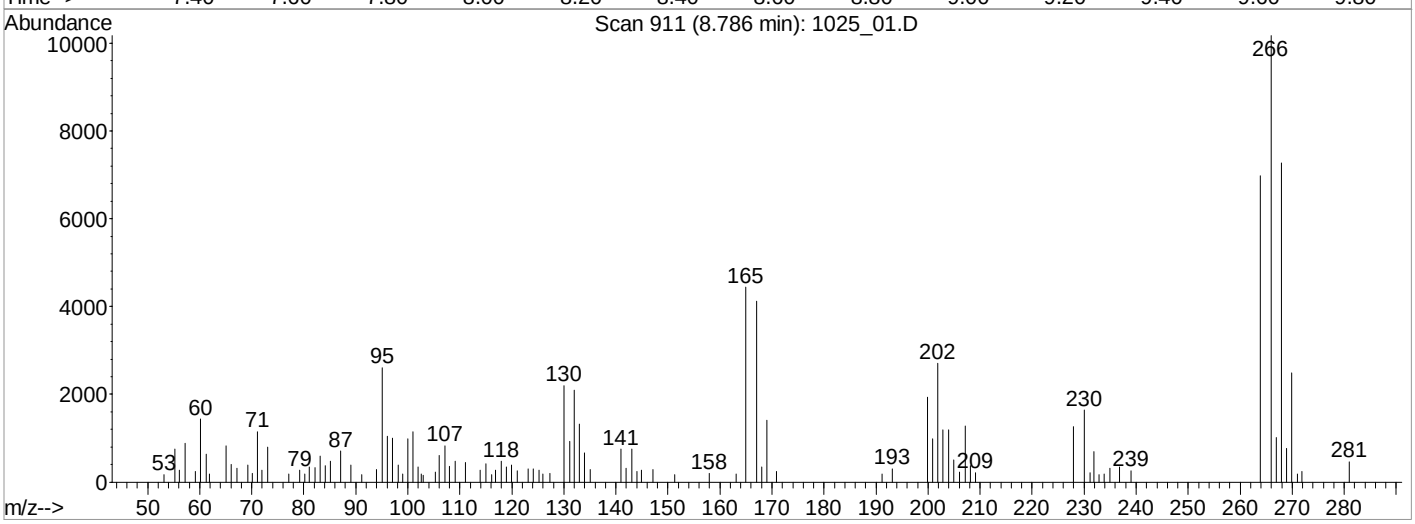


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102514\1025 01.D Vial: 2
Acq On : 25 Oct 2014 1:48 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 2:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration





TIC: 1025_01.D

(1) Pentachlorophenol (TM)

8.79min (+0.303) 1.5697726 ug/mL

Qvalue = 100

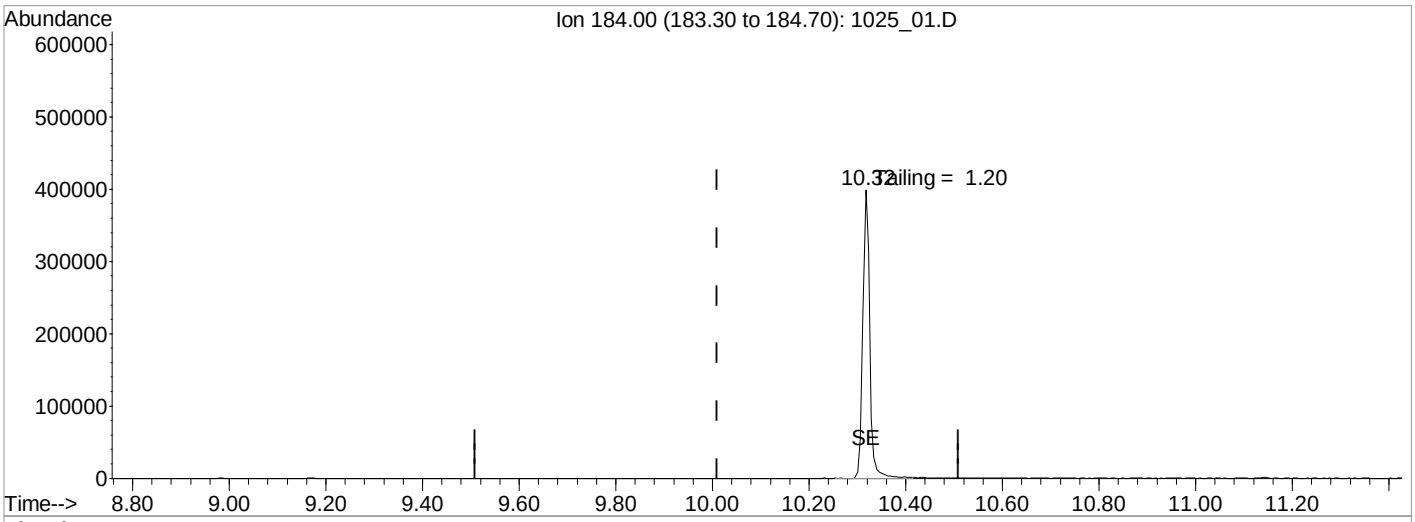
response 9160

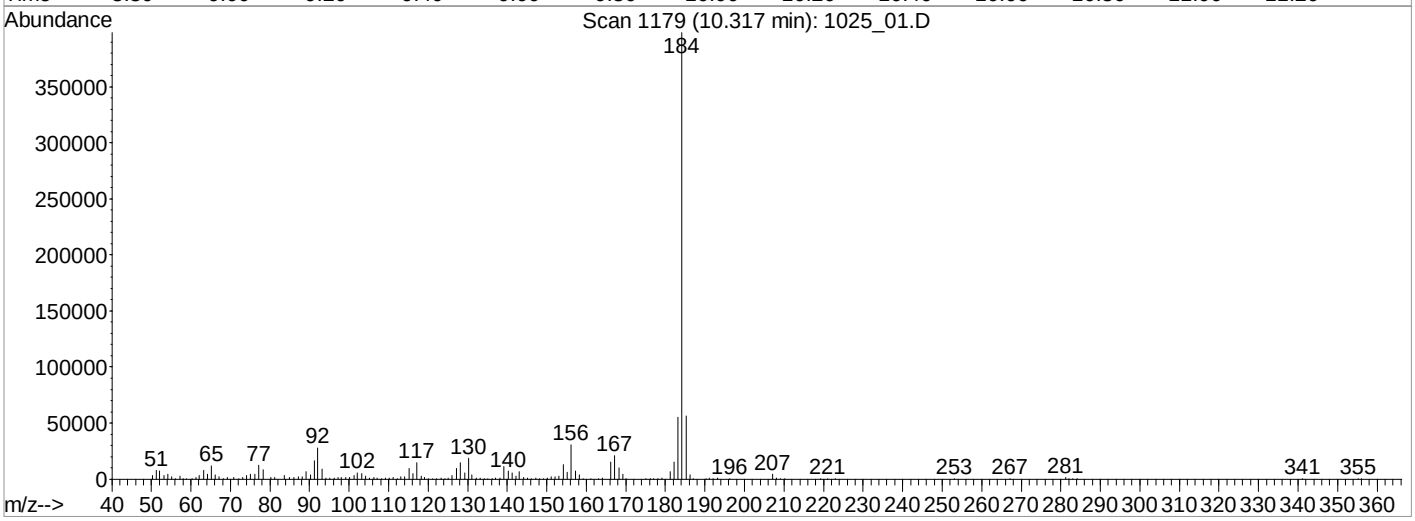
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102514\1025 01.D Vial: 2
Acq On : 25 Oct 2014 1:48 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 2:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration





TIC: 1025_01.D

(3) Benzidine (MT)

10.32min (+0.308) 16.7241072 ug/mL

Qvalue = 100

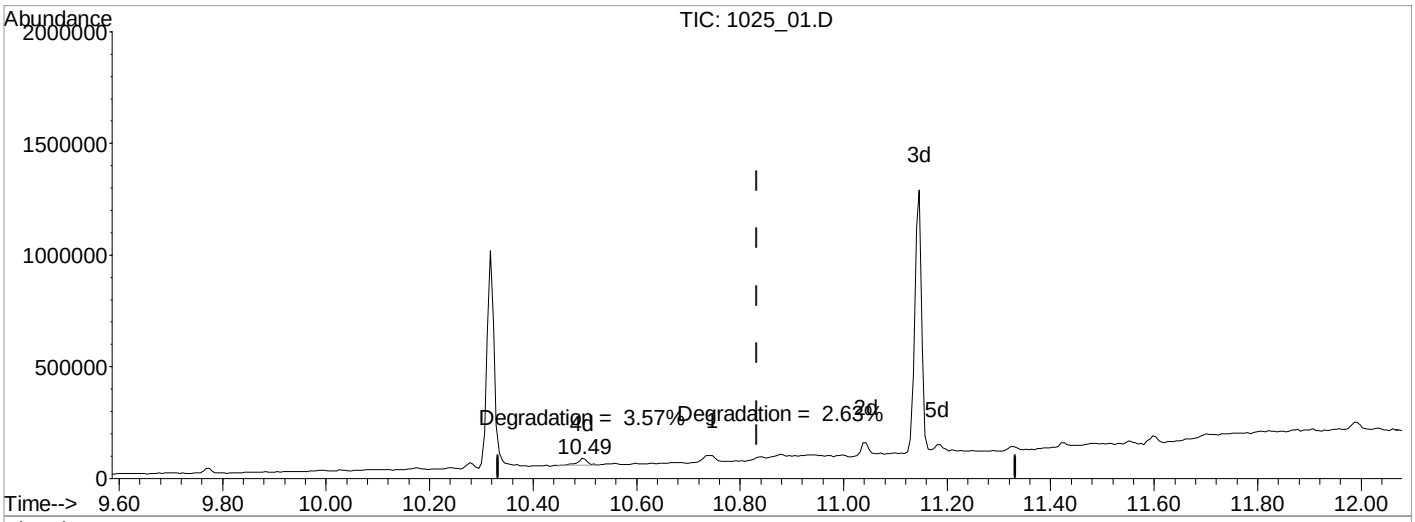
response 401406

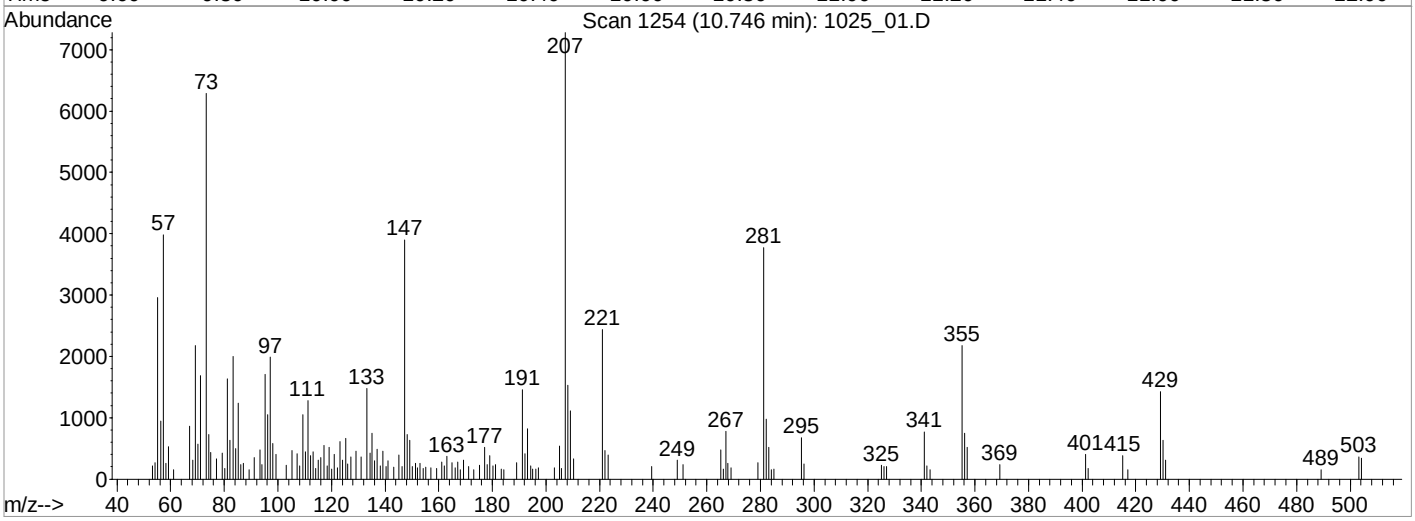
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102514\1025 01.D Vial: 2
Acq On : 25 Oct 2014 1:48 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration





TIC: 1025_01.D

(4) DDT (MT)

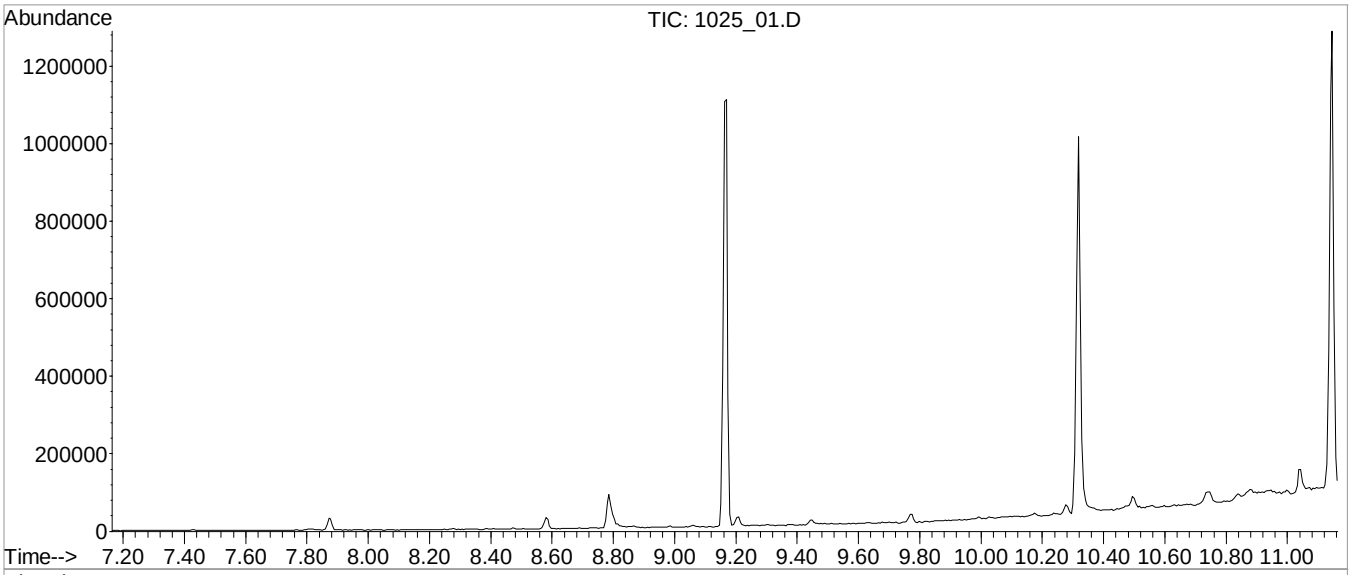
10.75min (-0.086) 5.9055961 ug/ml

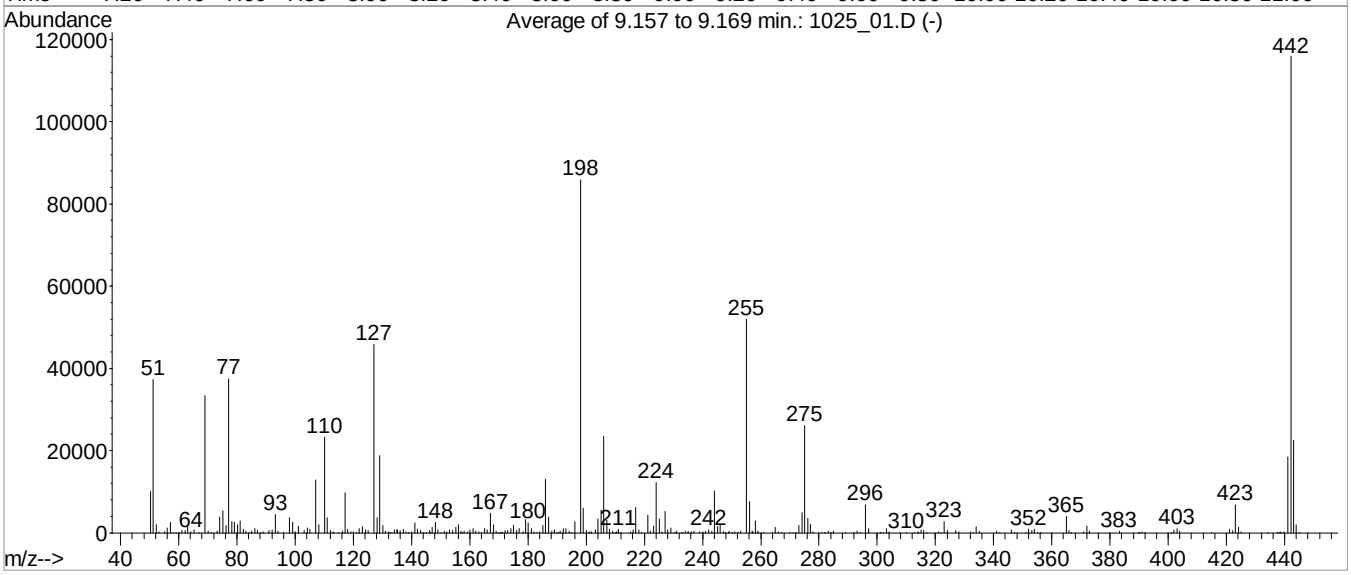
Qvalue = 100

response 79467

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 File : C:\MSDCHEM\1\DATA\102514\1025 01.D Vial: 2
Acq On : 25 Oct 2014 1:48 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA





AutoFind: Scans 976, 977, 978; Background Corrected with Scan 971

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	32.2	37285	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	1.0	350	PASS
127	442	10	80	39.6	45917	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	74.1	85906	PASS
199	198	5	9	7.1	6066	PASS
275	442	10	60	22.6	26154	PASS
365	442	1	100	3.4	3970	PASS
441	443	0.01	100	81.9	18467	PASS
442	442	50	100	100.0	115968	PASS
443	442	15	24	19.5	22560	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 02.D Vial: 3
Acq On : 25 Oct 2014 2:11 am Operator: 280
Sample : ICV SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 2:29 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	55002	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	29552	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	51282	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	43576	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	48263	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	14887	37.4263365 ppb	-0.06
Spiked Amount 2.000	Range 45 - 170		Recovery = 1871.32%#		
7) 2-Fluorobiphenyl	6.71	172	36112	38.9818540 ppb	-0.02
Spiked Amount 2.000	Range 58 - 153		Recovery = 1949.09%#		
19) p-Terphenyl-d14	10.56	244	37905	36.8890386 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1844.45%#		

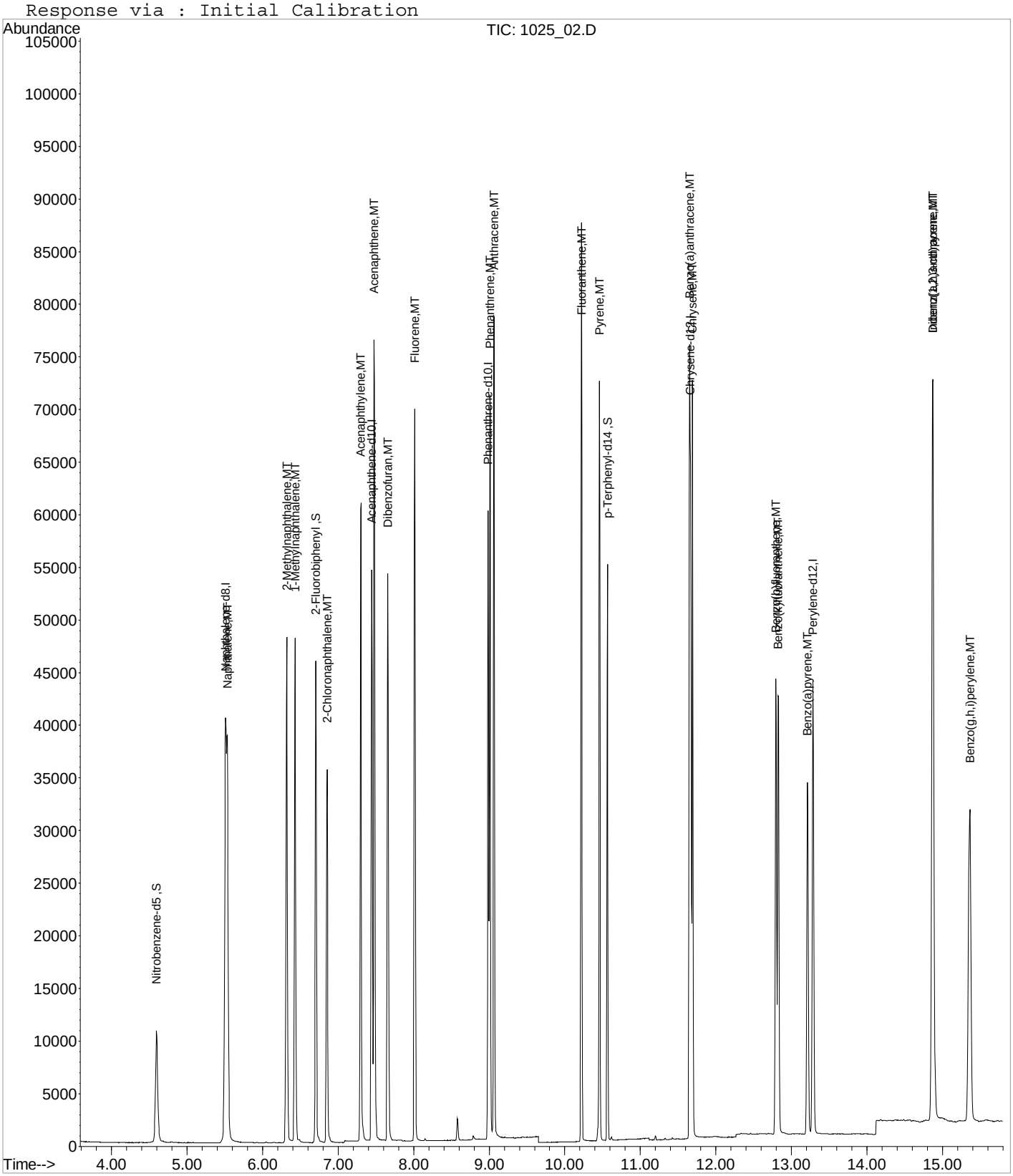
Target Compounds						Qvalue
3) Naphthalene	5.53	128	50543	35.5276766 ppb		100
4) 2-Methylnaphthalene	6.32	142	33529	37.1742985 ppb		94
5) 1-Methylnaphthalene	6.43	142	30348	36.1307949 ppb		98
8) 2-Chloronaphthalene	6.86	162	29248	37.8160031 ppb		95
9) Acenaphthylene	7.30	152	50165	40.7836891 ppb		97
10) Acenaphthene	7.48	153	32404	39.0719445 ppb		98
11) Dibenzofuran	7.66	168	42536	39.0260103 ppb		84
12) Fluorene	8.01	166	37946	40.4996031 ppb		95
14) Phenanthrene	9.01	178	52211	37.4300024 ppb		100
15) Anthracene	9.06	178	54500	40.6811797 ppb		99
16) Fluoranthene	10.22	202	55667	39.6499954 ppb		100
18) Pyrene	10.46	202	49590	37.3474029 ppb		99
20) Benzo(a)anthracene	11.65	228	46869	40.0103660 ppb		99
21) Chrysene	11.69	228	43825	38.4761884 ppb		98
23) Benzo(b)fluoranthene	12.79	252	45231	34.0465099 ppb		96
24) Benzo(k)fluoranthene	12.82	252	41632	33.8692797 ppb		95
25) Benzo(a)pyrene	13.21	252	38419	35.6748954 ppb		99
26) Indeno(1,2,3-cd)pyrene	14.87	276	50040	37.4947460 ppb	#	83
27) Dibenz(a,h)anthracene	14.87	278	42595	37.5965605 ppb	#	92
28) Benzo(g,h,i)perylene	15.36	276	42125	36.9700859 ppb		57

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 02.D Vial: 3
Acq On : 25 Oct 2014 2:11 am Operator: 280
Sample : ICV SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 2:29 2014 Quant Results File: SS07J22N.RES

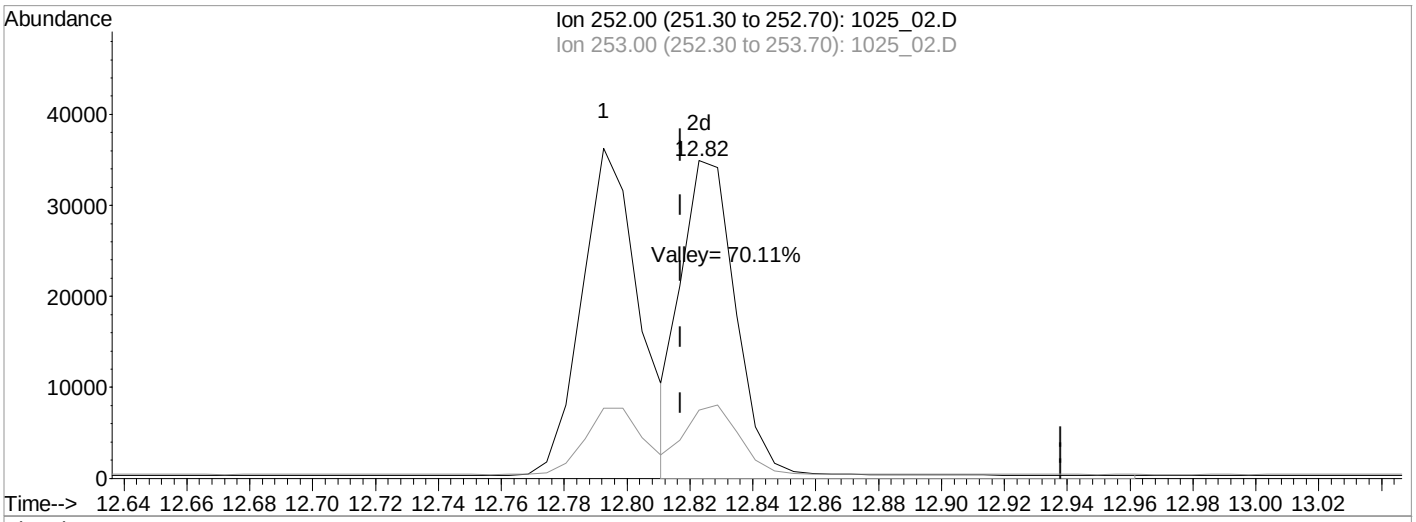
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

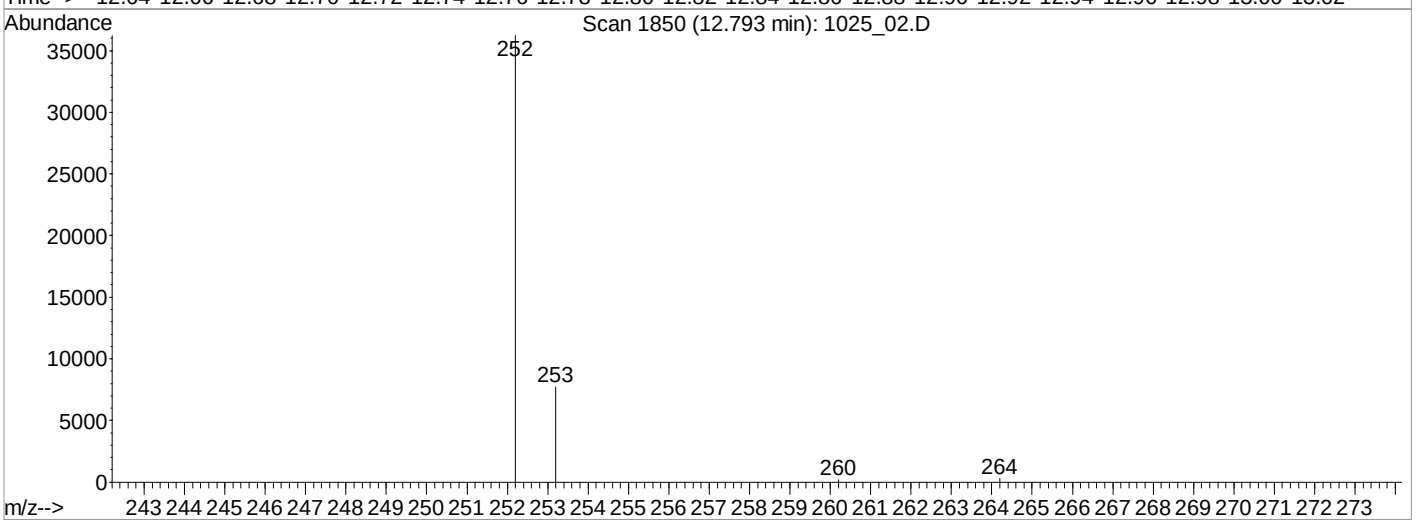


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102514\1025 02.D Vial: 3
Acq On : 25 Oct 2014 2:11 am Operator: 280
Sample : ICV SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 2:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1025_02.D

(23) Benzo(b)fluoranthene (MT)

12.79min (-0.024) 34.0465099 ppb

Qvalue = 96

response 45231

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	20.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 03.D Vial: 36
Acq On : 25 Oct 2014 2:35 am Operator: 280
Sample : LCS 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 4:30 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	46761	40.00 ppb	-0.04
6) Acenaphthene-d10	7.45	164	24996	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	42102	40.00 ppb	0.00
17) Chrysene-d12	11.67	240	35811	40.00 ppb	-0.01
22) Perylene-d12	13.29	264	39822	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.59	82	12862	76.0682319 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 91.32%		
7) 2-Fluorobiphenyl	6.71	172	31105	79.3939688 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 95.31%		
19) p-Terphenyl-d14	10.56	244	34033	80.6049993 ppb	0.00
Spiked Amount 83.300	Range 34 - 141		Recovery = 96.76%		

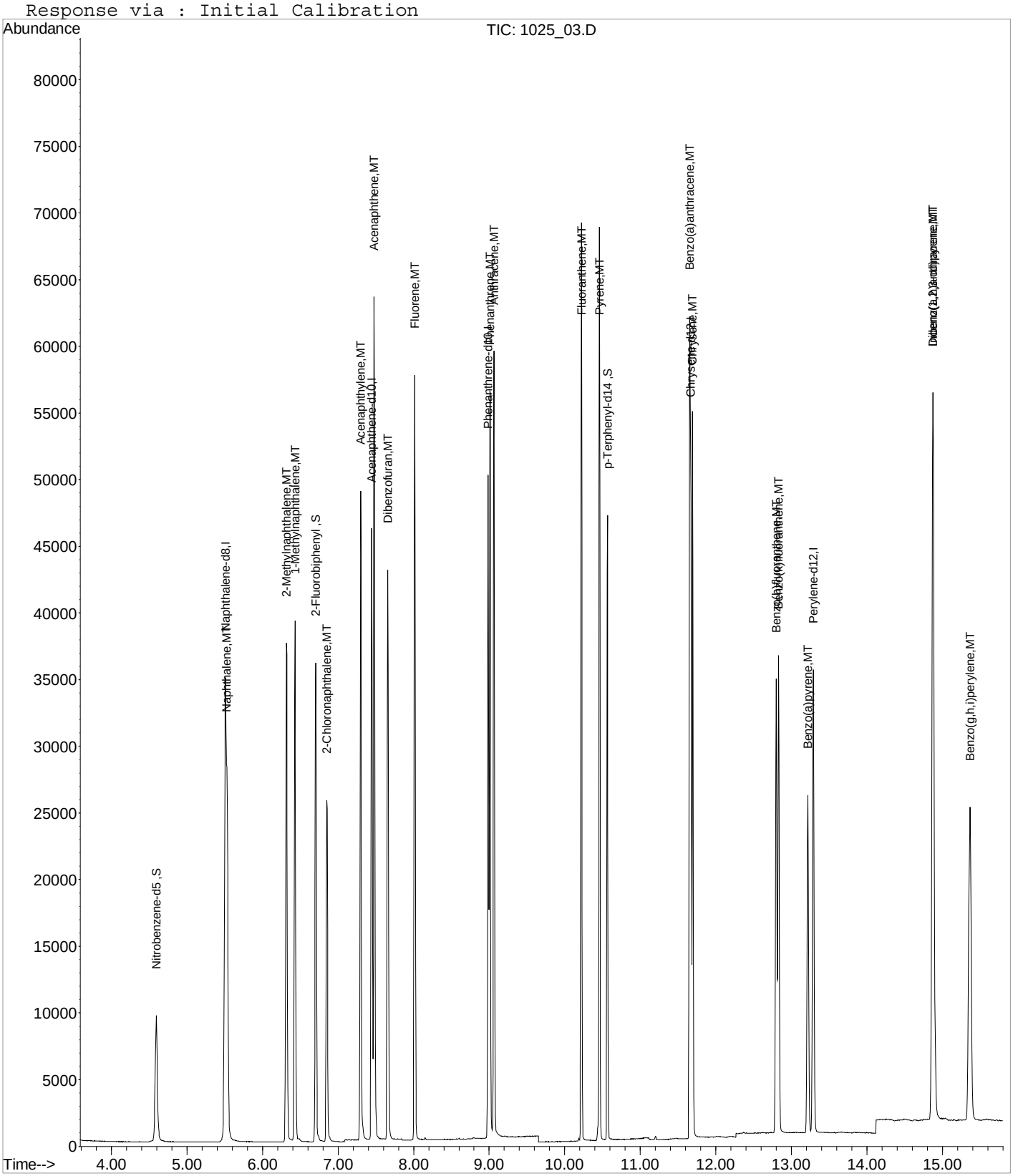
Target Compounds					Qvalue
3) Naphthalene	5.53	128	36315	60.0504859 ppb	99
4) 2-Methylnaphthalene	6.32	142	26285	68.5574806 ppb	93
5) 1-Methylnaphthalene	6.43	142	24693	69.1585667 ppb	95
8) 2-Chloronaphthalene	6.86	162	22133	67.6653127 ppb	92
9) Acenaphthylene	7.30	152	39564	76.0557830 ppb	99
10) Acenaphthene	7.48	153	25803	73.5669857 ppb	97
11) Dibenzofuran	7.66	168	34392	74.6107314 ppb	81
12) Fluorene	8.01	166	30189	76.1868206 ppb	98
14) Phenanthrene	9.01	178	41751	72.9150115 ppb	96
15) Anthracene	9.06	178	43266	78.6748648 ppb	98
16) Fluoranthene	10.22	202	44323	76.9071460 ppb	99
18) Pyrene	10.46	202	45231	82.9016925 ppb	99
20) Benzo(a)anthracene	11.65	228	37559	78.0300287 ppb	98
21) Chrysene	11.69	228	34344	73.3807088 ppb	99
23) Benzo(b)fluoranthene	12.80	252	34160	62.3268981 ppb	99
24) Benzo(k)fluoranthene	12.83	252	34946	68.9124038 ppb	96
25) Benzo(a)pyrene	13.21	252	29194	65.7100045 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.87	276	40020	72.6861123 ppb	83
27) Dibenz(a,h)anthracene	14.87	278	34107	72.9716649 ppb #	91
28) Benzo(g,h,i)perylene	15.36	276	33806	71.9160084 ppb	56

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 03.D Vial: 36
Acq On : 25 Oct 2014 2:35 am Operator: 280
Sample : LCS 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 4:30 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 04.D Vial: 37
Acq On : 25 Oct 2014 2:58 am Operator: 280
Sample : LCSD 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 4:31 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	44480	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	23811	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	40341	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	33781	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	37853	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	12745	79.2416788 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 95.13%		
7) 2-Fluorobiphenyl	6.71	172	30327	81.2605278 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 97.55%		
19) p-Terphenyl-d14	10.56	244	33180	83.3071109 ppb	0.00
Spiked Amount 83.300	Range 34 - 141		Recovery = 100.01%		

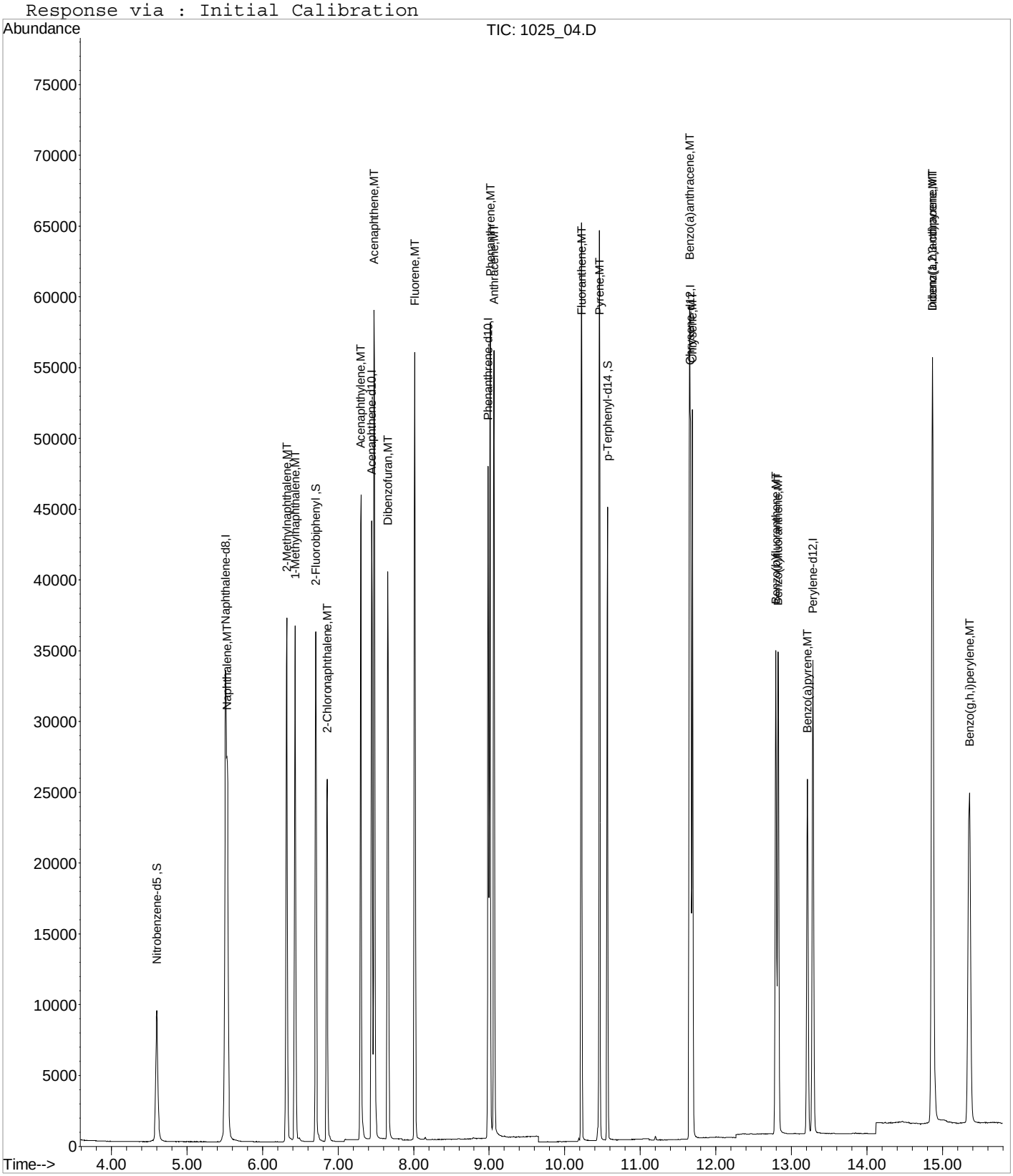
Target Compounds					Qvalue
3) Naphthalene	5.54	128	34975	60.8005086 ppb	100
4) 2-Methylnaphthalene	6.32	142	25316	69.4162209 ppb	95
5) 1-Methylnaphthalene	6.43	142	23730	69.8696999 ppb	99
8) 2-Chloronaphthalene	6.86	162	21276	68.2823834 ppb	95
9) Acenaphthylene	7.30	152	37742	76.1640167 ppb	97
10) Acenaphthene	7.48	153	24648	73.7712812 ppb	97
11) Dibenzofuran	7.66	168	33120	75.4270416 ppb	82
12) Fluorene	8.01	166	29142	77.2046320 ppb	98
14) Phenanthrene	9.01	178	40485	73.7904701 ppb	97
15) Anthracene	9.06	178	42032	79.7673899 ppb	98
16) Fluoranthene	10.22	202	43073	78.0007423 ppb	100
18) Pyrene	10.46	202	43756	85.0175858 ppb	100
20) Benzo(a)anthracene	11.65	228	36070	79.4397438 ppb	99
21) Chrysene	11.69	228	33716	76.3679301 ppb	97
23) Benzo(b)fluoranthene	12.79	252	35683	68.4923038 ppb	98
24) Benzo(k)fluoranthene	12.82	252	31371	65.0805258 ppb	96
25) Benzo(a)pyrene	13.21	252	28302	67.0158890 ppb	100
26) Indeno(1,2,3-cd)pyrene	14.87	276	39167	74.8371823 ppb	83
27) Dibenz(a,h)anthracene	14.87	278	33231	74.7957477 ppb #	92
28) Benzo(g,h,i)perylene	15.35	276	33001	73.8552973 ppb	56

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 04.D Vial: 37
Acq On : 25 Oct 2014 2:58 am Operator: 280
Sample : LCSD 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 4:31 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 05.D Vial: 38
Acq On : 25 Oct 2014 3:21 am Operator: 280
Sample : BLANK 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:09 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	46989	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	25056	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	41853	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	34342	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	38332	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	12302	72.4032610 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 86.92%		
7) 2-Fluorobiphenyl	6.71	172	29941	76.2399115 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 91.52%		
19) p-Terphenyl-d14	10.56	244	32240	79.6246695 ppb	0.00
Spiked Amount 83.300	Range 34 - 141		Recovery = 95.59%		

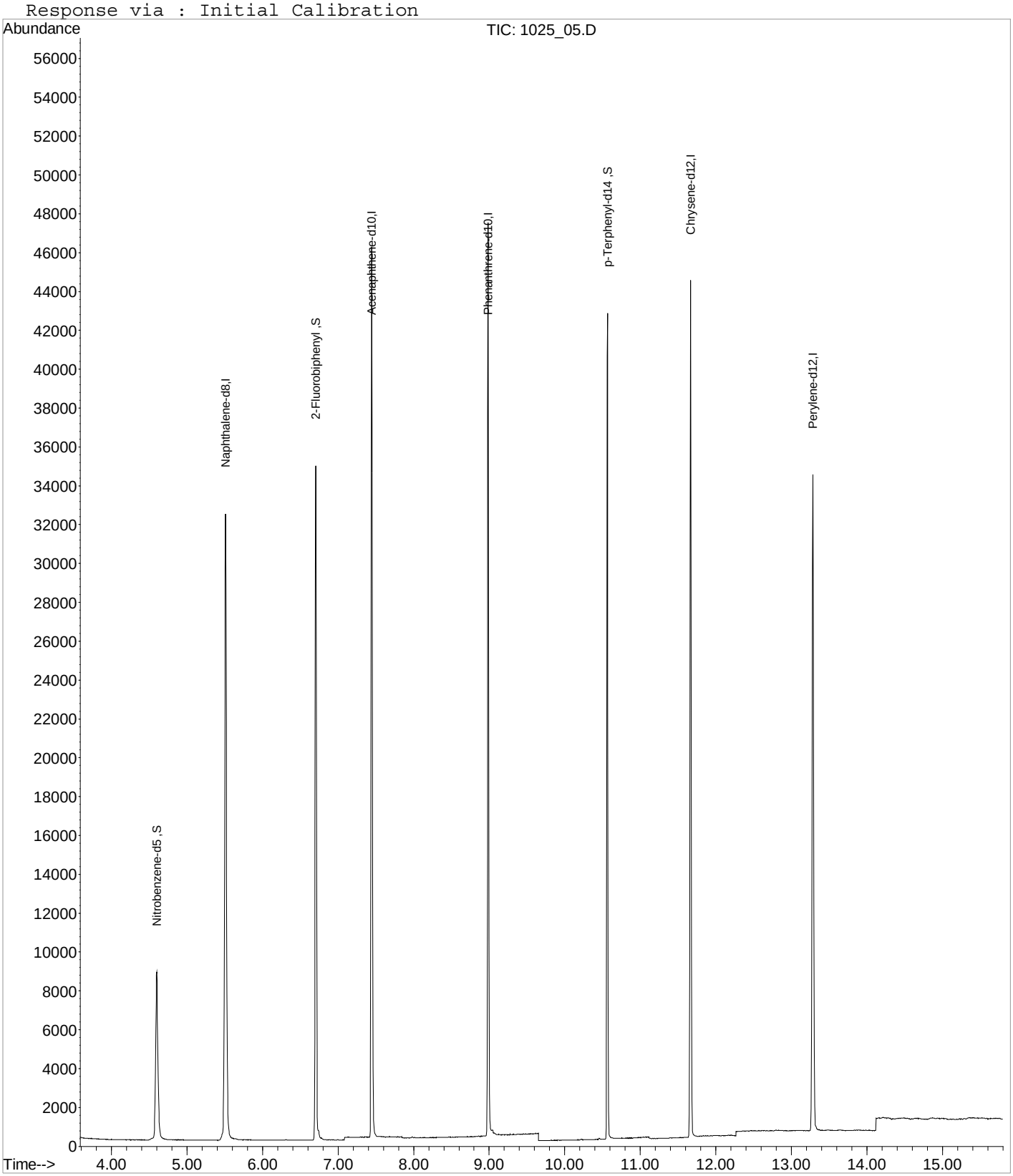
Target Compounds					Qvalue
3) Naphthalene	5.53	128	567	0.9330419 ppb	97
4) 2-Methylnaphthalene	6.31	142	24	N.D.	
5) 1-Methylnaphthalene	6.44	142	19	N.D.	
8) 2-Chloronaphthalene	6.85	162	3	N.D.	
9) Acenaphthylene	7.39	152	6	N.D.	
10) Acenaphthene	7.48	153	8	N.D.	
11) Dibenzofuran	0.00	168	0	N.D.	
12) Fluorene	7.85	166	52	N.D.	
14) Phenanthrene	9.01	178	46	N.D.	
15) Anthracene	9.06	178	31	N.D.	
16) Fluoranthene	10.22	202	34	N.D.	
18) Pyrene	10.46	202	46	N.D.	
20) Benzo(a)anthracene	11.66	228	141	N.D.	
21) Chrysene	11.69	228	22	N.D.	
23) Benzo(b)fluoranthene	12.80	252	45	N.D.	
24) Benzo(k)fluoranthene	12.82	252	49	N.D.	
25) Benzo(a)pyrene	13.17	252	7	N.D.	
26) Indeno(1,2,3-cd)pyrene	14.70	276	12	N.D.	
27) Dibenz(a,h)anthracene	14.87	278	56	N.D.	
28) Benzo(g,h,i)perylene	15.42	276	21	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 05.D Vial: 38
Acq On : 25 Oct 2014 3:21 am Operator: 280
Sample : BLANK 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:09 2014 Quant Results File: SS07J22N.RES

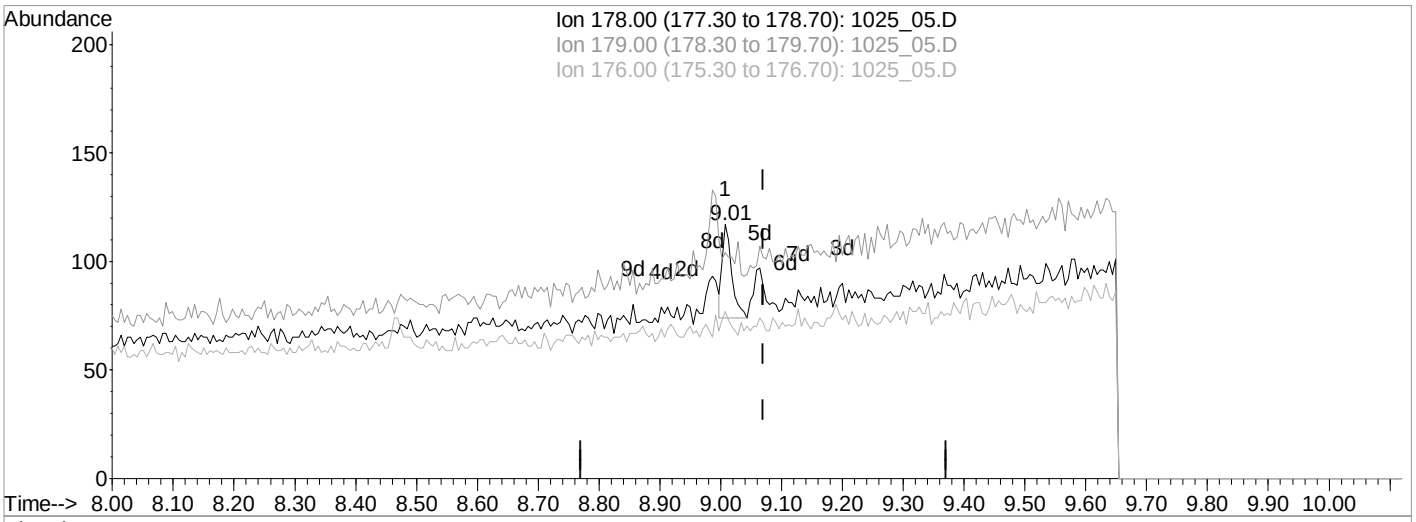
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

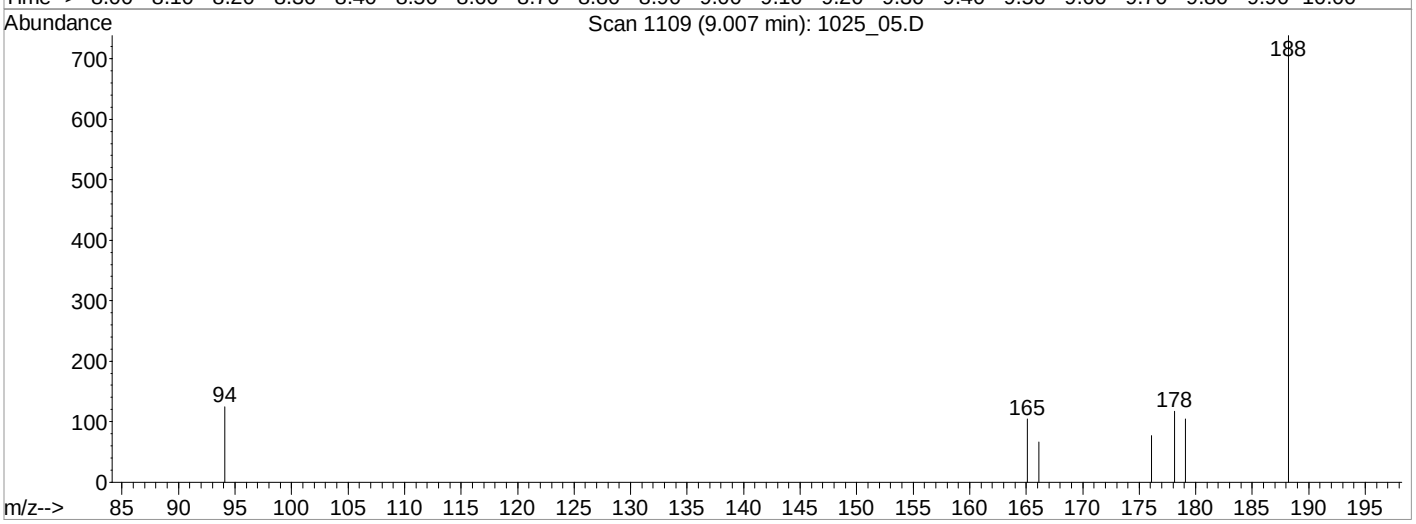


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102514\1025 05.D Vial: 38
Acq On : 25 Oct 2014 3:21 am Operator: 280
Sample : BLANK 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 4:31 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1025_05.D

(15) Anthracene (MT)

9.01min (-0.063) 0.0841440 ppb

Qvalue = 88

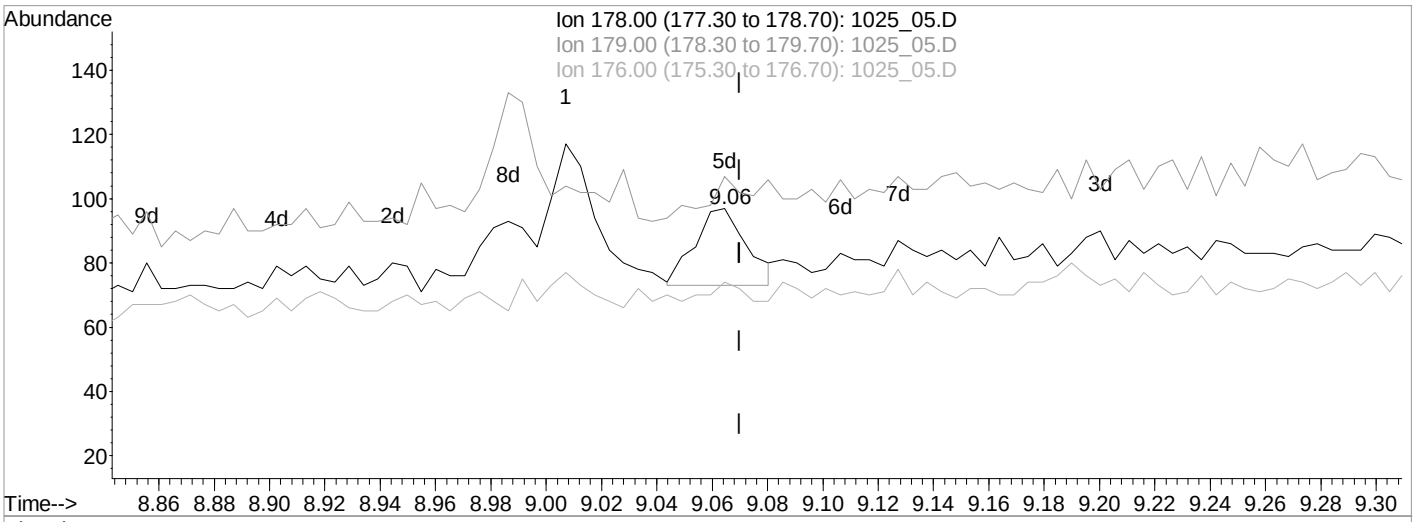
response 46

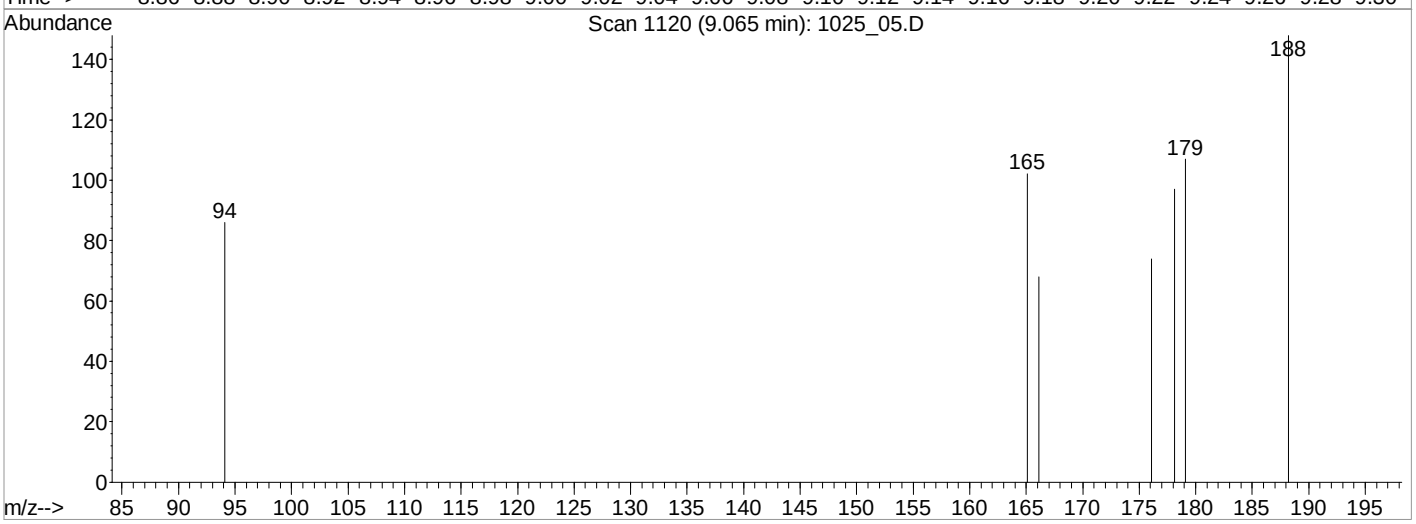
Ion	Exp%	Act%
178.00	100	100
179.00	15.30	23.26
176.00	17.90	20.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102514\1025 05.D Vial: 38
Acq On : 25 Oct 2014 3:21 am Operator: 280
Sample : BLANK 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1025_05.D

(15) Anthracene (MT)

9.06min (-0.005) 0.0567057 ppb m

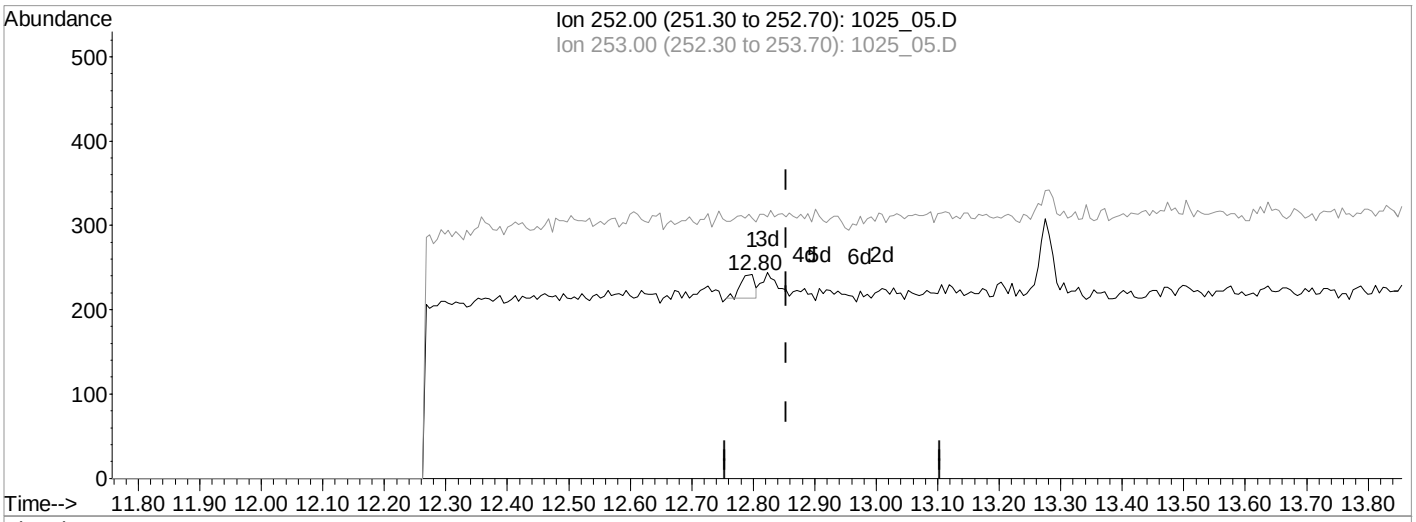
response 31

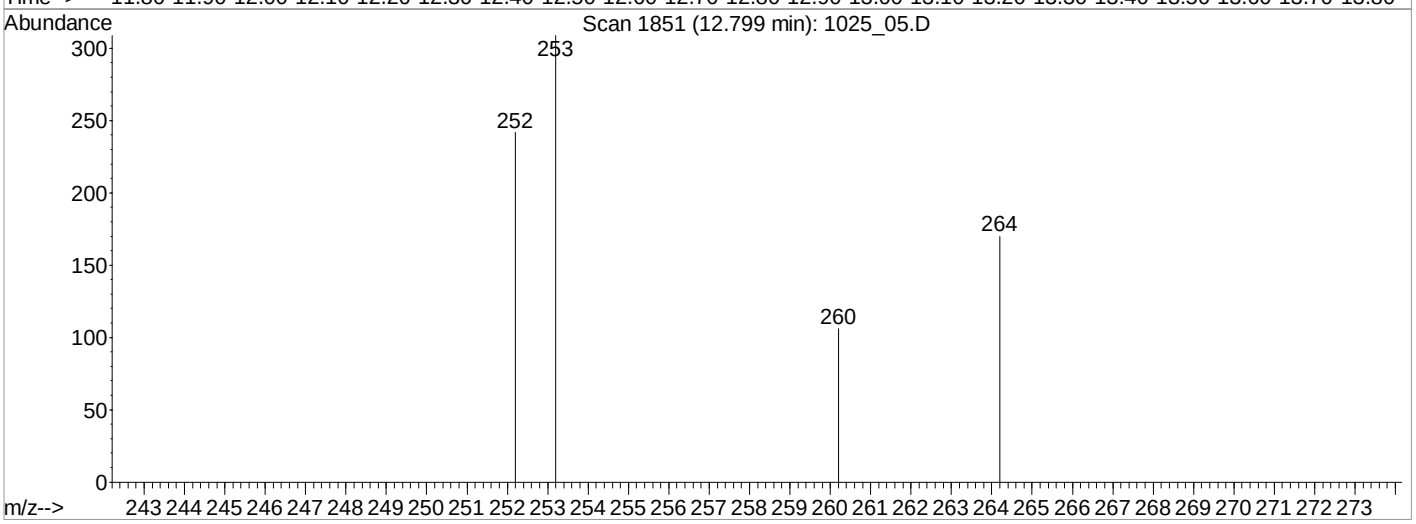
Ion	Exp%	Act%
178.00	100	100
179.00	15.30	110.31#
176.00	17.90	76.29#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102514\1025 05.D Vial: 38
Acq On : 25 Oct 2014 3:21 am Operator: 280
Sample : BLANK 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1025_05.D

(24) Benzo(k)fluoranthene (MT)

12.80min (-0.054) 0.0921879 ppb

Qvalue = 90

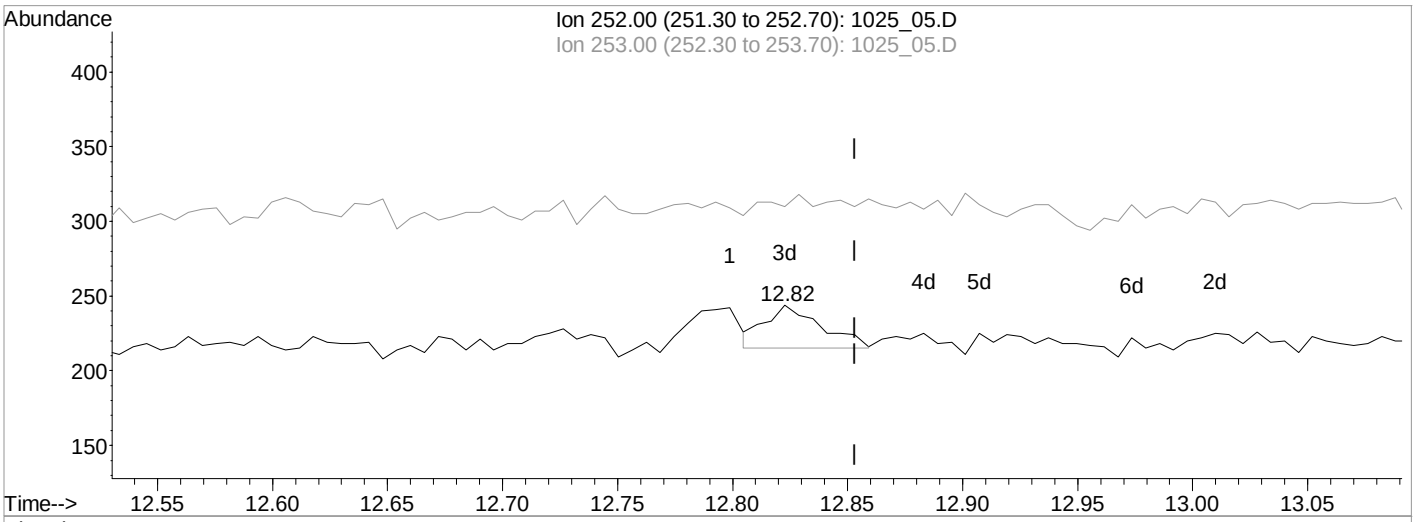
response 45

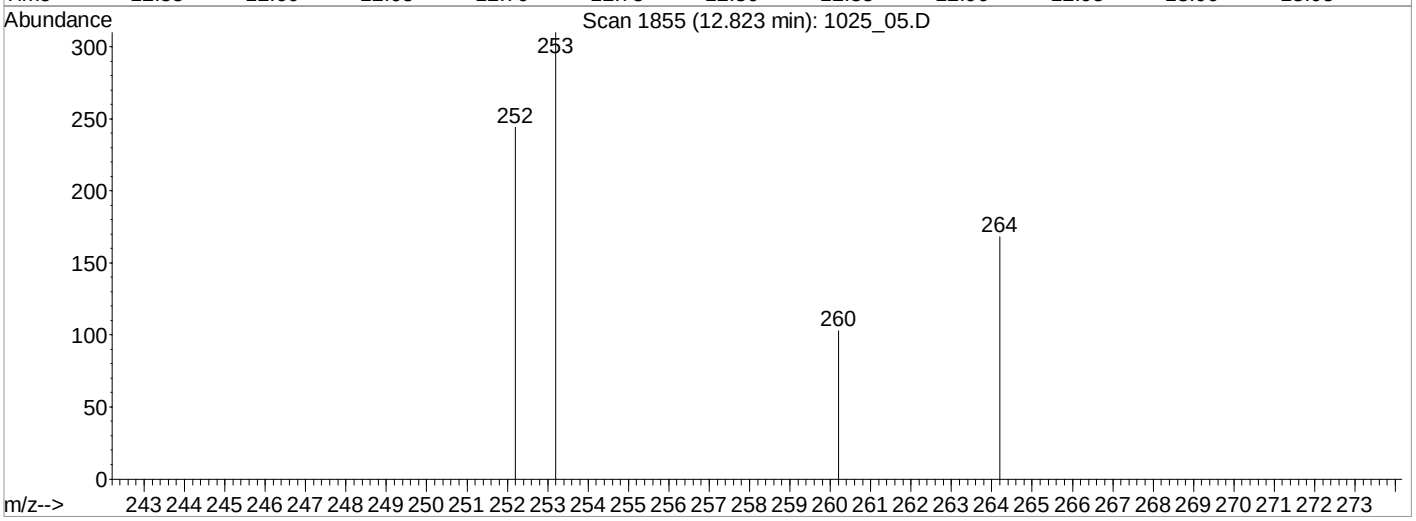
Ion	Exp%	Act%
252.00	100	100
253.00	22.90	17.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102514\1025 05.D Vial: 38
Acq On : 25 Oct 2014 3:21 am Operator: 280
Sample : BLANK 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1025_05.D

(24) Benzo(k)fluoranthene (MT)

12.82min (-0.030) 0.1003824 ppb m

response 49

Ion	Exp%	Act%
252.00	100	100
253.00	22.90	127.05#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 15.D Vial: 48
Acq On : 25 Oct 2014 7:10 am Operator: 280
Sample : MS 1x WG750213 L729021-02 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:10 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	41795	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	22411	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	37655	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	32682	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	36327	40.00 ppb	-0.04

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	10049	66.4931831 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 79.82%		
7) 2-Fluorobiphenyl	6.71	172	24013	68.3617242 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 82.07%		
19) p-Terphenyl-d14	10.56	244	26757	69.4395641 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 83.36%		

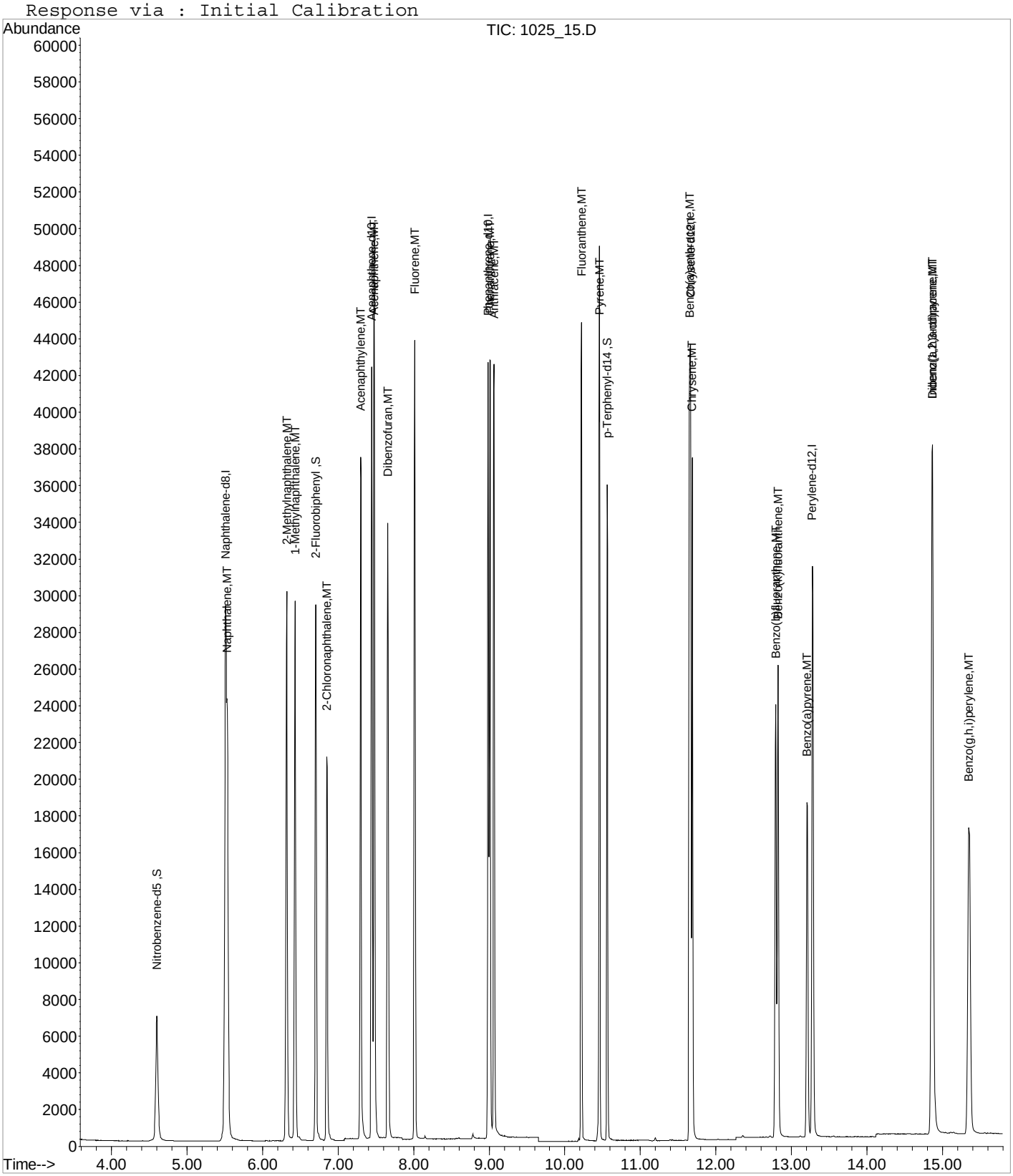
Target Compounds					Qvalue
3) Naphthalene	5.53	128	29878	55.2766177 ppb	99
4) 2-Methylnaphthalene	6.32	142	20874	60.9132831 ppb	95
5) 1-Methylnaphthalene	6.43	142	19883	62.3036516 ppb	98
8) 2-Chloronaphthalene	6.86	162	18051	61.5511761 ppb	90
9) Acenaphthylene	7.30	152	31291	67.0904603 ppb	99
10) Acenaphthene	7.48	153	20359	64.7408627 ppb	98
11) Dibenzofuran	7.66	168	27373	66.2331703 ppb	83
12) Fluorene	8.01	166	23514	66.1861191 ppb	98
14) Phenanthrene	9.01	178	32095	62.6711294 ppb	97
15) Anthracene	9.06	178	32826	66.7401686 ppb	98
16) Fluoranthene	10.22	202	31368	60.8561469 ppb	99
18) Pyrene	10.46	202	32279	64.8268773 ppb	99
20) Benzo(a)anthracene	11.65	228	25923	59.0120672 ppb	96
21) Chrysene	11.69	228	24549	57.4741631 ppb	97
23) Benzo(b)fluoranthene	12.79	252	24593	49.1883999 ppb	100
24) Benzo(k)fluoranthene	12.82	252	24592	53.1602863 ppb	98
25) Benzo(a)pyrene	13.20	252	21520	53.0974536 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.86	276	28870	57.4797240 ppb #	81
27) Dibenz(a,h)anthracene	14.87	278	24387	57.1956035 ppb	91
28) Benzo(g,h,i)perylene	15.35	276	24117	56.2404264 ppb	54

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 15.D Vial: 48
Acq On : 25 Oct 2014 7:10 am Operator: 280
Sample : MS 1x WG750213 L729021-02 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:10 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 16.D Vial: 49
Acq On : 25 Oct 2014 7:33 am Operator: 280
Sample : MSD 1x WG750213 L729021-02 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:10 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	42296	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	22572	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	37568	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	32242	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	36314	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	10751	70.2956047 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 84.39%		
7) 2-Fluorobiphenyl	6.71	172	24633	69.6265839 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 83.59%		
19) p-Terphenyl-d14	10.56	244	24021	63.1898469 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 75.86%		

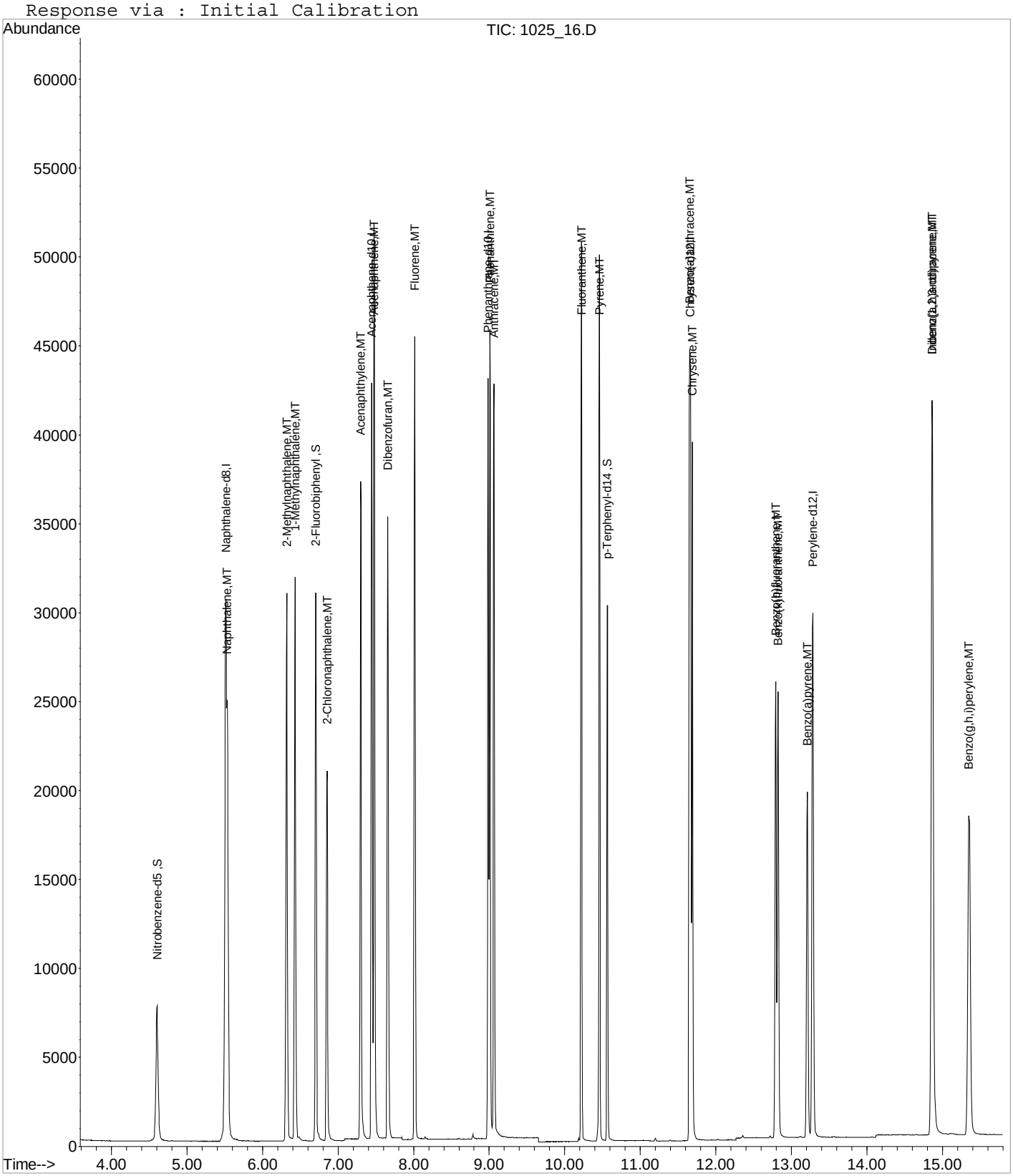
Target Compounds					Qvalue
3) Naphthalene	5.53	128	30788	56.2854896 ppb	99
4) 2-Methylnaphthalene	6.32	142	21349	61.5614581 ppb	96
5) 1-Methylnaphthalene	6.43	142	20408	63.1912674 ppb	97
8) 2-Chloronaphthalene	6.86	162	17991	60.9090165 ppb	95
9) Acenaphthylene	7.30	152	31359	66.7566797 ppb	99
10) Acenaphthene	7.48	153	20789	65.6367144 ppb	98
11) Dibenzofuran	7.66	168	27286	65.5517386 ppb	84
12) Fluorene	8.01	166	23682	66.1835371 ppb	98
14) Phenanthrene	9.01	178	32420	63.4523526 ppb	100
15) Anthracene	9.06	178	33449	68.1643110 ppb	98
16) Fluoranthene	10.22	202	32419	63.0408142 ppb	99
18) Pyrene	10.46	202	33210	67.6068277 ppb	100
20) Benzo(a)anthracene	11.65	228	26845	61.9449104 ppb	94
21) Chrysene	11.69	228	25540	60.6102946 ppb	95
23) Benzo(b)fluoranthene	12.79	252	25549	51.1187866 ppb	99
24) Benzo(k)fluoranthene	12.82	252	25824	55.8434728 ppb	98
25) Benzo(a)pyrene	13.21	252	22533	55.6167861 ppb	100
26) Indeno(1,2,3-cd)pyrene	14.86	276	30306	60.3603784 ppb	84
27) Dibenz(a,h)anthracene	14.87	278	25715	60.3317943 ppb	89
28) Benzo(g,h,i)perylene	15.35	276	25161	58.6960213 ppb	53

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 16.D Vial: 49
Acq On : 25 Oct 2014 7:33 am Operator: 280
Sample : MSD 1x WG750213 L729021-02 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:10 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 21.D Vial: 54
Acq On : 25 Oct 2014 9:27 am Operator: 280
Sample : L729026-01 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:35 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	43525	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	22911	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	38150	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	31899	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	36281	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	10102	64.1870167 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 77.06%		
7) 2-Fluorobiphenyl	6.71	172	24628	68.5824384 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 82.33%		
19) p-Terphenyl-d14	10.56	244	25810	68.6260700 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 82.38%		

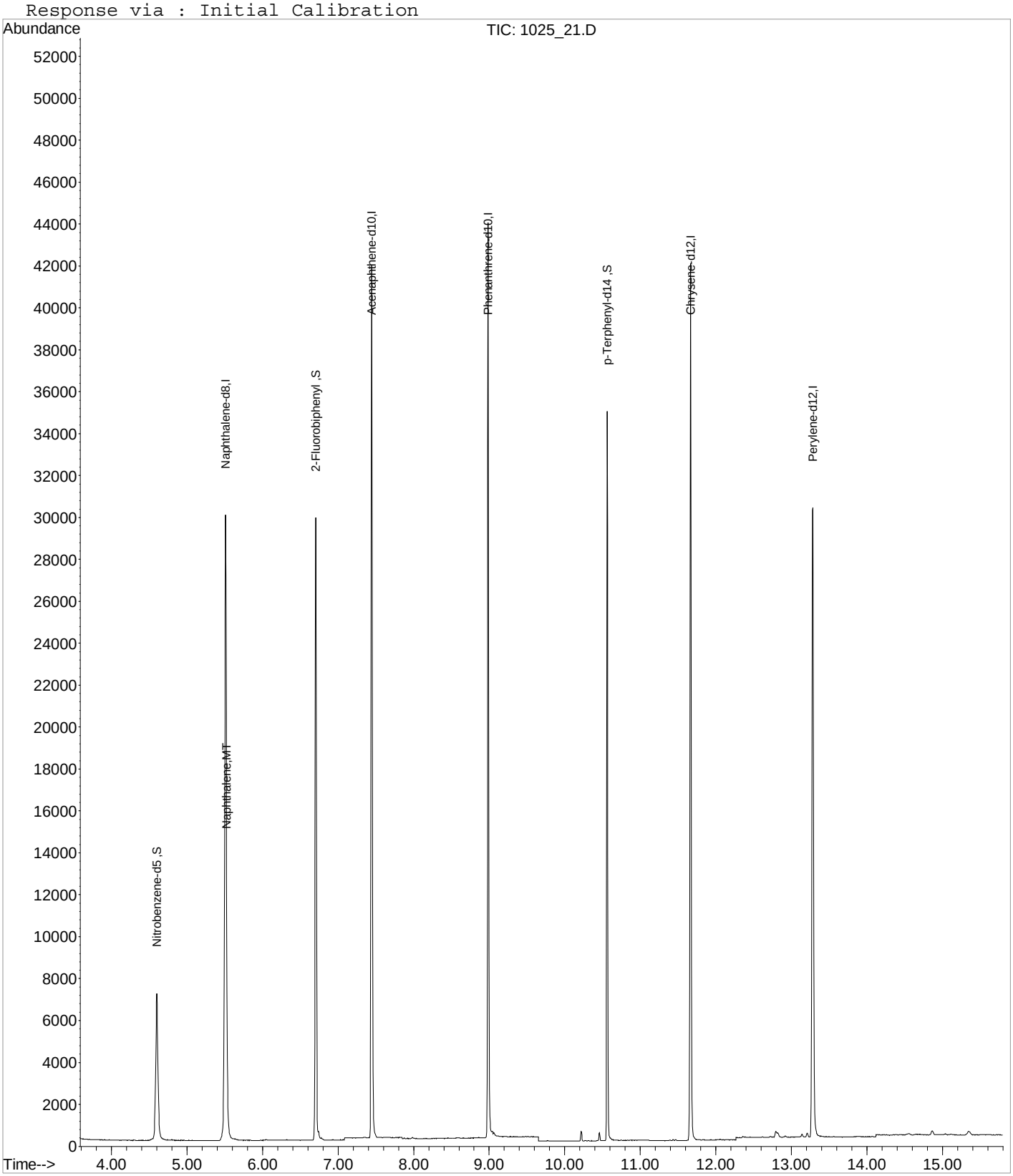
Target Compounds					Qvalue
3) Naphthalene	5.53	128	1145	2.0341406 ppb	99
4) 2-Methylnaphthalene	6.32	142	26	N.D.	
5) 1-Methylnaphthalene	6.43	142	12	N.D.	
8) 2-Chloronaphthalene	6.86	162	2	N.D.	
9) Acenaphthylene	7.34	152	44	N.D.	
10) Acenaphthene	7.32	153	3	N.D.	
11) Dibenzofuran	7.66	168	18	N.D.	
12) Fluorene	7.87	166	107	N.D.	
14) Phenanthrene	9.01	178	158	N.D.	
15) Anthracene	9.06	178	81	N.D.	
16) Fluoranthene	10.22	202	333	0.6376612 ppb	97
18) Pyrene	10.46	202	294	0.6049423 ppb	97
20) Benzo(a)anthracene	11.65	228	420	0.9795721 ppb	97
21) Chrysene	11.69	228	257	0.6164581 ppb	97
23) Benzo(b)fluoranthene	12.79	252	402m	0.8050587 ppb	
24) Benzo(k)fluoranthene	12.82	252	177	N.D.	
25) Benzo(a)pyrene	13.21	252	236	N.D.	
26) Indeno(1,2,3-cd)pyrene	14.86	276	223	N.D.	
27) Dibenz(a,h)anthracene	14.87	278	66	N.D.	
28) Benzo(g,h,i)perylene	15.35	276	193	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 21.D Vial: 54
Acq On : 25 Oct 2014 9:27 am Operator: 280
Sample : L729026-01 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:35 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 22.D Vial: 55
Acq On : 25 Oct 2014 9:50 am Operator: 280
Sample : L729026-02 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:10 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	42558	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	22506	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	36955	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	30952	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	35172	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	10824	70.3372169 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 84.44%		
7) 2-Fluorobiphenyl	6.71	172	25750	72.9972907 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 87.63%		
19) p-Terphenyl-d14	10.56	244	26728	73.2412823 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 87.92%		

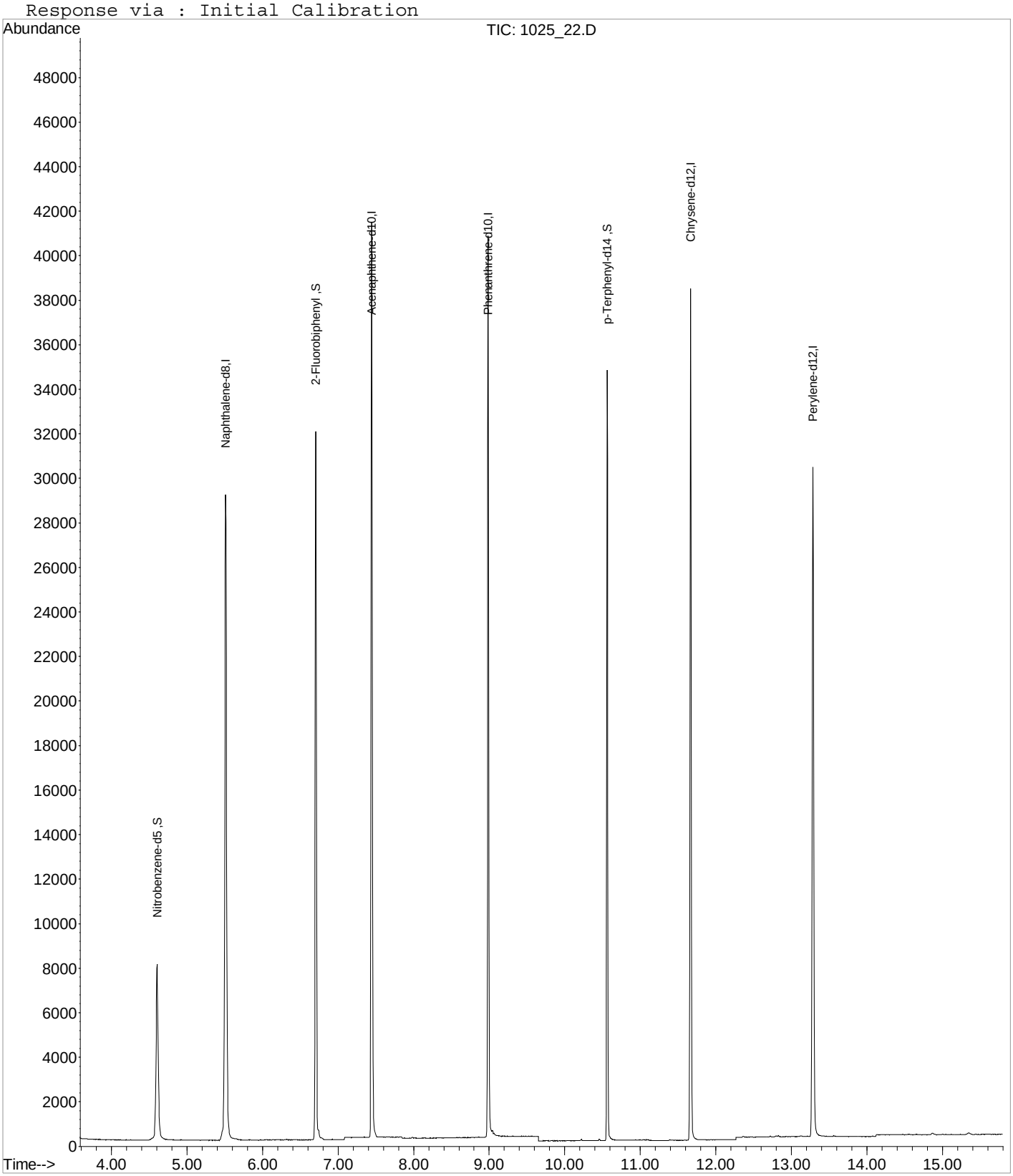
Target Compounds					Qvalue
3) Naphthalene	5.54	128	544	0.9883982 ppb	99
4) 2-Methylnaphthalene	6.32	142	23	N.D.	
5) 1-Methylnaphthalene	6.32	142	23	N.D.	
8) 2-Chloronaphthalene	6.76	162	1	N.D.	
9) Acenaphthylene	7.35	152	15	N.D.	
10) Acenaphthene	7.51	153	2	N.D.	
11) Dibenzofuran	0.00	168	0	N.D.	
12) Fluorene	7.85	166	45	N.D.	
14) Phenanthrene	9.01	178	53	N.D.	
15) Anthracene	9.01	178	58	N.D.	
16) Fluoranthene	10.22	202	41	N.D.	
18) Pyrene	10.45	202	57	N.D.	
20) Benzo(a)anthracene	11.66	228	131	N.D.	
21) Chrysene	11.69	228	41	N.D.	
23) Benzo(b)fluoranthene	12.79	252	61	N.D.	
24) Benzo(k)fluoranthene	12.82	252	43	N.D.	
25) Benzo(a)pyrene	13.28	252	137	N.D.	
26) Indeno(1,2,3-cd)pyrene	14.87	276	70	N.D.	
27) Dibenz(a,h)anthracene	14.88	278	44	N.D.	
28) Benzo(g,h,i)perylene	15.35	276	69	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 22.D Vial: 55
Acq On : 25 Oct 2014 9:50 am Operator: 280
Sample : L729026-02 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:10 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 23.D Vial: 56
Acq On : 25 Oct 2014 10:13 am Operator: 280
Sample : L729026-03 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:35 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	41764	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	22194	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	36289	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	30604	40.00 ppb	-0.02
22) Perylene-d12	13.29	264	34400	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	10337	68.4496191 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 82.17%		
7) 2-Fluorobiphenyl	6.71	172	25173	72.3647751 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 86.87%		
19) p-Terphenyl-d14	10.56	244	25579	70.8897691 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 85.10%		

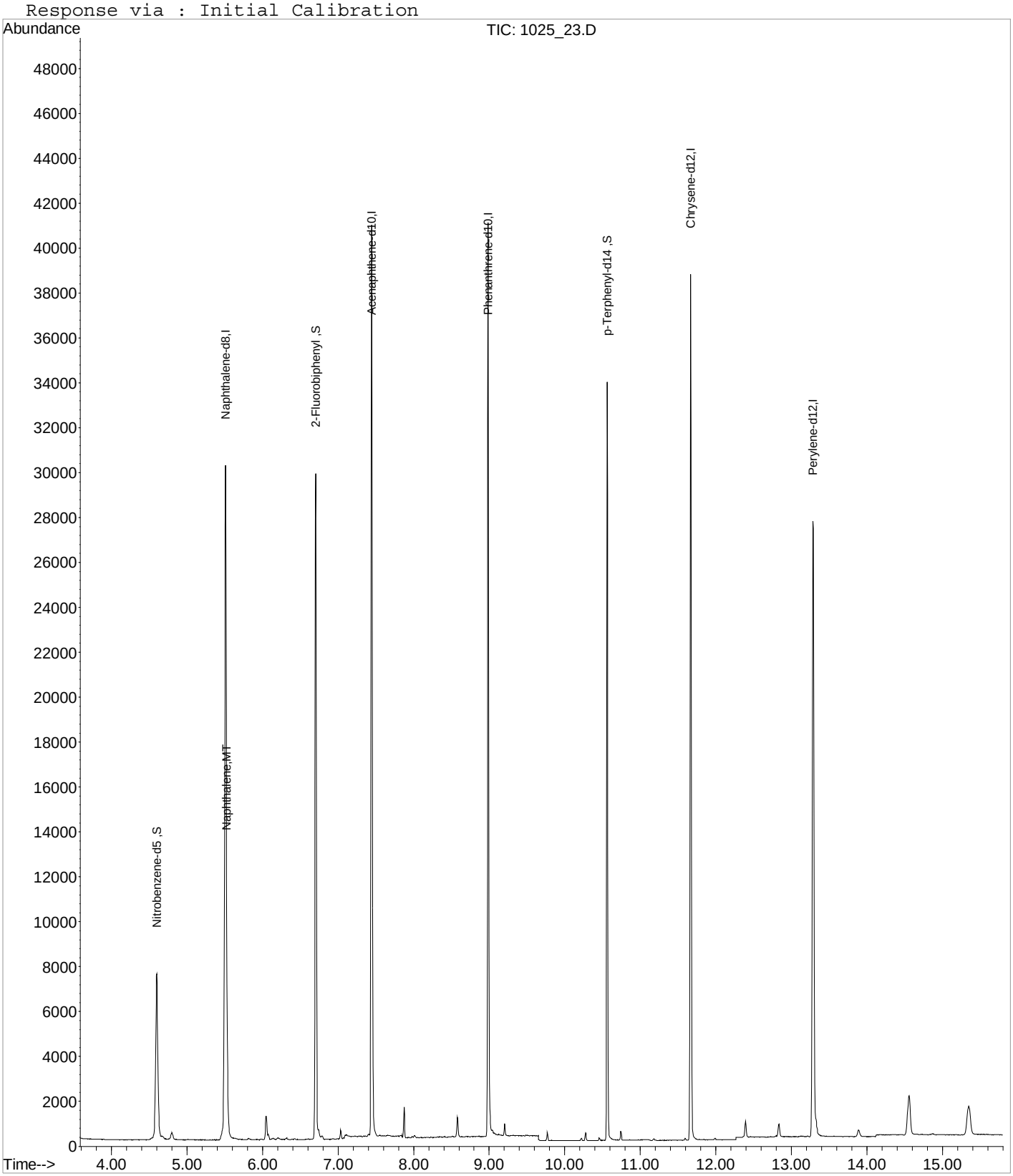
Target Compounds					Qvalue
3) Naphthalene	5.53	128	2610	4.8322866 ppb	98
4) 2-Methylnaphthalene	6.32	142	62	N.D.	
5) 1-Methylnaphthalene	6.32	142	62	N.D.	
8) 2-Chloronaphthalene	6.87	162	7	N.D.	
9) Acenaphthylene	7.27	152	4	N.D.	
10) Acenaphthene	7.46	153	79	N.D.	
11) Dibenzofuran	7.66	168	66	N.D.	
12) Fluorene	8.01	166	65	N.D.	
14) Phenanthrene	9.01	178	374	0.7577909 ppb	98
15) Anthracene	9.06	178	25	N.D.	
16) Fluoranthene	10.22	202	74	N.D.	
18) Pyrene	10.45	202	89	N.D.	
20) Benzo(a)anthracene	11.66	228	139	N.D.	
21) Chrysene	11.69	228	57	N.D.	
23) Benzo(b)fluoranthene	12.80	252	66	N.D.	
24) Benzo(k)fluoranthene	12.80	252	66	N.D.	
25) Benzo(a)pyrene	13.21	252	36	N.D.	
26) Indeno(1,2,3-cd)pyrene	14.87	276	60	N.D.	
27) Dibenz(a,h)anthracene	15.13	278	4	N.D.	
28) Benzo(g,h,i)perylene	15.36	276	96	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 23.D Vial: 56
Acq On : 25 Oct 2014 10:13 am Operator: 280
Sample : L729026-03 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:35 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 24.D Vial: 57
Acq On : 25 Oct 2014 10:36 am Operator: 280
Sample : L729026-05 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:10 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	42380	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	22406	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	36909	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	31721	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	35407	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	10159	66.2931438 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 79.58%		
7) 2-Fluorobiphenyl	6.71	172	25187	71.7199426 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 86.10%		
19) p-Terphenyl-d14	10.56	244	26121	69.8427165 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 83.84%		

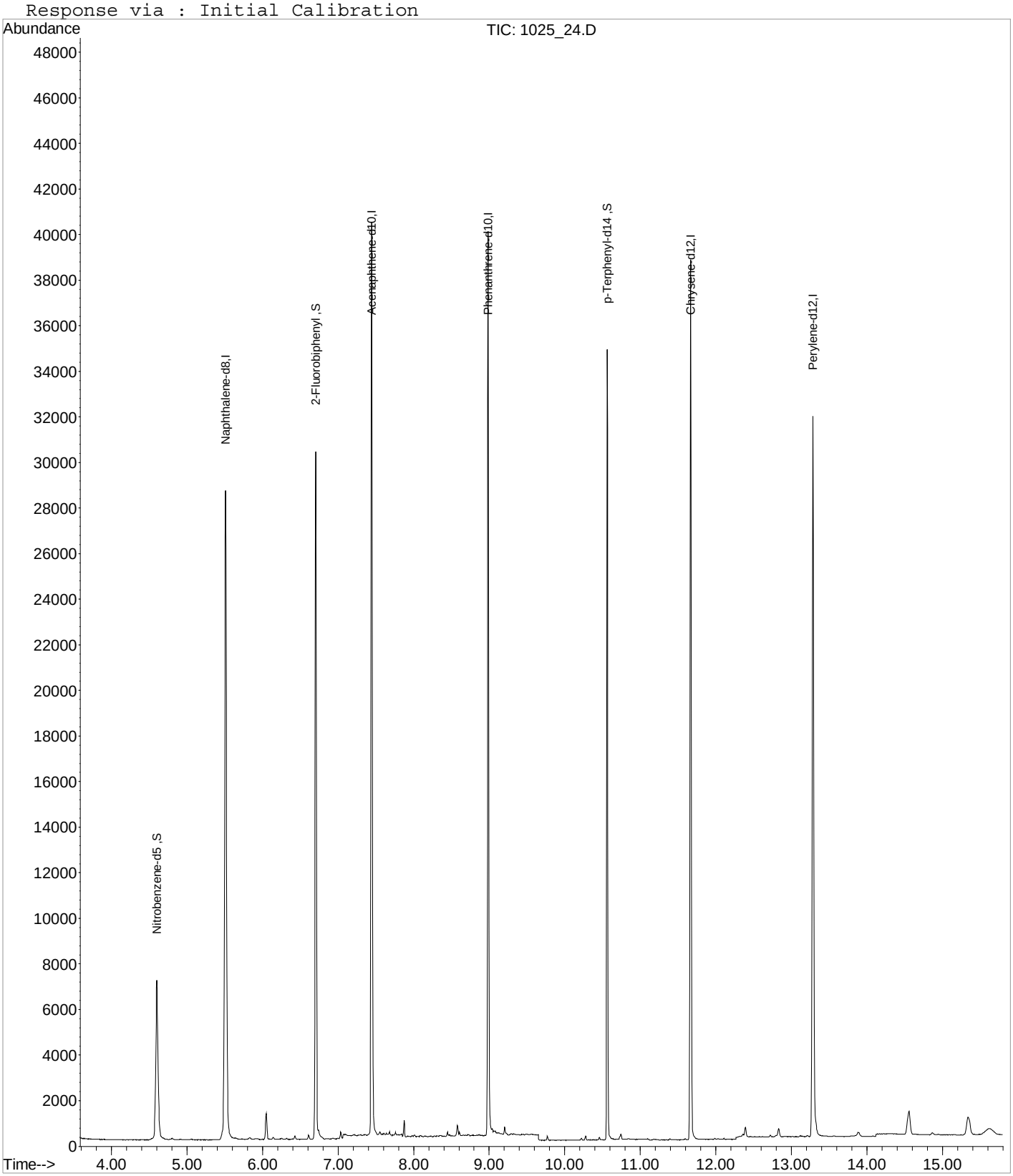
Target Compounds					Qvalue
3) Naphthalene	5.53	128	524	0.9560588 ppb	98
4) 2-Methylnaphthalene	6.32	142	47	N.D.	
5) 1-Methylnaphthalene	6.43	142	116	N.D.	
8) 2-Chloronaphthalene	6.87	162	2	N.D.	
9) Acenaphthylene	7.30	152	13	N.D.	
10) Acenaphthene	7.47	153	82	N.D.	
11) Dibenzofuran	7.66	168	21	N.D.	
12) Fluorene	8.01	166	40	N.D.	
14) Phenanthrene	9.01	178	149	N.D.	
15) Anthracene	9.06	178	72	N.D.	
16) Fluoranthene	10.22	202	63	N.D.	
18) Pyrene	10.46	202	82	N.D.	
20) Benzo(a)anthracene	11.66	228	154	N.D.	
21) Chrysene	11.69	228	54	N.D.	
23) Benzo(b)fluoranthene	12.79	252	72	N.D.	
24) Benzo(k)fluoranthene	12.79	252	72	N.D.	
25) Benzo(a)pyrene	13.21	252	76	N.D.	
26) Indeno(1,2,3-cd)pyrene	14.87	276	94	N.D.	
27) Dibenz(a,h)anthracene	14.86	278	49	N.D.	
28) Benzo(g,h,i)perylene	15.46	276	2	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 24.D Vial: 57
Acq On : 25 Oct 2014 10:36 am Operator: 280
Sample : L729026-05 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:10 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 25.D Vial: 58
Acq On : 25 Oct 2014 10:59 am Operator: 280
Sample : L729026-06 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:36 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	41251	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	21709	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	35928	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	30639	40.00 ppb	-0.02
22) Perylene-d12	13.29	264	33991	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	9866	66.1432053 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 79.40%		
7) 2-Fluorobiphenyl	6.71	172	23739	69.7670604 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 83.75%		
19) p-Terphenyl-d14	10.56	244	23345	64.6245430 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 77.58%		

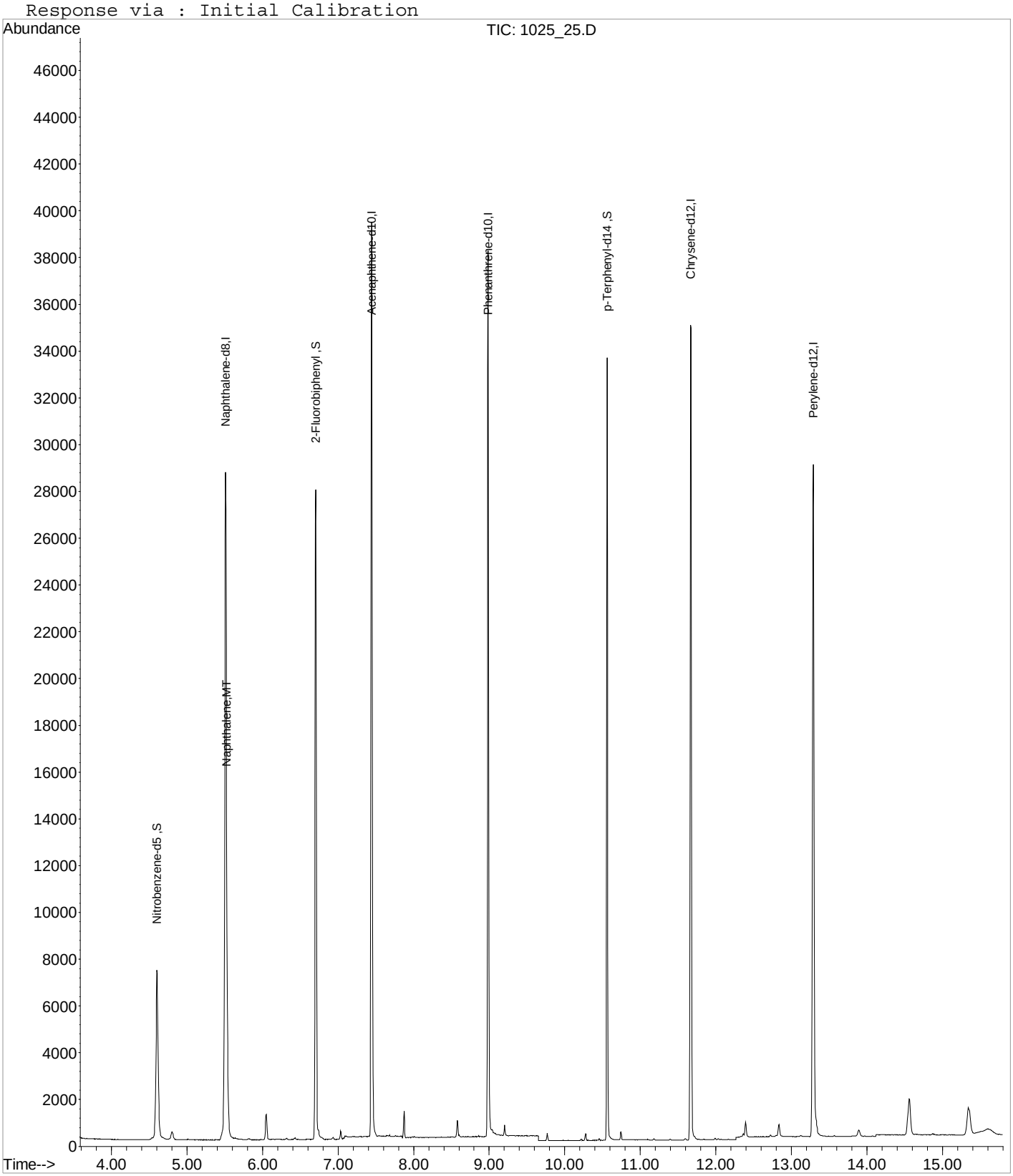
Target Compounds					Qvalue
3) Naphthalene	5.53	128	3559	6.6712586 ppb	99
4) 2-Methylnaphthalene	6.32	142	46	N.D.	
5) 1-Methylnaphthalene	6.43	142	62	N.D.	
8) 2-Chloronaphthalene	6.94	162	3	N.D.	
9) Acenaphthylene	7.29	152	10	N.D.	
10) Acenaphthene	7.50	153	3	N.D.	
11) Dibenzofuran	7.66	168	23	N.D.	
12) Fluorene	8.01	166	27	N.D.	
14) Phenanthrene	9.01	178	90	N.D.	
15) Anthracene	9.10	178	5	N.D.	
16) Fluoranthene	10.22	202	40	N.D.	
18) Pyrene	10.46	202	46	N.D.	
20) Benzo(a)anthracene	11.66	228	120	N.D.	
21) Chrysene	11.69	228	43	N.D.	
23) Benzo(b)fluoranthene	12.79	252	56	N.D.	
24) Benzo(k)fluoranthene	12.83	252	221	N.D.	
25) Benzo(a)pyrene	13.28	252	114	N.D.	
26) Indeno(1,2,3-cd)pyrene	14.62	276	3	N.D.	
27) Dibenz(a,h)anthracene	14.88	278	26	N.D.	
28) Benzo(g,h,i)perylene	15.35	276	72	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102514\1025 25.D Vial: 58
Acq On : 25 Oct 2014 10:59 am Operator: 280
Sample : L729026-06 1x WG750213 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14I11314 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 9:36 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Calibration

Instrument: SVGCMS7
Method: SS07J22N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1022A_03.D	1	10/22/2014 11:06:00 AM
1022A_04.D	5	10/22/2014 11:29:00 AM
1022A_05.D	10	10/22/2014 11:52:00 AM
1022A_06.D	20	10/22/2014 12:15:00 PM
1022A_02.D	40	10/22/2014 10:43:00 AM
1022A_07.D	80	10/22/2014 12:37:00 PM
1022A_13.D	200	10/22/2014 3:13:00 PM
1022A_11.D	1000	10/22/2014 2:22:00 PM
1022A_12.D	2000	10/22/2014 2:45:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : SVCOMPM
Released By : Kelly Fox
Date Released : 10/23/2014 7:17:23 AM
Run ID : 102214A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1022A_01	TUNE DFTPP 2 PPM 14J03433								1	10/22/14 1020	
2	1022A_02	MSTD SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/22/14 1043	"SIM CALIBRATION"
3	1022A_03	STD SIMLVI 1 PPB 14J10795	SS07J22N						1	1	10/22/14 1106	"SIM CALIBRATION"
4	1022A_03 MRL	MRL SIMLVI 1 PPB 14J10795	SS07J22N						1	1	10/22/14 1106	"SIM CALIBRATION"
5	1022A_04	STD SIMLVI 5 PPB 14J10795	SS07J22N						1	1	10/22/14 1129	"SIM CALIBRATION"
6	1022A_04 MRL	MRL SIMLVI 5 PPB 14J10795	SS07J22N						1	1	10/22/14 1129	"SIM CALIBRATION"
7	1022A_05	STD SIMLVI 10 PPB 14J10795	SS07J22N						1	1	10/22/14 1152	"SIM CALIBRATION"
8	1022A_06	STD SIMLVI 20 PPB 14J10795	SS07J22N						1	1	10/22/14 1215	"SIM CALIBRATION"
9	1022A_07	STD SIMLVI 80 PPB 14J10795	SS07J22N						1	1	10/22/14 1237	"SIM CALIBRATION"
10	1022A_08	DNR STD SIMLVI 200 PPB 14J10795	SS07J22N						1	1	10/22/14 1300	"SIM CALIBRATION"
11	1022A_09	DNR STD SIMLVI 1K PPB 14J10795	SS07J22N						1	1	10/22/14 1323	"SIM CALIBRATION"
12	1022A_10	DNR STD SIMLVI 2K PPB 14J10795	SS07J22N						1	1	10/22/14 1346	"SIM CALIBRATION"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : SVCOMPM
Released By : Kelly Fox
Date Released : 10/23/2014 7:17:23 AM
Run ID : 102214A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
13	1022A_11	STD SIMLVI 1K PPB 14J10795	SS07J22N						1	1	10/22/14 1422	"SIM CALIBRATION"
14	1022A_12	STD SIMLVI 2K PPB 14J10795	SS07J22N						1	1	10/22/14 1445	"SIM CALIBRATION"
15	1022A_13	STD SIMLVI 200 PPB 14J10795	SS07J22N						1	1	10/22/14 1513	"SIM CALIBRATION"
16	1022A_14	SSCV SIMLVI 40 PPB 14J10801	SS07J22N						1	1	10/22/14 1549	"SIM SSCV"

Mint Miner 2.6.4 Directory Scan: y:\102214A

23 Oct 2014 10:34

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102214A\1022A_01.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_01.D					
1	Scanned	M(1)	280	SVGCMS7	TUNE DFTPP 2 PPM 14J03433 (DFTTP TUNE)
Scan File Path: y:\102214A\1022A_02.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_02.D					
5	Scanned	M(4), MI(1)	280	SVGCMS7	MSTD SIMLVI 40 PPB 14J10795 (SIM CALIBF
Scan File Path: y:\102214A\1022A_03.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_03.D					
14	Scanned	M(4), MT(2)	280	SVGCMS7	STD SIMLVI 1 PPB 14J10795 (SIM CALIBRAT
Scan File Path: y:\102214A\1022A_03MRL.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_03.D					
26	Scanned	M(6), MT(4)	280	SVGCMS7	STD SIMLVI 1 PPB 14J10795 (SIM CALIBRAT
Scan File Path: y:\102214A\1022A_04.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_04.D					
4	Scanned	M(4)	280	SVGCMS7	STD SIMLVI 5 PPB 14J10795 (SIM CALIBRAT
Scan File Path: y:\102214A\1022A_04MRL.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_04.D					
27	Scanned	M(7), MT(2), MM(1), MR(1)	280	SVGCMS7	STD SIMLVI 5 PPB 14J10795 (SIM CALIBRAT
Scan File Path: y:\102214A\1022A_05.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_05.D					
7	Scanned	M(2), MR(1)	280	SVGCMS7	STD SIMLVI 10 PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_06.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_06.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 20 PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_07.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_07.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 80 PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_08.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_08.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 200 PPB 14J10795 (SIM CALIBR.
Scan File Path: y:\102214A\1022A_09.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_09.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 1K PPB 14J10795 (SIM CALIBRA

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102214A\1022A_10.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_10.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 2K PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_11.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_11.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 1K PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_12.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_12.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 2K PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_13.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_13.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 200 PPB 14J10795 (SIM CALIBR
Scan File Path: y:\102214A\1022A_14.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_14.D					
0	Scanned		280	SVGCMS7	SSCV SIMLVI 40 PPB 14J10801 (SIM SSCV)
Scan File Path: y:\102214A\1022A_15.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_15.D					
0	Scanned		280	SVGCMS7	INSTBLK SVOCS (INSTBLK SVOCS)
Scan File Path: y:\102214A\1022A_16.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_16.D					
8	Scanned	MR(1), M(1), QM(1)	280	SVGCMS7	MSTD PAHLVI 160 PPB 14I18662 (PAH CALIE
Scan File Path: y:\102214A\1022A_17.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_17.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 4 PPB 14I18662 (PAH CALIBRAT
Scan File Path: y:\102214A\1022A_17MRL.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_17.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 4 PPB 14I18662 (PAH CALIBRAT
Scan File Path: y:\102214A\1022A_18.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_18.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 16 PPB 14I18662 (PAH CALIBRA
Scan File Path: y:\102214A\1022A_18MRL.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_18.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 16 PPB 14I18662 (PAH CALIBRA

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102214A\1022A_19.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_19.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 40 PPB 14I18662 (PAH CALIBRA
Scan File Path: y:\102214A\1022A_20.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_20.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 80 PPB 14I18662 (PAH CALIBRA
Scan File Path: y:\102214A\1022A_21.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_21.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 400 PPB 14I18662 (PAH CALIBR
Scan File Path: y:\102214A\1022A_22.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_22.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 800 PPB 14I18662 (PAH CALIBR
Scan File Path: y:\102214A\1022A_23.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_23.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 2K PPB 14I18662 (PAH CALIBR
Scan File Path: y:\102214A\1022A_24.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_24.D					
4	Scanned	DS(2), D(2)	280	SVGCMS7	STD PAHLVI 160 PPB 14I18671 (PAH SSCV)

D	=	Deletion of any analyte	DS	=	Deletion of a surrogate
M	=	Manual integration (non-specific)	MI	=	Manual integration of an internal standard
MM	=	More than 3 manual integrations of the same analyte	MR	=	Manual integration with before/after ratio <10%
MT	=	Multiple manual integrations of the same analyte >10 minutes apart	QM	=	Processed >3 times using the same method

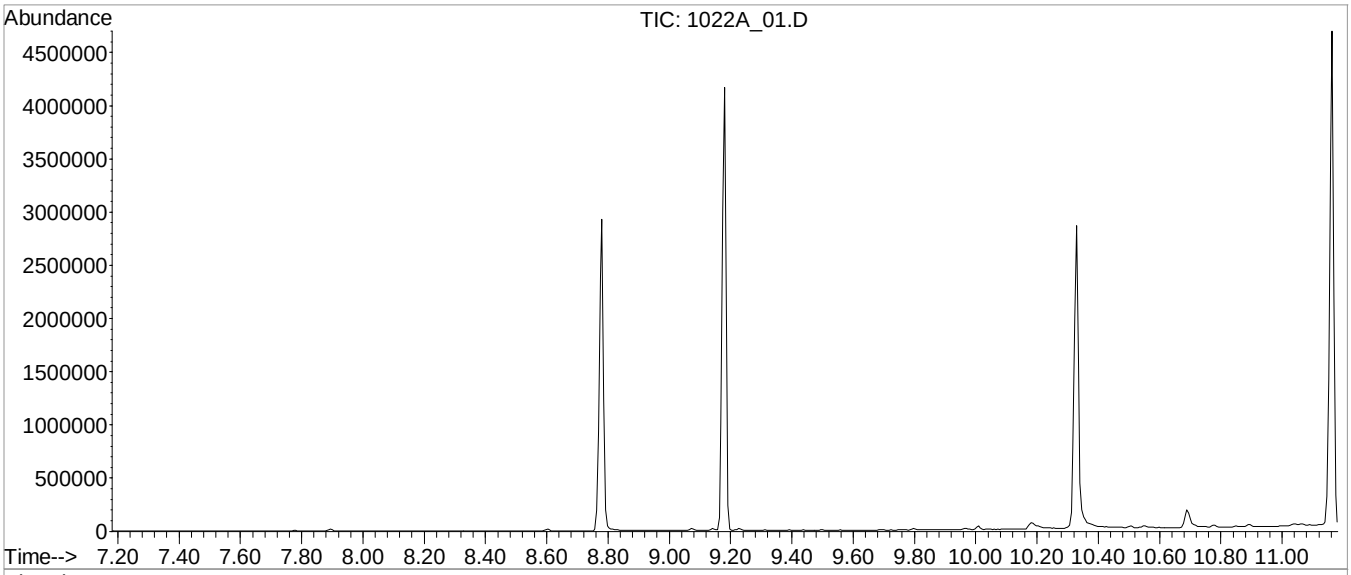
ScanSummary.rpt

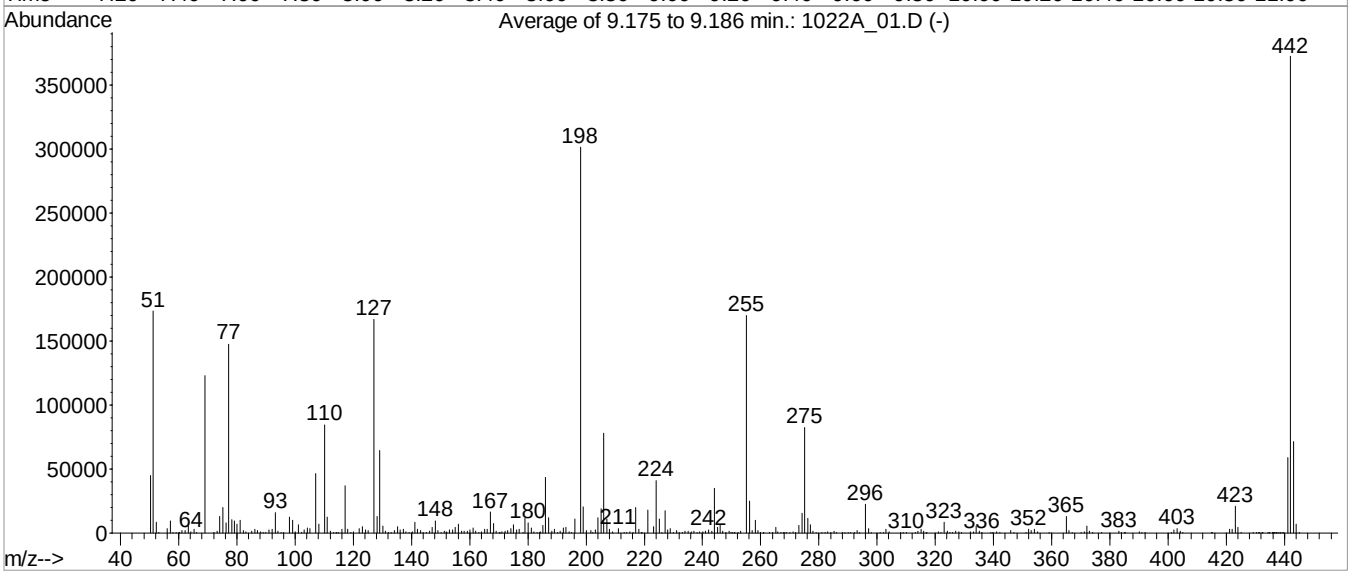
Total Files Scanned	28	Beginning Analyzed Date	10/22/2014 10:20:00AM
Methods	0	Ending Analyzed Date	10/22/2014 7:38:00PM
Samples	27	Analyzed Range	9 hours, 18 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0

Operators 1 Intruments 1

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA





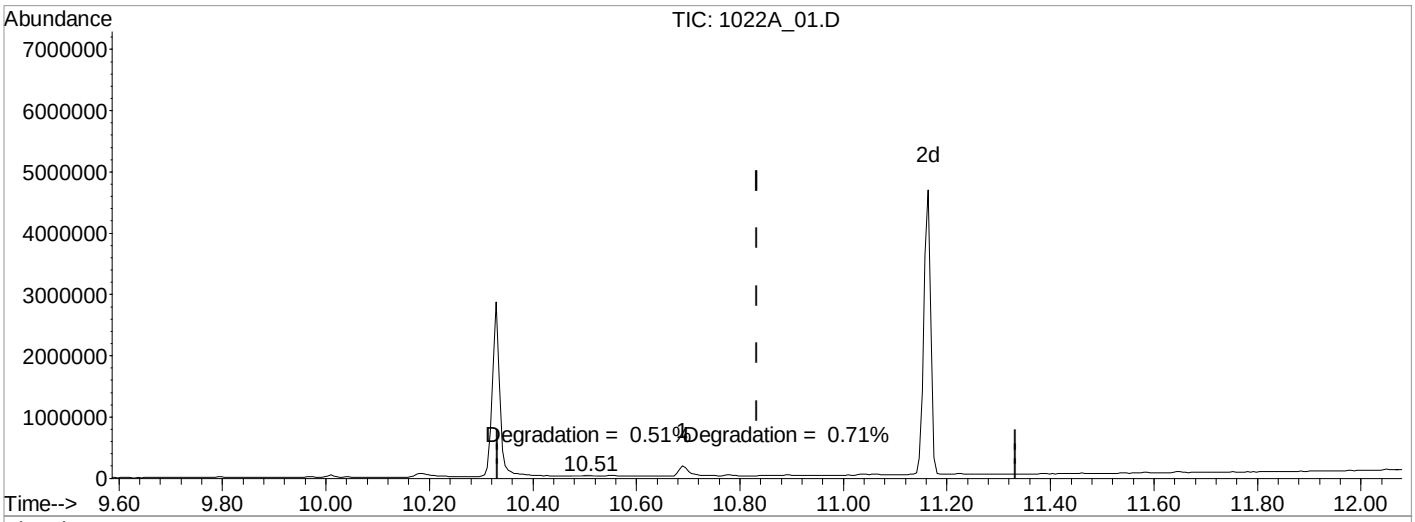
AutoFind: Scans 979, 980, 981; Background Corrected with Scan 973

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	46.5	173443	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.0	0	PASS
127	442	10	80	44.8	167032	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	80.9	301738	PASS
199	198	5	9	6.7	20146	PASS
275	442	10	60	22.1	82474	PASS
365	442	1	100	3.5	12883	PASS
441	443	0.01	100	82.7	58818	PASS
442	442	50	100	100.0	372800	PASS
443	442	15	24	19.1	71144	PASS

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration



TIC: 1022A_01.D

(4) DDT (MT)

10.69min (-0.143) 18.1507883 ug/ml

Qvalue = 100

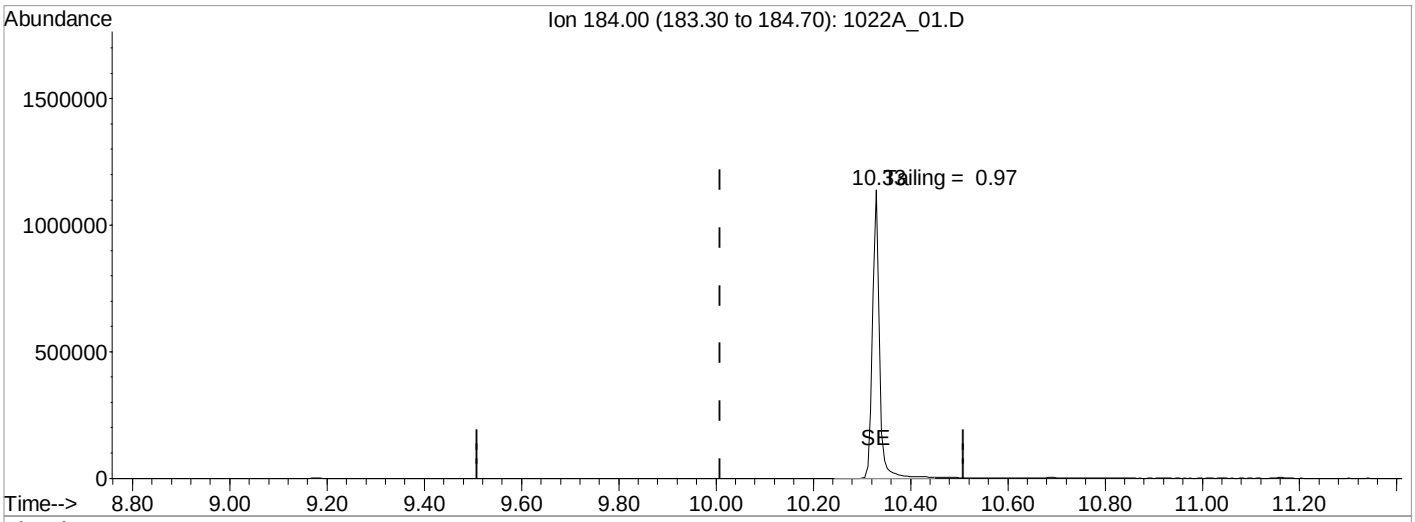
response 244241

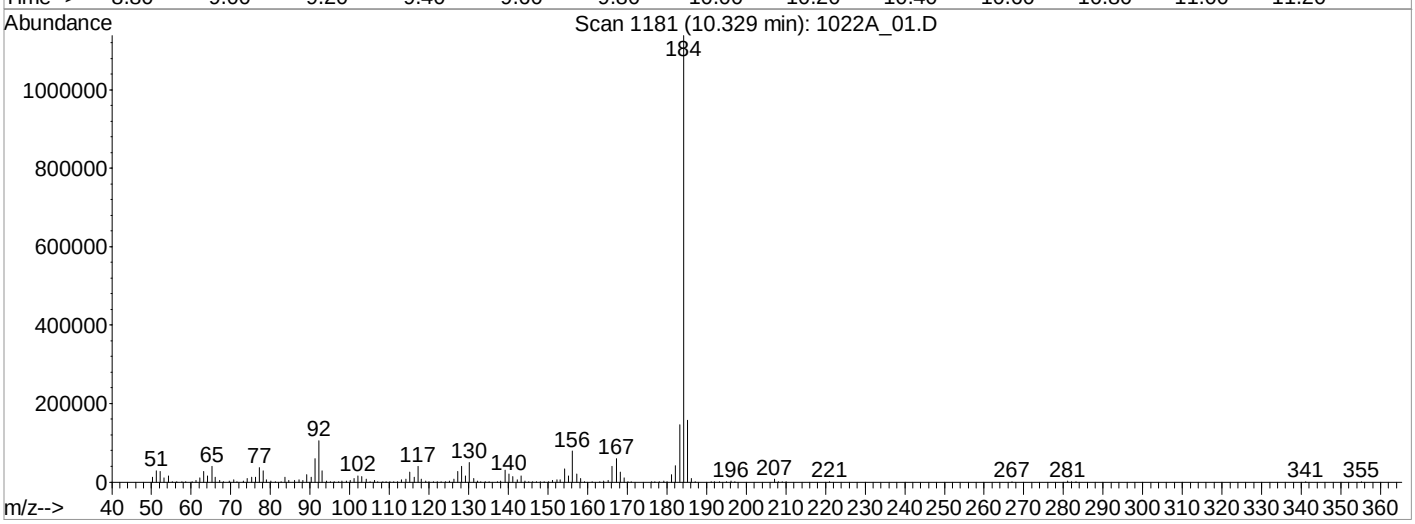
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration





TIC: 1022A_01.D

(3) Benzidine (MT)

10.33min (+0.320) 46.7744287 ug/mL

Qvalue = 100

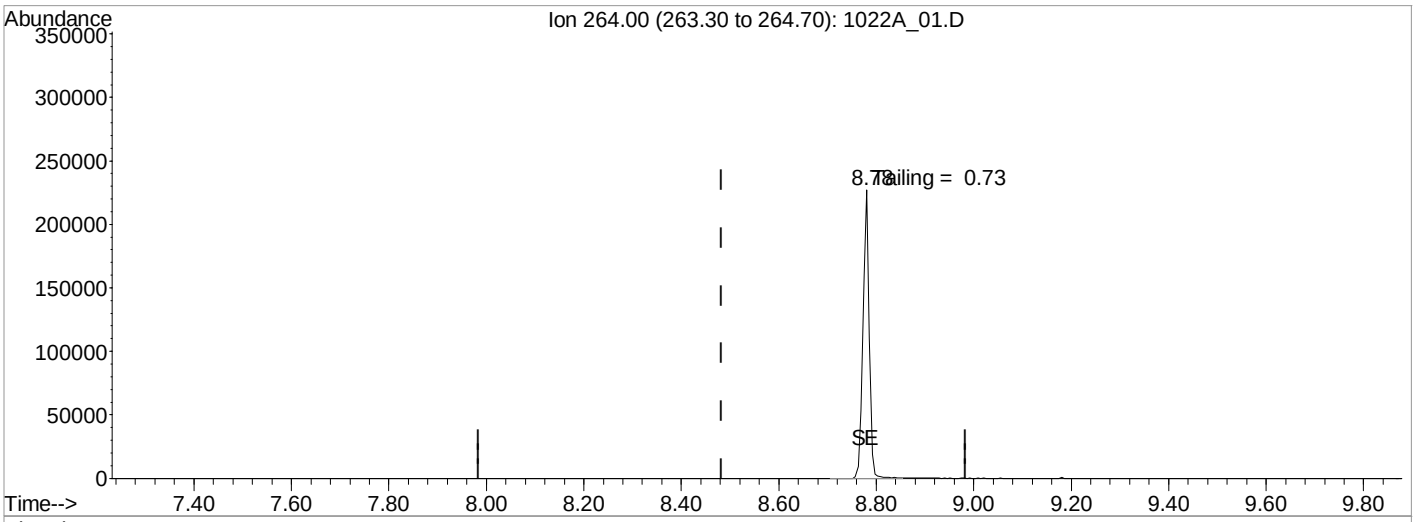
response 1122663

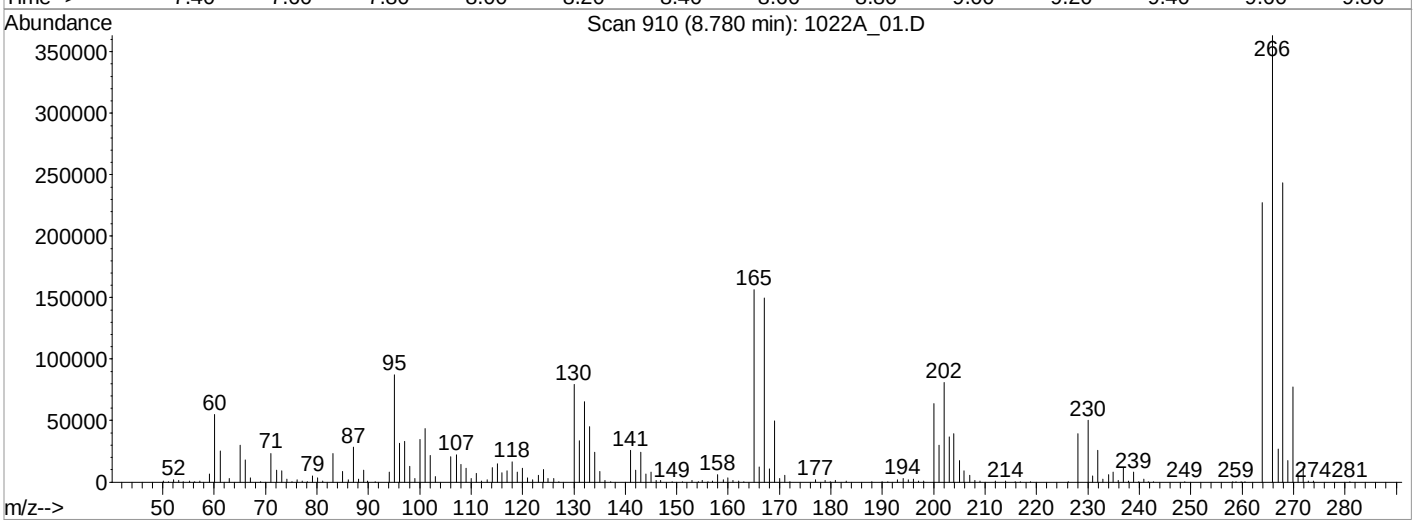
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration





TIC: 1022A_01.D

(1) Pentachlorophenol (TM)

8.78min (+0.297) 34.7675503 ug/mL

Qvalue = 100

response 202877

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 (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:41 2014 Quant Results File: TUNE525.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Initial Calibration
DataAcq Meth : PAH_20UL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

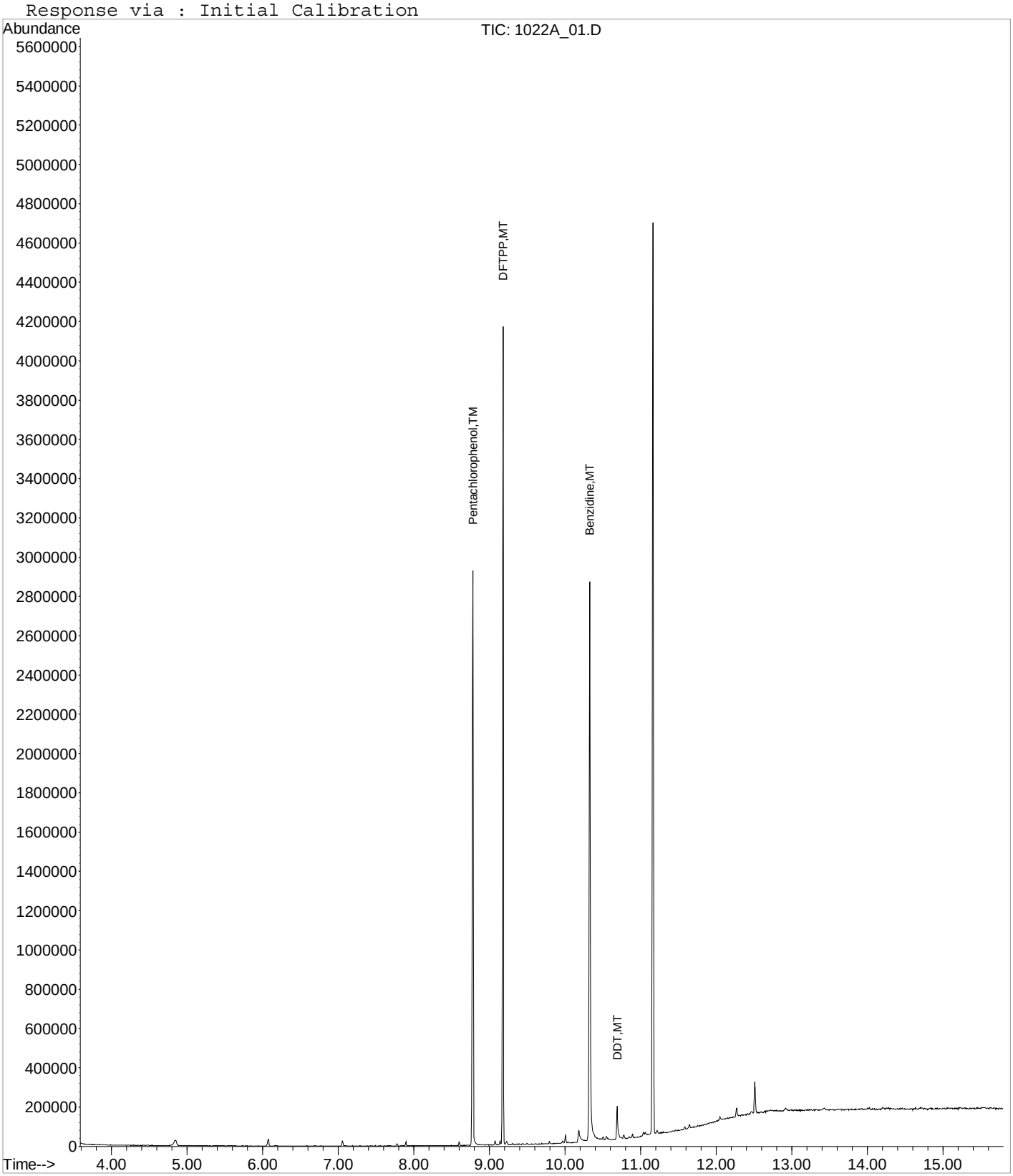
Target Compounds					Qvalue
1) Pentachlorophenol	8.78	264	202877	34.7675503 ug/mL	100
2) DFTPP	9.18	198	354054	47.8525070 ug/mL	100
3) Benzidine	10.33	184	1122663	46.7744287 ug/mL	100
4) DDT	10.69	TIC	244241	18.1507883 ug/ml	100
5) DDT	10.47	235	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:41 2014 Quant Results File: TUNE525.RES

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Initial Calibration



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: SVGCMS7	Review Method	: LVI PAH	Released By	: Kelly Fox
Method	: SS07J22N	Review Protocol	: SW846	Released On	: 10/23/2014 7:17:23 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS07J22N -- ICal Updated Time: Wed Oct 22 15:37:36 2014

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Naphthalene-d8														
Nitrobenzene-d5	0.273	0.275	0.263	0.286	0.278	0.274	0.309	0.319	0.325	0.289275	7.75	0.077	1	
Naphthalene		1.204	1.019	1.051	0.98	0.956	1.022	1.015	1.031	1.034608	7.19	0.072	1	0.7
2-Methylnaphthalene	0.638	0.659	0.61	0.671	0.633	0.629	0.687	0.685	0.693	0.655933	4.52	0.045	1	0.4
1-Methylnaphthalene	0.594	0.612	0.569	0.621	0.591	0.586	0.641	0.64	0.643	0.610849	4.46	0.045	1	
Acenaphthene-d10														
2-Fluorobiphenyl	1.228	1.284	1.188	1.292	1.209	1.185	1.315	1.274	1.31	1.253898	4.13	0.041	1	
2-Chloronaphthalene	1.019	1.066	0.985	1.089	1.016	1.003	1.094	1.072	1.078	1.046872	3.9	0.039	1	0.8
Acenaphthylene	1.528	1.607	1.487	1.664	1.618	1.579	1.801	1.83	1.87	1.664897	8.27	0.083	1	0.9
Acenaphthene	1.088	1.134	1.052	1.153	1.075	1.066	1.177	1.172	1.186	1.122553	4.68	0.047	1	0.9
Dibenzofuran	1.445	1.501	1.389	1.528	1.417	1.411	1.556	1.507	1.524	1.475284	4.1	0.041	1	0.8
Fluorene	1.2	1.269	1.169	1.287	1.229	1.21	1.345	1.333	1.372	1.268202	5.61	0.056	1	0.9
Phenanthrene-d10														
Phenanthrene	1.094	1.086	1.008	1.115	1.029	1.022	1.158	1.127	1.153	1.088021	5.2	0.052	1	0.7
Anthracene	0.941	0.98	0.915	1.03	1	0.997	1.168	1.172	1.202	1.044956	10.29	0.103	1	0.7
Fluoranthene	1.021	1.058	0.984	1.101	1.042	1.037	1.211	1.191	1.21	1.09509	7.98	0.08	1	0.6
Chrysene-d12														
Pyrene	1.219	1.232	1.141	1.247	1.171	1.146	1.24	1.26	1.313	1.218839	4.66	0.047	1	0.5
p-Terphenyl-d14	0.951	0.952	0.886	0.97	0.909	0.894	0.958	0.971	0.997	0.943217	4.04	0.04	1	
Benzo(a)anthracene	1.122	1.057	0.962	1.062	1.021	1.013	1.089	1.143	1.208	1.07529	6.97	0.07	1	0.8
Chrysene	1.054	1.068	0.98	1.064	1.005	0.974	1.062	1.067	1.136	1.045544	4.88	0.049	1	0.7
Perylene-d12														
Benzo(b)fluoranthene	1.134	1.089	0.987	1.106	1.041	1.02	1.149	1.21	1.175	1.101056	6.75	0.068	1	0.7

PDF Generated On: 10/23/2014 - By: Kelly Fox

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: SVGCMS7	Review Method	: LVI PAH	Released By	: Kelly Fox
Method	: SS07J22N	Review Protocol	: SW846	Released On	: 10/23/2014 7:17:23 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS07J22N -- ICal Updated Time: Wed Oct 22 15:37:36 2014

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Benzo(k)fluoranthene	0.933	1.03	0.969	1.046	0.993	0.971	1.014	1.158	1.055	1.018749	6.43	0.064	1	0.7
Benzo(a)pyrene	0.849	0.874	0.807	0.898	0.856	0.84	0.939	0.977	0.994	0.892543	7.23	0.072	1	0.7
Indeno(1,2,3-cd)pyrene	1.075	1.067	0.987	1.097	1.039	1.015	1.075	1.321	1.279	1.106095	10.44	0.104	1	0.5
Dibenz(a,h)anthracene	0.876	0.896	0.834	0.933	0.878	0.856	0.924	1.133	1.121	0.93898	11.8	0.118	1	0.4
Benzo(g,h,i)perylene	0.947	0.937	0.859	0.961	0.892	0.867	0.915	1.103	1.019	0.944355	8.19	0.082	1	0.5

PDF Generated On: 10/23/2017 -- By: Kelly Fox

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	88842	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	48796	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	78396	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60526	40.00 ppb	0.00
22) Perylene-d12	13.31	264	59889	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	607	0.9447545 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 47.24%		
7) 2-Fluorobiphenyl	6.72	172	1498	0.9793218 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 48.97%#		
19) p-Terphenyl-d14	10.57	244	1439	1.0082472 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 50.41%#		

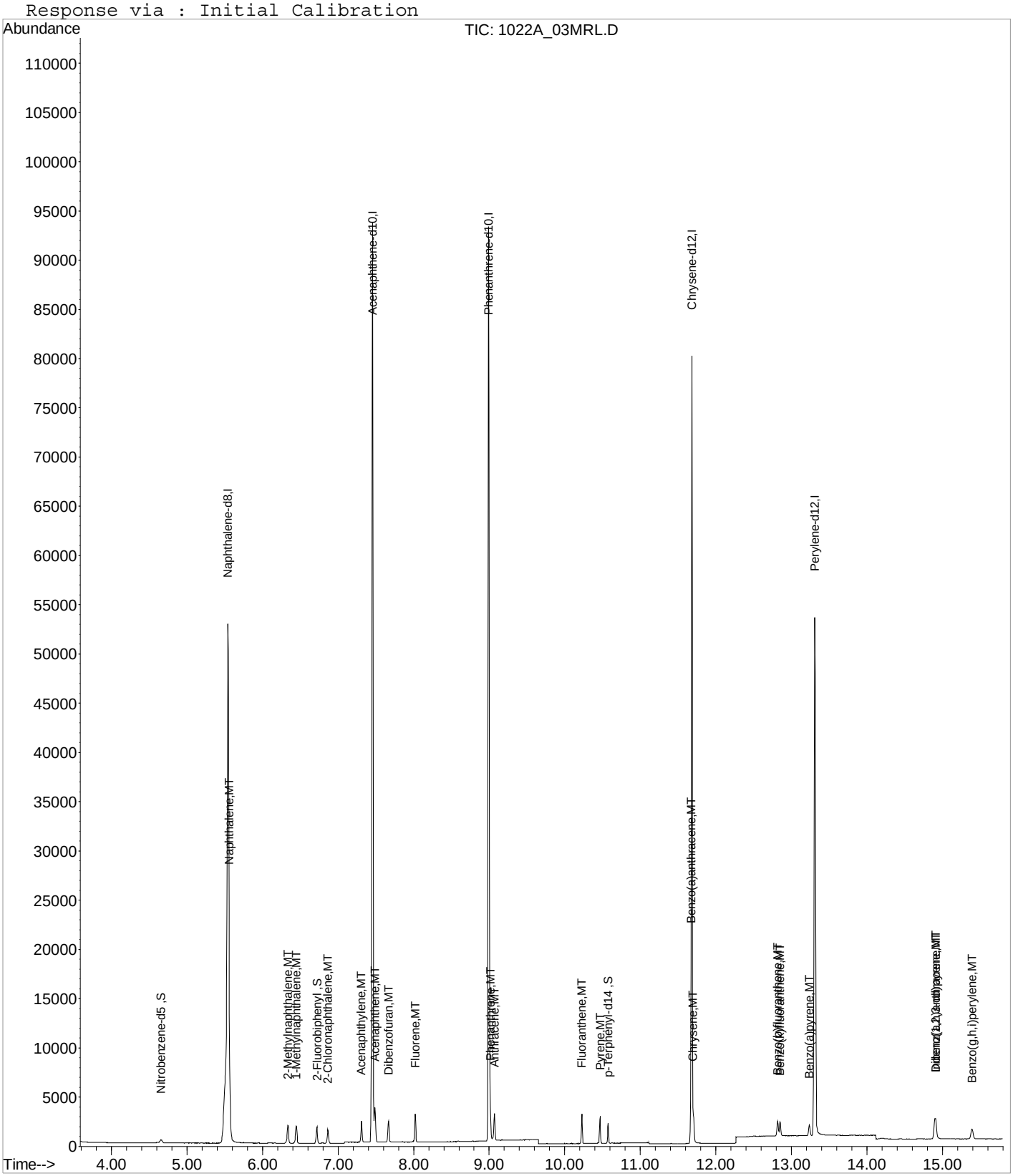
Target Compounds					Qvalue
3) Naphthalene	5.57	128	4201	1.8281786 ppb	100
4) 2-Methylnaphthalene	6.34	142	1418	0.9733265 ppb	100
5) 1-Methylnaphthalene	6.45	142	1319	0.9721928 ppb	95
8) 2-Chloronaphthalene	6.87	162	1243	0.9733146 ppb	96
9) Acenaphthylene	7.31	152	1864	0.9177708 ppb	98
10) Acenaphthene	7.49	153	1327	0.9690362 ppb	92
11) Dibenzofuran	7.67	168	1763	0.9796083 ppb	95
12) Fluorene	8.02	166	1464	0.9462993 ppb	100
14) Phenanthrene	9.02	178	2145	1.0059032 ppb	99
15) Anthracene	9.07	178	1844	0.9003866 ppb	98
16) Fluoranthene	10.22	202	2002	0.9327826 ppb	99
18) Pyrene	10.47	202	1845	1.0003870 ppb	98
20) Benzo(a)anthracene	11.66	228	1698	1.0435900 ppb	94
21) Chrysene	11.70	228	1595	1.0081756 ppb	96
23) Benzo(b)fluoranthene	12.82	252	1698	1.0300098 ppb	97
24) Benzo(k)fluoranthene	12.85	252	1397	0.9158879 ppb	93
25) Benzo(a)pyrene	13.23	252	1271	0.9511072 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.90	276	1571m	0.9486293 ppb	
27) Dibenz(a,h)anthracene	14.91	278	1312	0.9332341 ppb #	88
28) Benzo(g,h,i)perylene	15.39	276	1386m	0.9802594 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: SS07J22N.RES

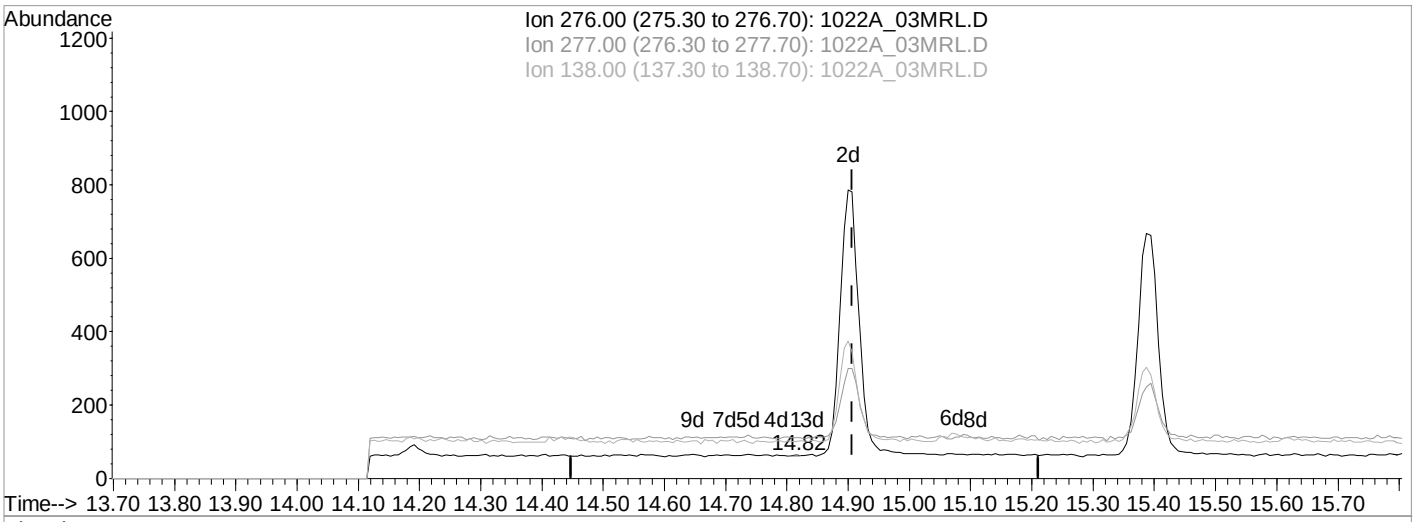
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

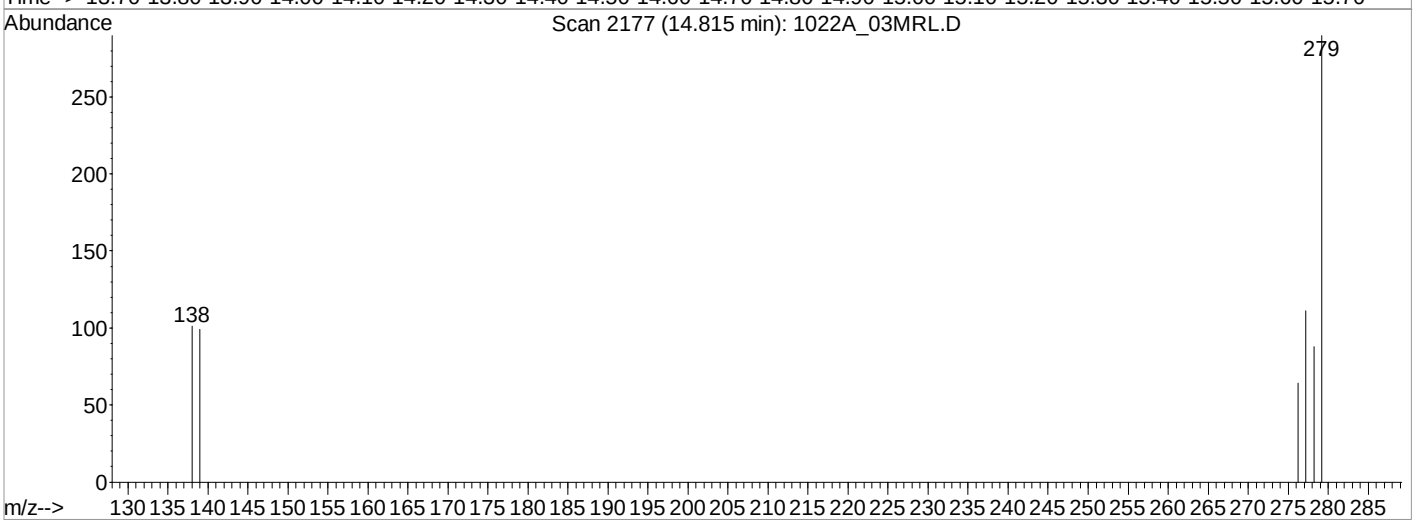


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_03MRL.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.82min (-0.091) 0.0018115 ppb

Qvalue = 89

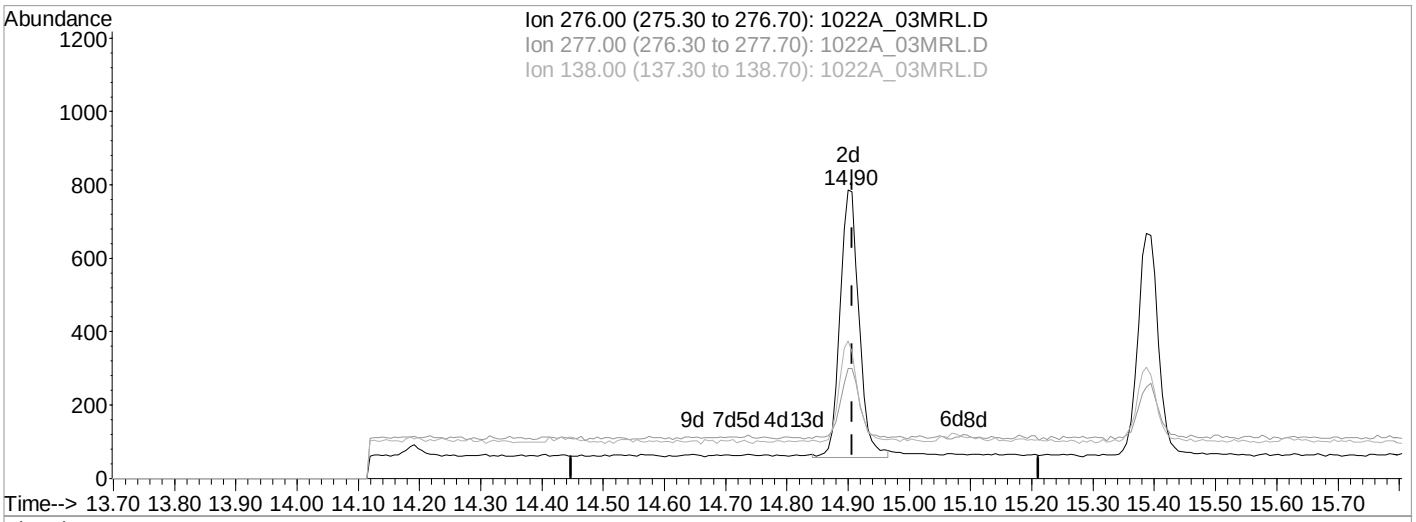
response 3

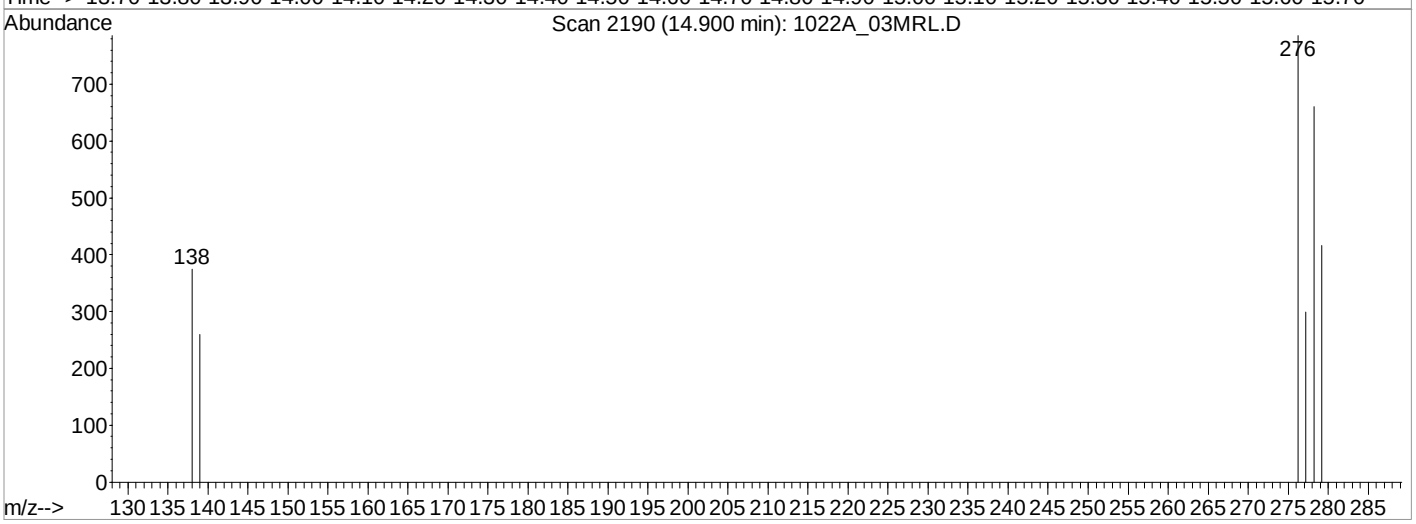
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	25.00
138.00	11.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_03MRL.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.90min (-0.007) 0.9486293 ppb m

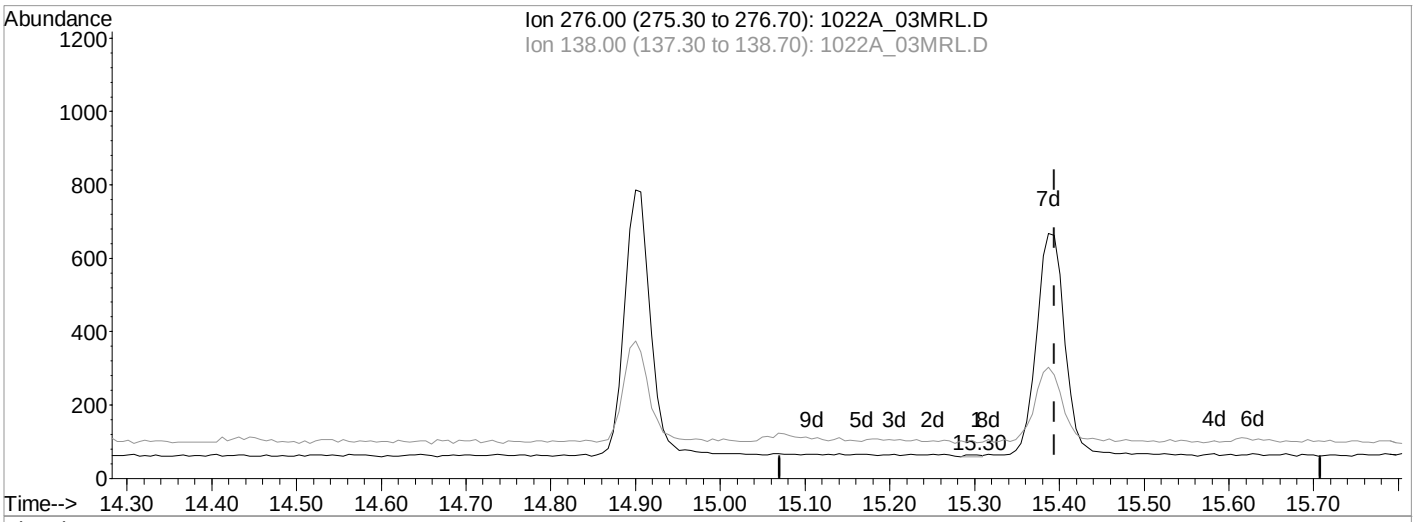
response 1571

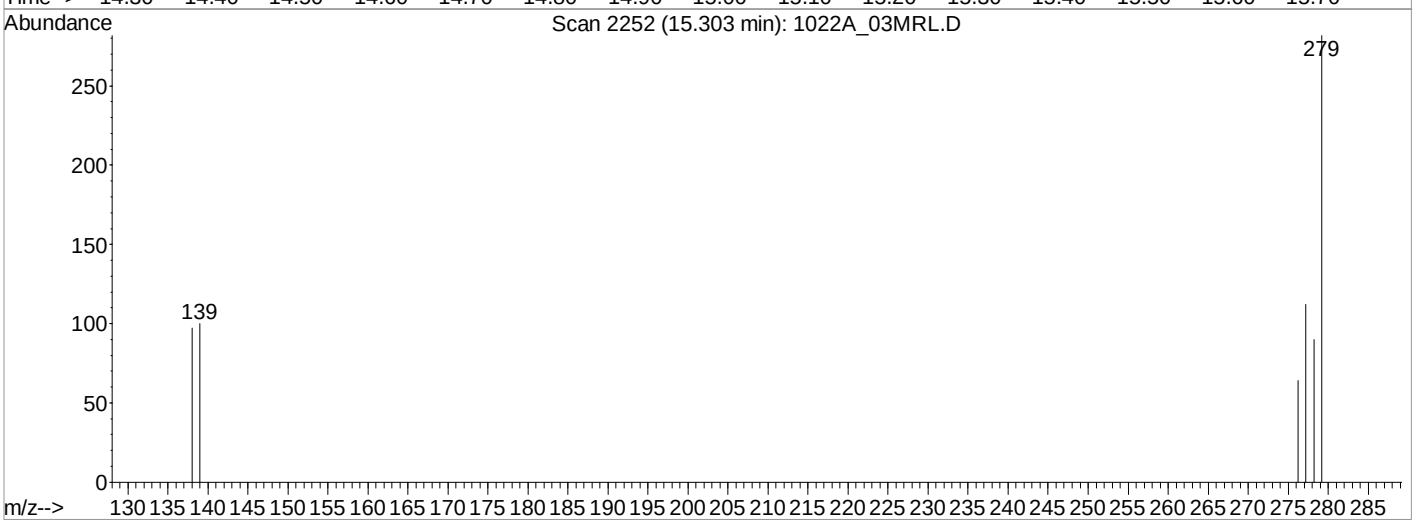
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	38.04
138.00	11.90	47.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_03MRL.D

(28) Benzo(g,h,i)perylene (MT)

15.30min (-0.091) 0.0042435 ppb

Qvalue = 74

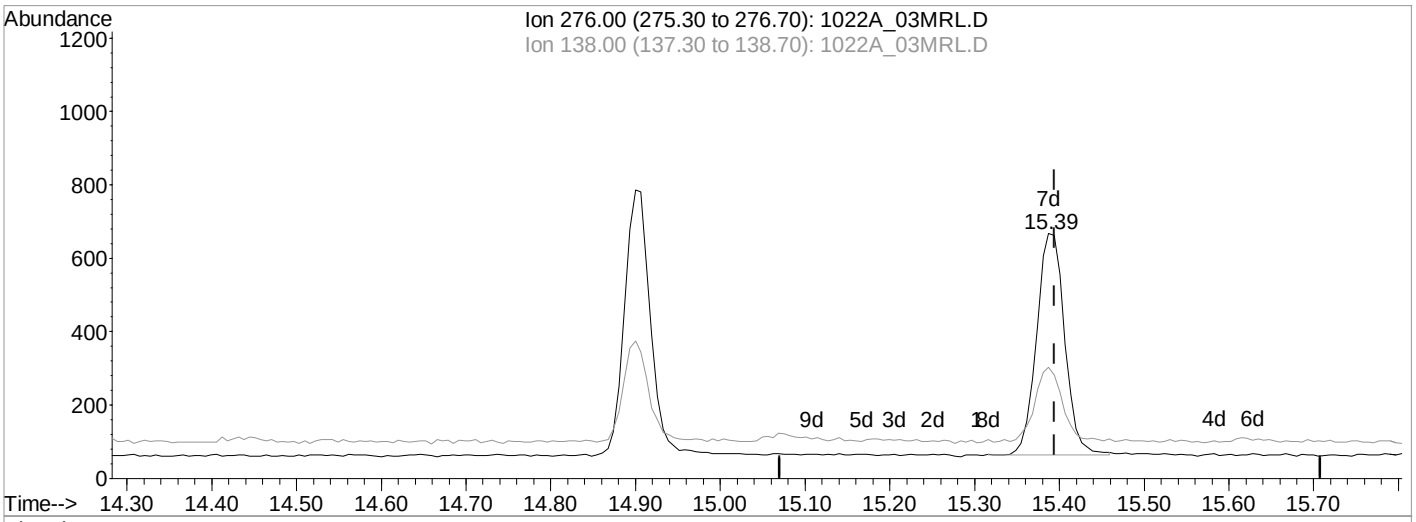
response 6

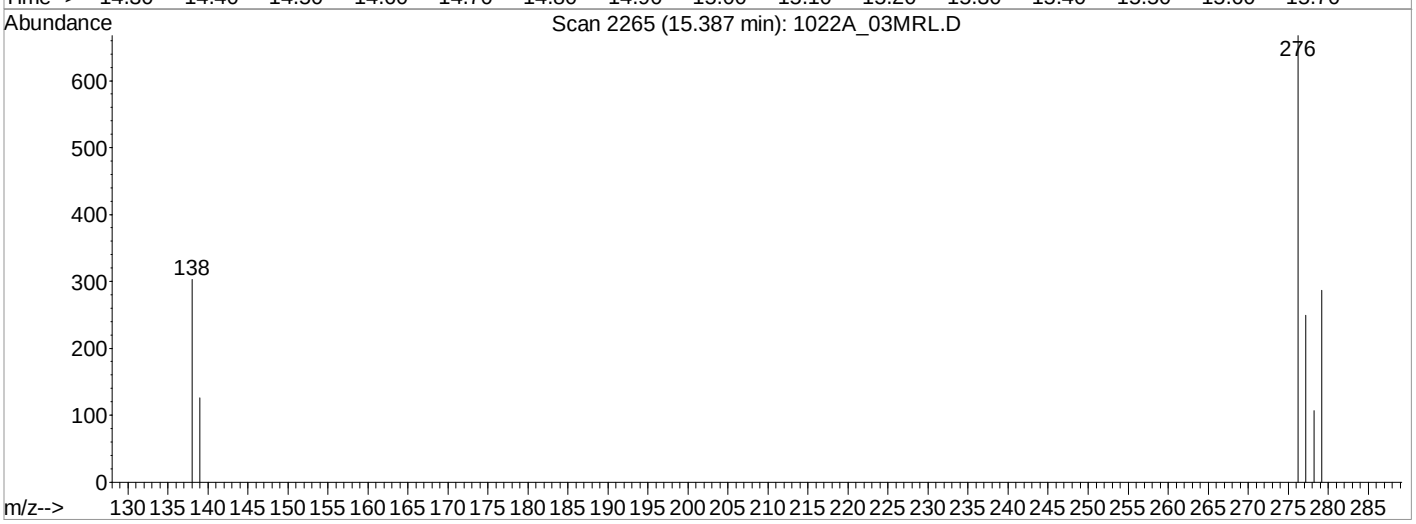
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_03MRL.D

(28) Benzo(g,h,i)perylene (MT)

15.39min (-0.007) 0.9802594 ppb m

response 1386

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	45.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	87717	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	47923	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	77734	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60354	40.00 ppb	0.00
22) Perylene-d12	13.30	264	59156	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	3019	4.7591342 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 237.96%#	
7) 2-Fluorobiphenyl	6.72	172	7691	5.1196072 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 255.98%#	
19) p-Terphenyl-d14	10.57	244	7184	5.0478735 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 252.39%#	

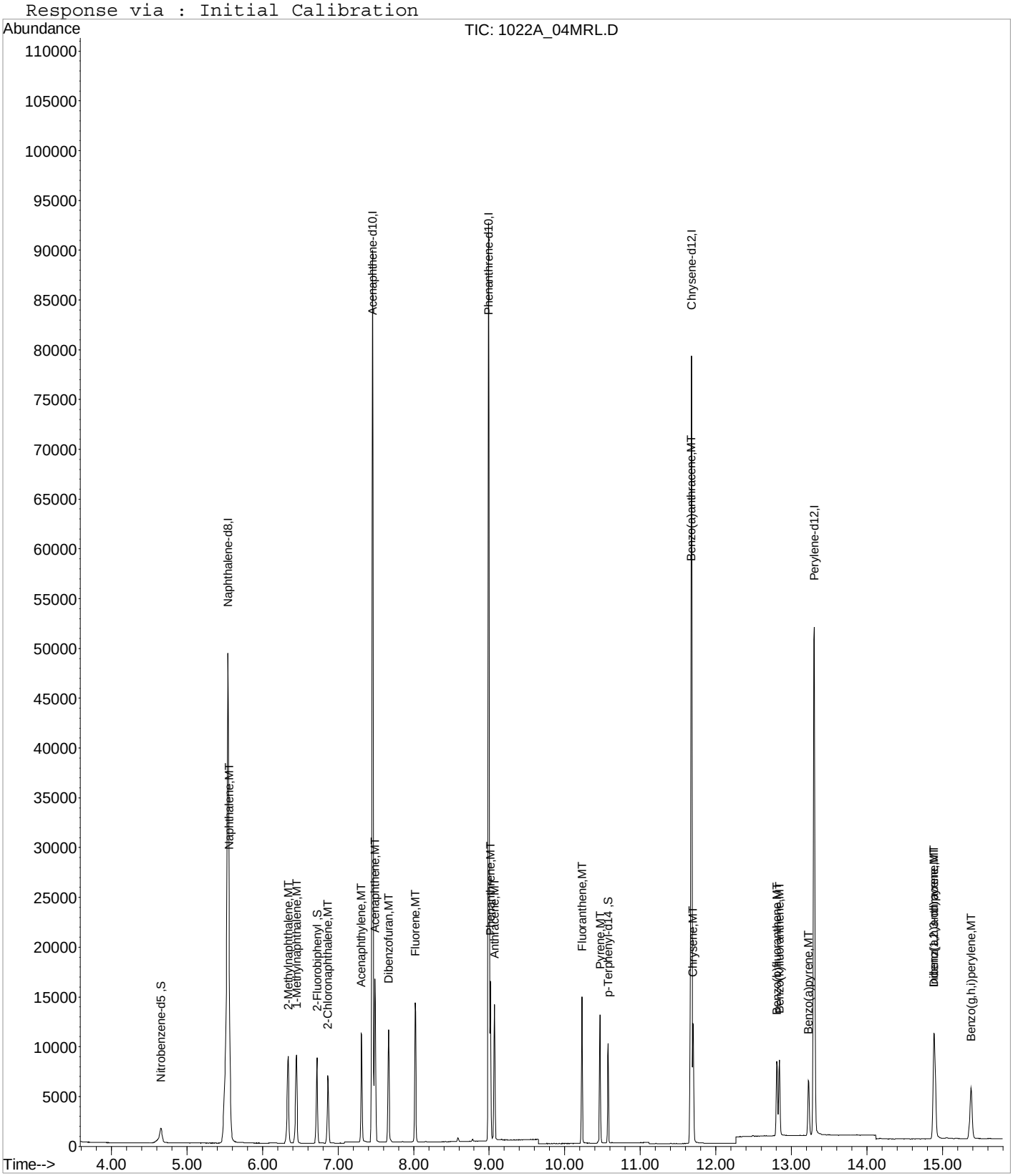
Target Compounds					Qvalue
3) Naphthalene	5.57	128	13197	5.8166873 ppb	99
4) 2-Methylnaphthalene	6.34	142	7227	5.0242929 ppb	94
5) 1-Methylnaphthalene	6.45	142	6712	5.0106504 ppb	96
8) 2-Chloronaphthalene	6.87	162	6385	5.0907672 ppb	98
9) Acenaphthylene	7.31	152	9625	4.8253554 ppb	100
10) Acenaphthene	7.49	153	6794	5.0516683 ppb	95
11) Dibenzofuran	7.67	168	8992	5.0874094 ppb	96
12) Fluorene	8.02	166	7601	5.0026299 ppb	97
14) Phenanthrene	9.02	178	10556	4.9924206 ppb	98
15) Anthracene	9.07	178	9521	4.6884959 ppb	99
16) Fluoranthene	10.23	202	10280	4.8305032 ppb	97
18) Pyrene	10.47	202	9297	5.0553407 ppb	98
20) Benzo(a)anthracene	11.66	228	7977	4.9166323 ppb	99
21) Chrysene	11.70	228	8054	5.1053209 ppb	97
23) Benzo(b)fluoranthene	12.80	252	8054	4.9461075 ppb	97
24) Benzo(k)fluoranthene	12.84	252	7615	5.0543360 ppb	99
25) Benzo(a)pyrene	13.22	252	6462	4.8955233 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.89	276	7904m	4.8318735 ppb	
27) Dibenz(a,h)anthracene	14.89	278	6628	4.7729568 ppb #	88
28) Benzo(g,h,i)perylene	15.37	276	6906m	4.9448444 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: SS07J22N.RES

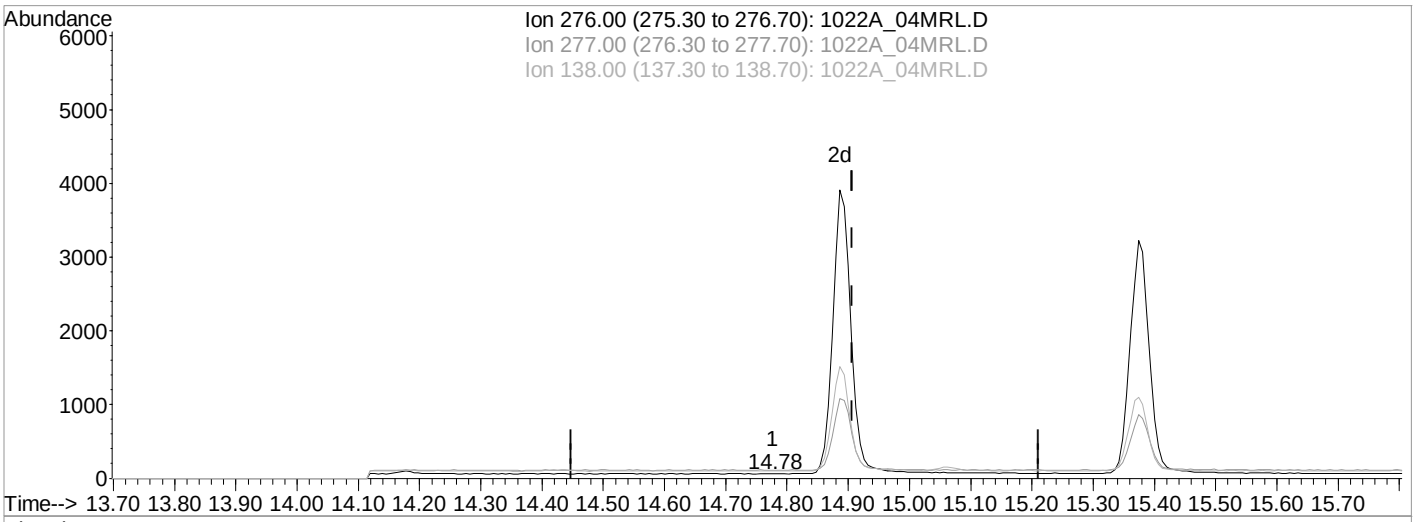
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

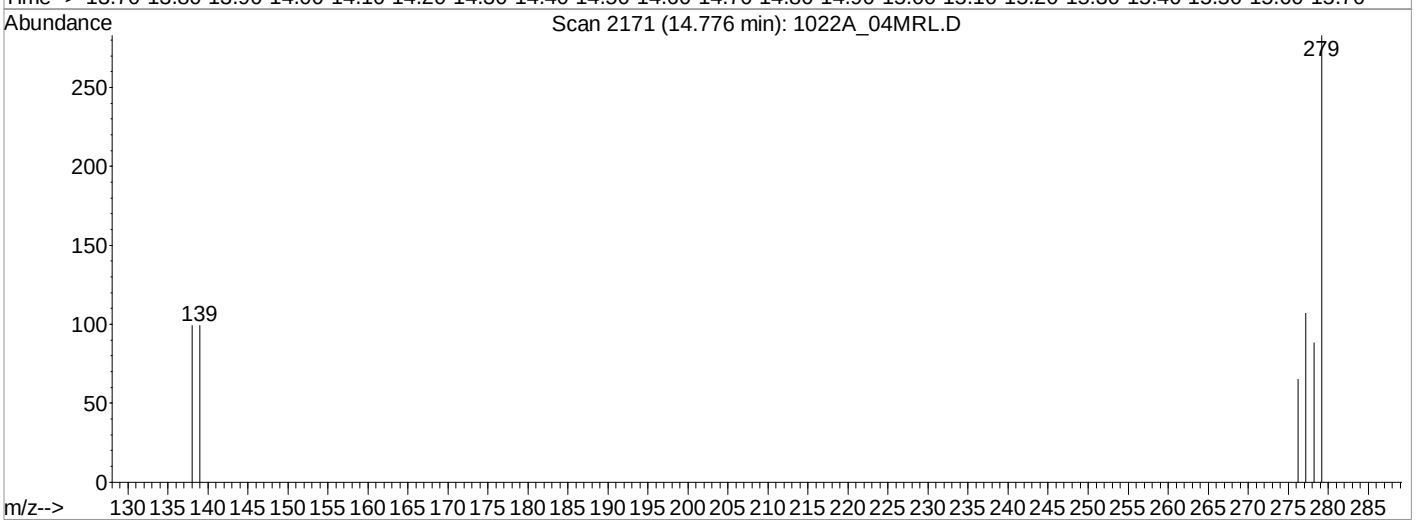


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:13 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_04MRL.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.78min (-0.130) 0.0067245 ppb

Qvalue = 77

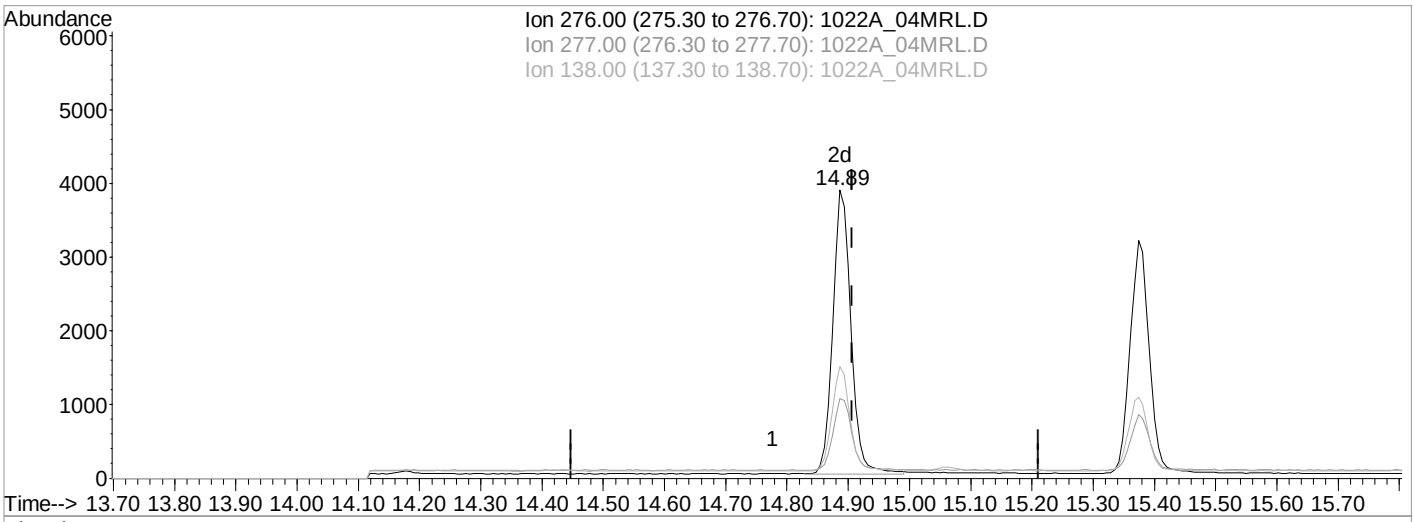
response 11

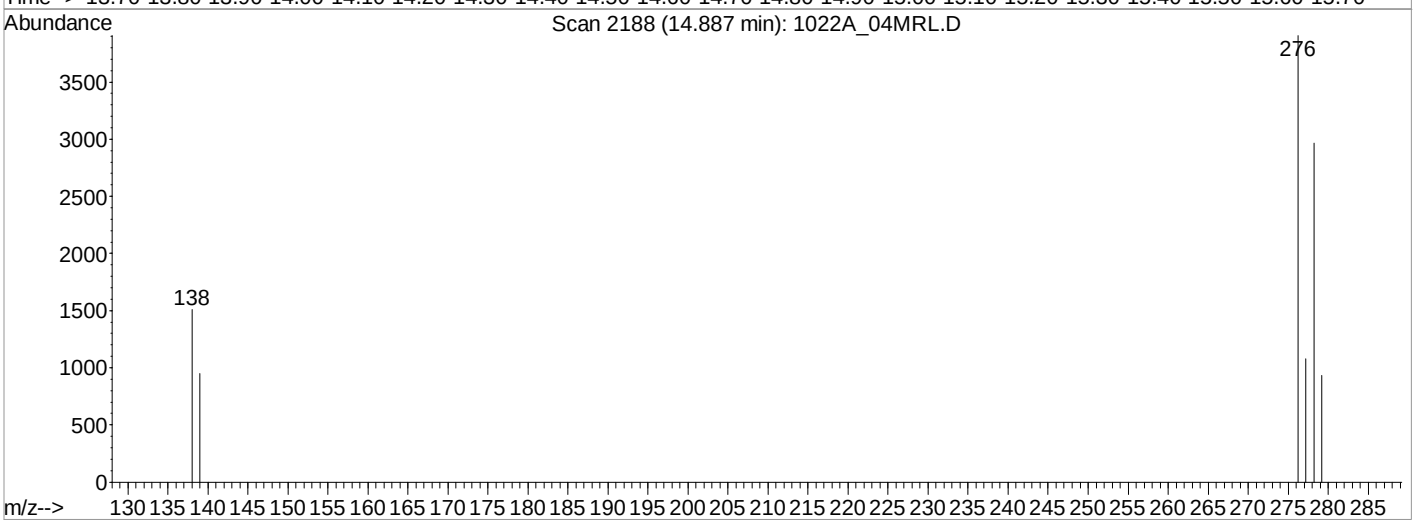
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	16.67
138.00	11.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_04MRL.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.89min (-0.020) 4.8318735 ppb m

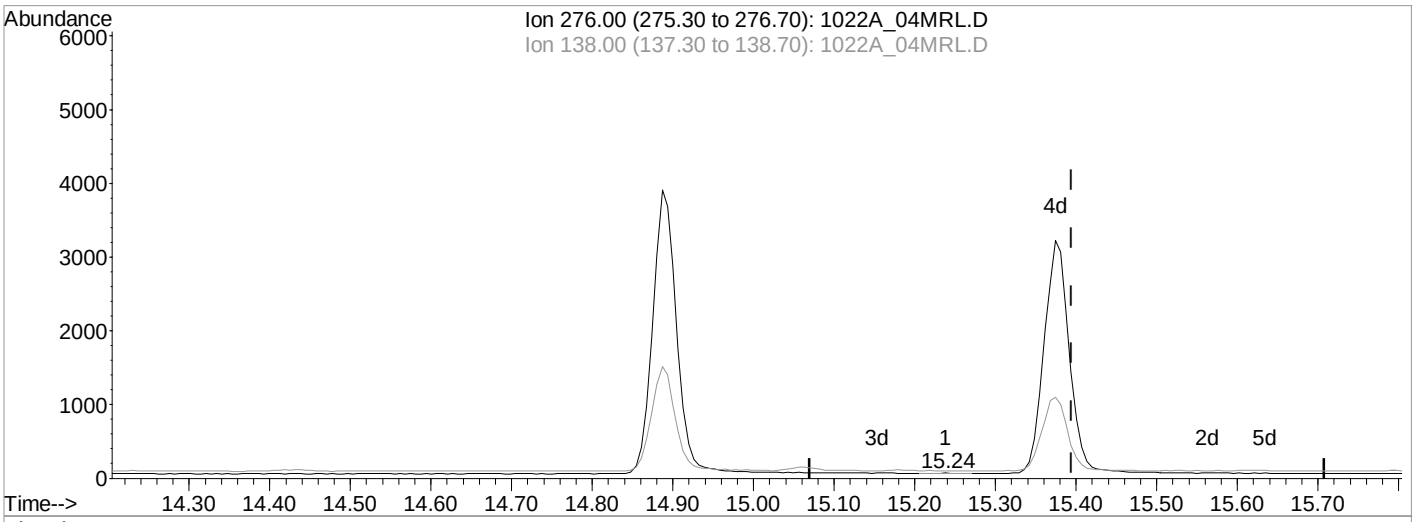
response 7904

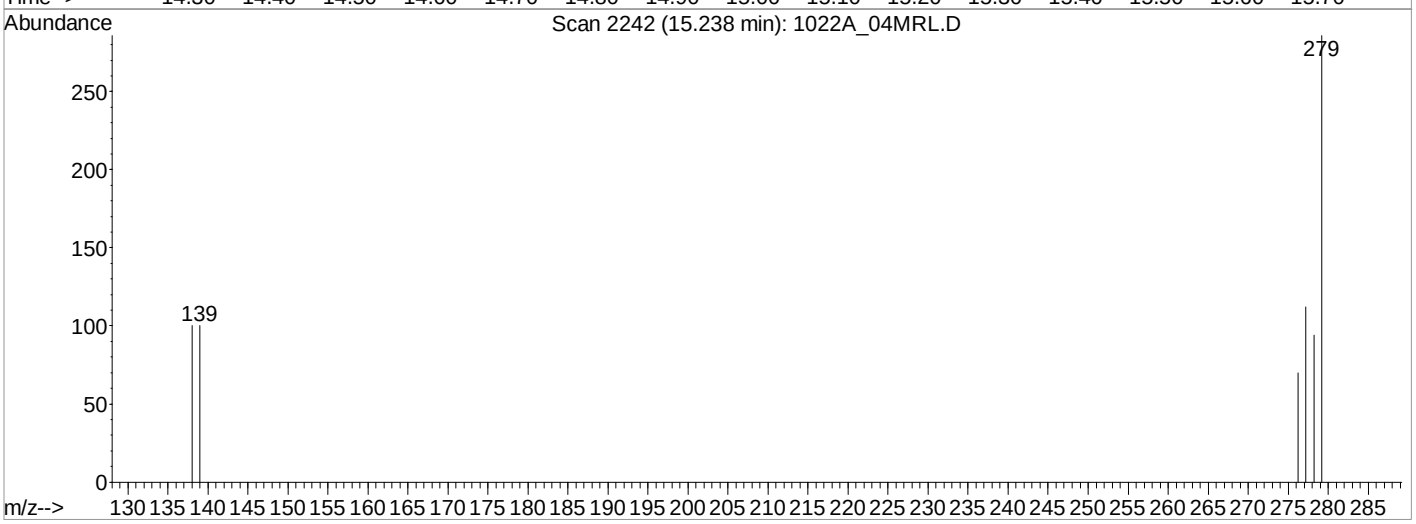
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	27.65
138.00	11.90	38.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_04MRL.D

(28) Benzo(g,h,i)perylene (MT)

15.24min (-0.156) 0.0064442 ppb

Qvalue = 72

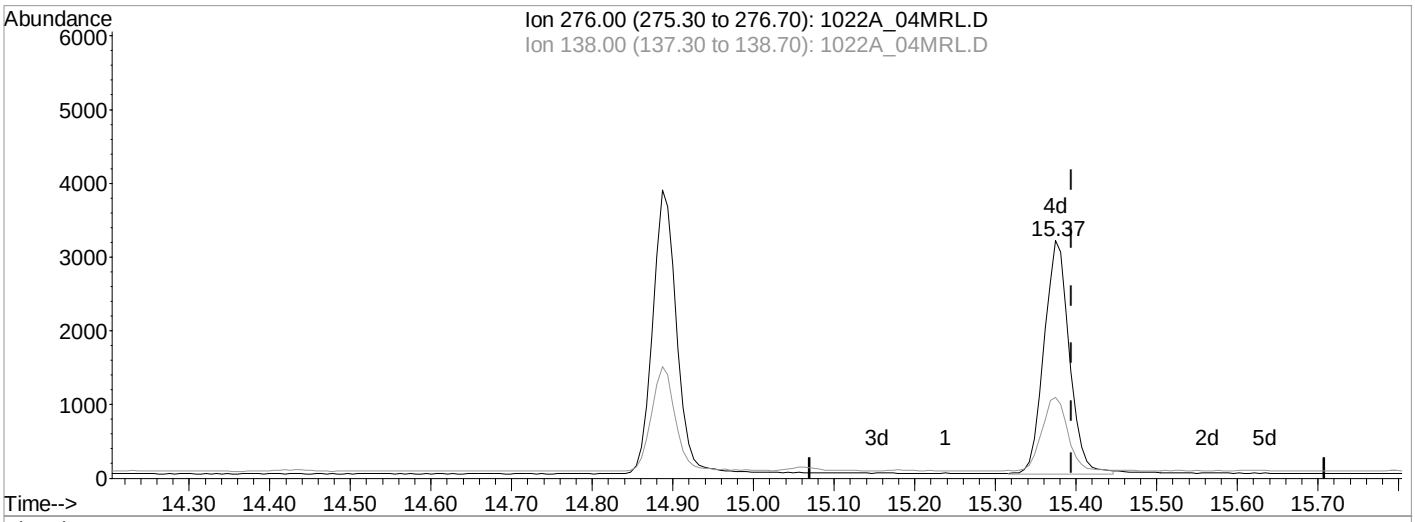
response 9

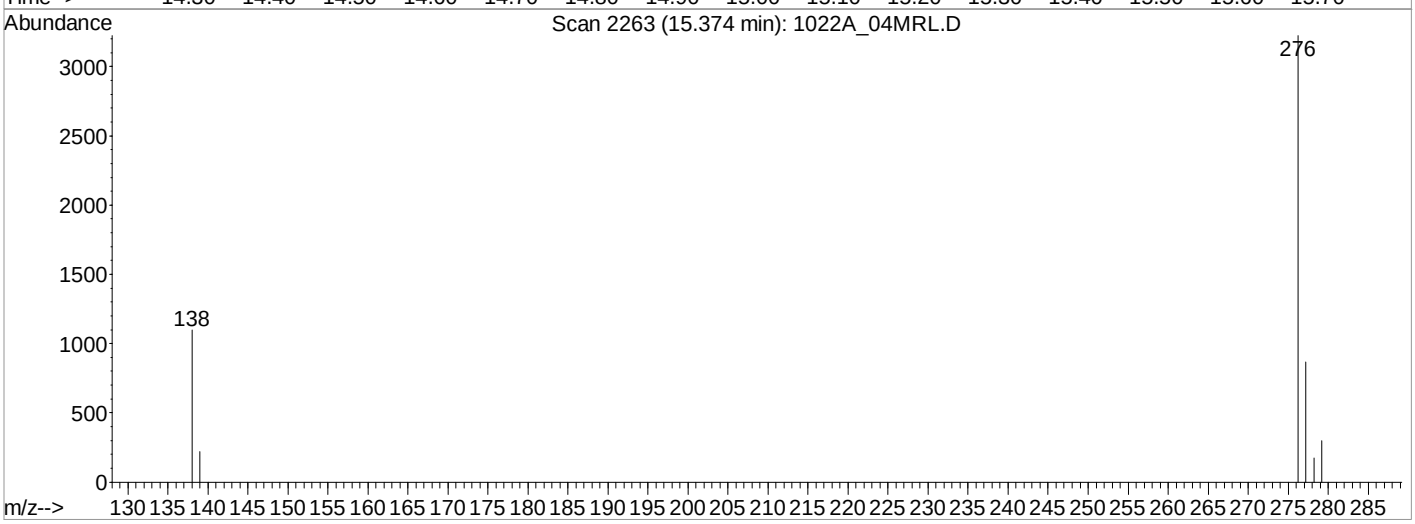
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	20.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_04MRL.D

(28) Benzo(g,h,i)perylene (MT)

15.37min (-0.020) 4.9448444 ppb m

response 6906

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	34.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 14.D Vial: 12
Acq On : 22 Oct 2014 3:49 pm Operator: 280
Sample : SSCV SIMLVI 40 PPB 14J10801 Inst : SVGCMS7
Misc : SIM SSCV Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:07 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	83638	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	45654	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	74400	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	61209	40.00 ppb	0.00
22) Perylene-d12	13.32	264	60030	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	61	0.1008497 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 5.04%#		
7) 2-Fluorobiphenyl	6.72	172	191	0.1334604 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 6.67%#		
19) p-Terphenyl-d14	10.57	244	372	0.2577365 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 12.89%#		

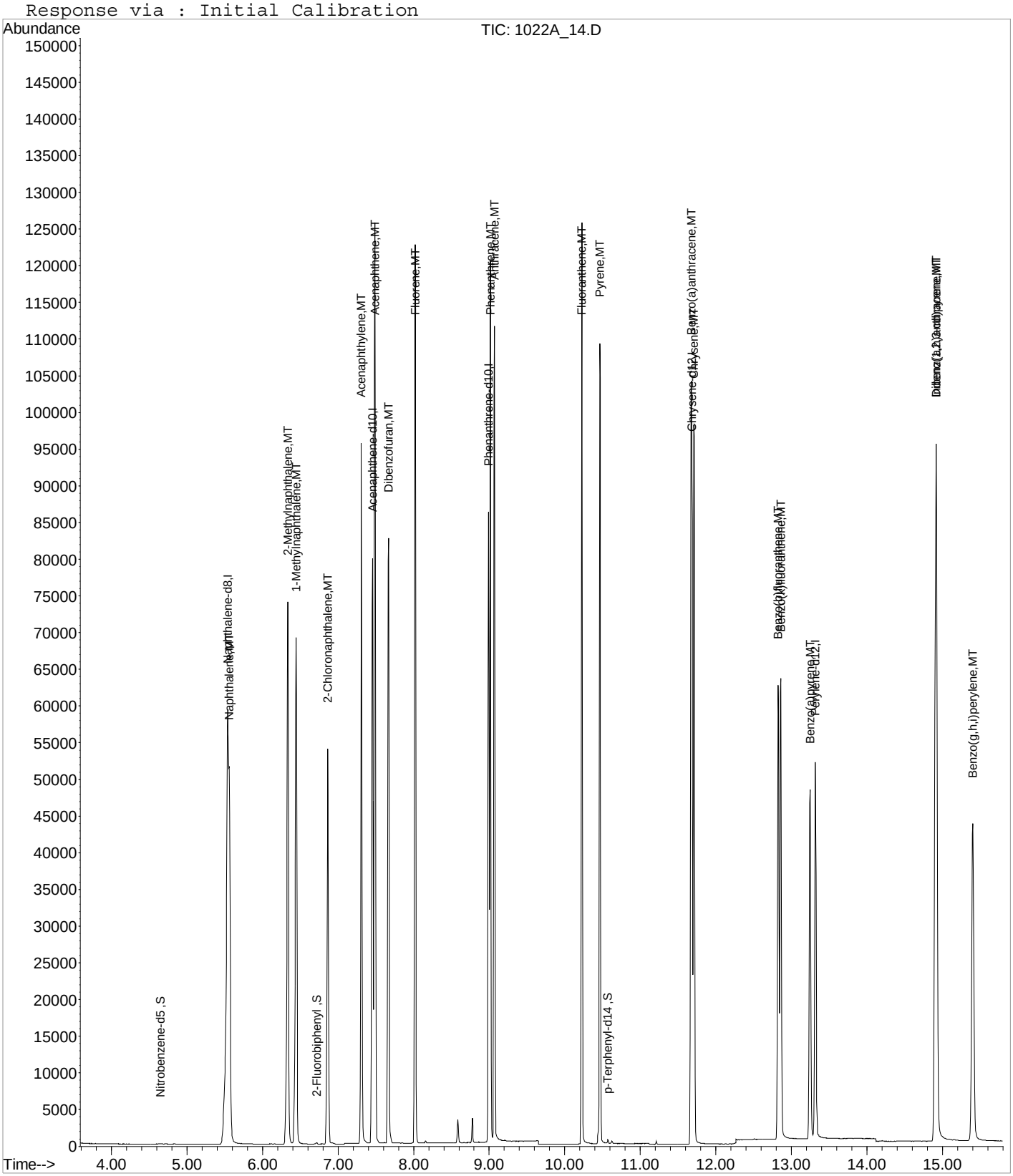
Target Compounds					Qvalue
3) Naphthalene	5.56	128	87327	40.3672509 ppb	99
4) 2-Methylnaphthalene	6.34	142	56351	41.0864530 ppb	95
5) 1-Methylnaphthalene	6.45	142	52592	41.1757928 ppb	98
8) 2-Chloronaphthalene	6.87	162	49388	41.3341427 ppb	93
9) Acenaphthylene	7.31	152	76881	40.4587777 ppb	99
10) Acenaphthene	7.49	153	53193	41.5172835 ppb	93
11) Dibenzofuran	7.67	168	70213	41.6987543 ppb	98
12) Fluorene	8.02	166	60951	42.1088755 ppb	99
14) Phenanthrene	9.01	178	84136	41.5749488 ppb	100
15) Anthracene	9.07	178	78985	40.6381264 ppb	98
16) Fluoranthene	10.22	202	85185	41.8215833 ppb	99
18) Pyrene	10.46	202	77424	41.5120309 ppb	98
20) Benzo(a)anthracene	11.67	228	67158	40.8147056 ppb	95
21) Chrysene	11.71	228	67193	41.9977697 ppb	97
23) Benzo(b)fluoranthene	12.82	252	67362	40.7659299 ppb	98
24) Benzo(k)fluoranthene	12.86	252	63681	41.6518725 ppb	100
25) Benzo(a)pyrene	13.25	252	54800	40.9112907 ppb	98
26) Indeno(1,2,3-cd)pyrene	14.91	276	67778	40.8307949 ppb #	80
27) Dibenz(a,h)anthracene	14.91	278	56737	40.2626014 ppb #	85
28) Benzo(g,h,i)perylene	15.40	276	57882	40.8413459 ppb #	43

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 14.D Vial: 12
Acq On : 22 Oct 2014 3:49 pm Operator: 280
Sample : SSCV SIMLVI 40 PPB 14J10801 Inst : SVGCMS7
Misc : SIM SSCV Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:07 2014 Quant Results File: SS07J22N.RES

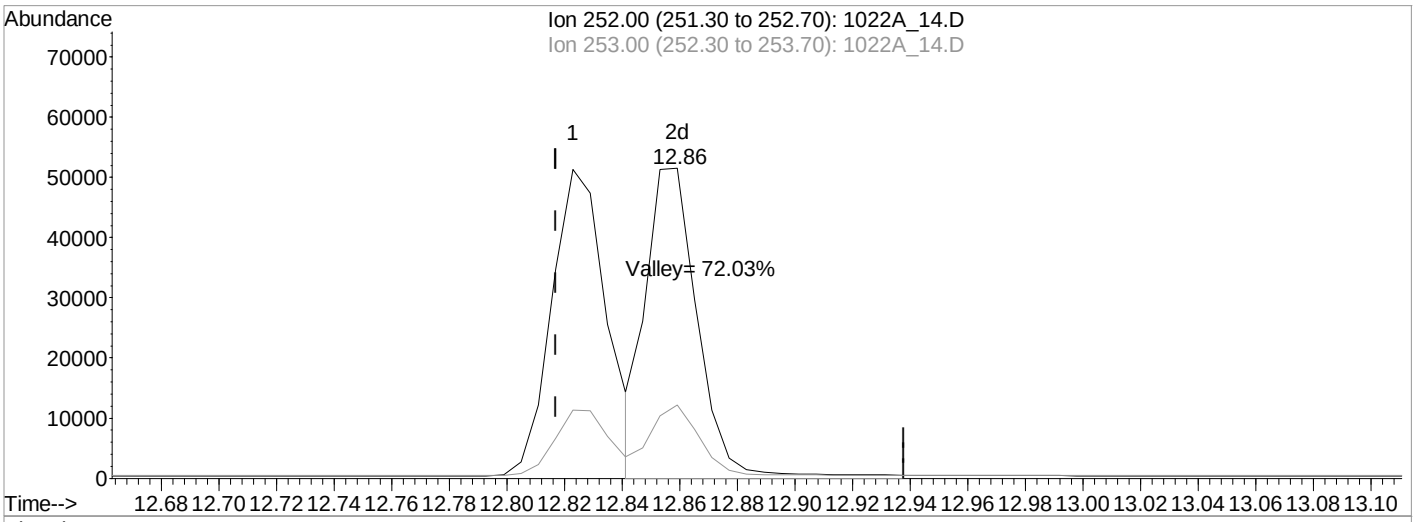
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

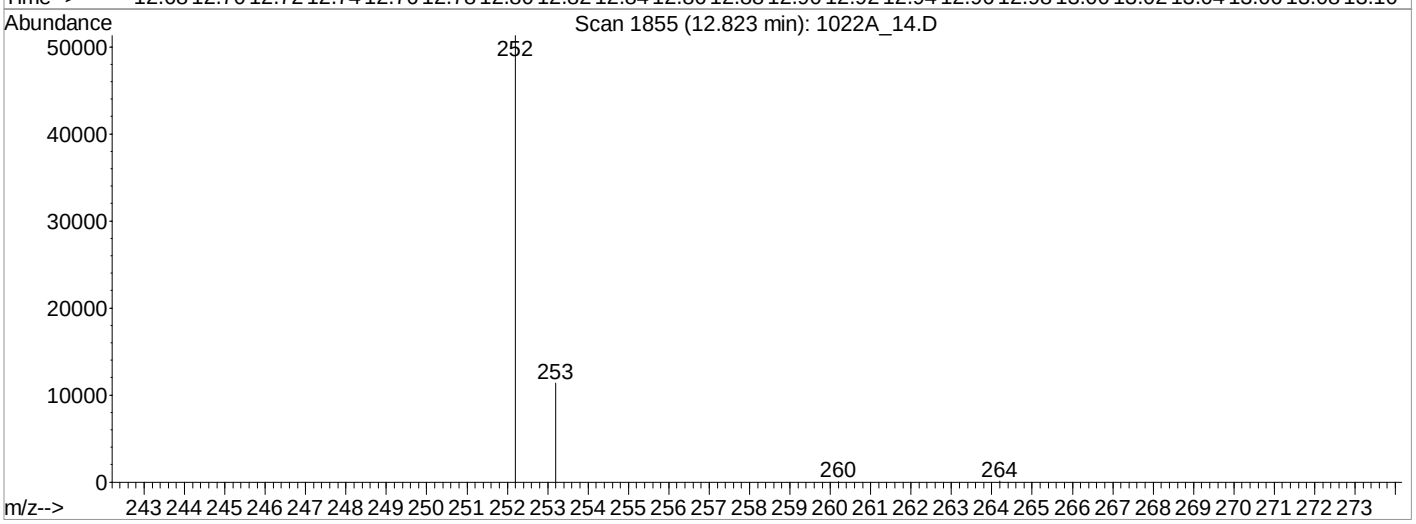


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 14.D Vial: 12
Acq On : 22 Oct 2014 3:49 pm Operator: 280
Sample : SSCV SIMLVI 40 PPB 14J10801 Inst : SVGCMS7
Misc : SIM SSCV Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:07 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_14.D

(23) Benzo(b)fluoranthene (MT)

12.82min (+0.006) 40.7659299 ppb

Qvalue = 98

response 67362

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	21.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 02.D Vial: 3
Acq On : 22 Oct 2014 10:43 am Operator: 280
Sample : MSTD SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:04 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:04:38 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	89270	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	49543	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	80296	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	64912	40.00 ppb	0.00
22) Perylene-d12	13.31	264	63335	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	24845	40.0000000 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 2000.00%#		
7) 2-Fluorobiphenyl	6.72	172	59875	40.0000000 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 2000.00%#		
19) p-Terphenyl-d14	10.57	244	59015	40.0000000 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 2000.00%#		

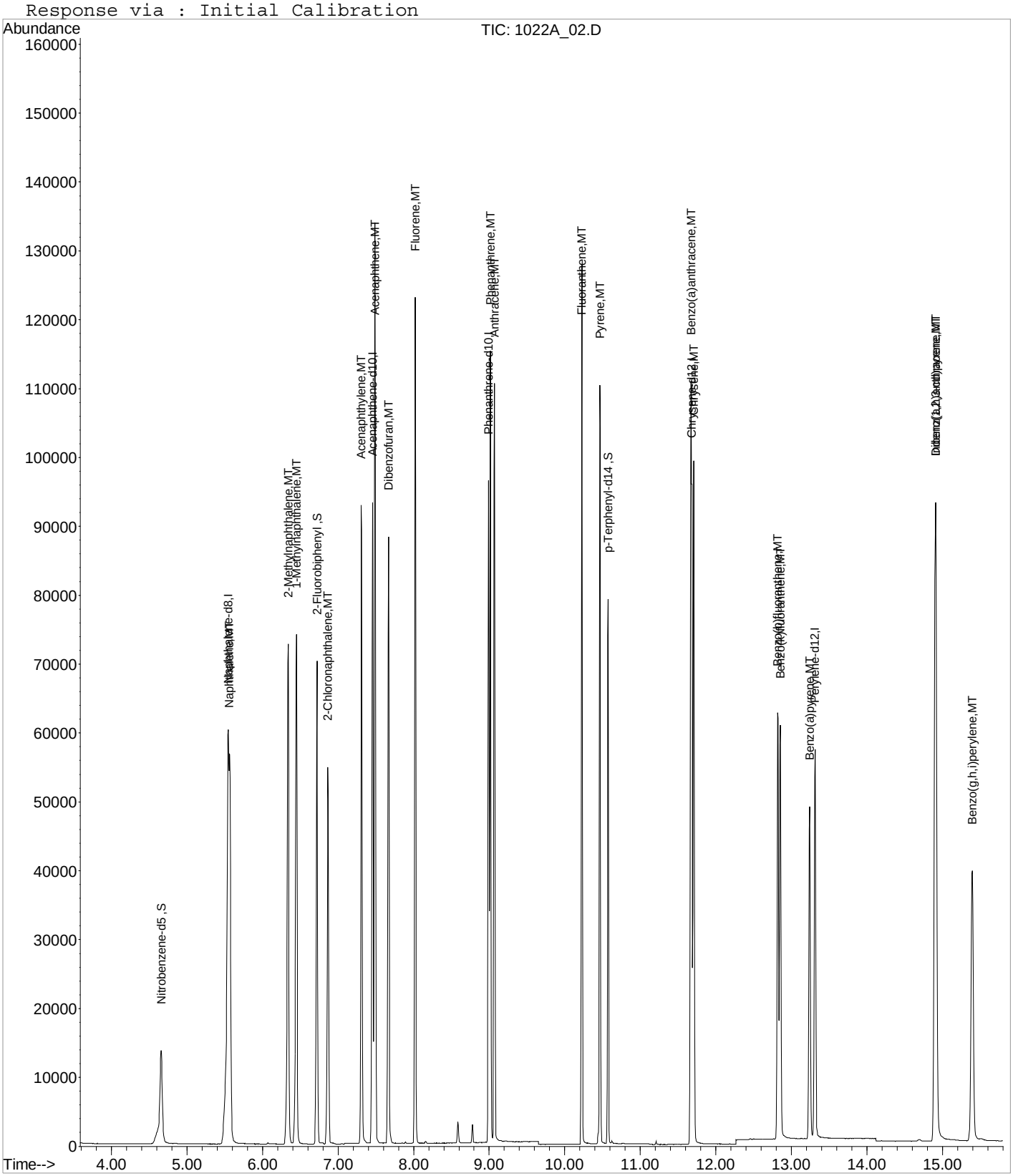
Target Compounds						Qvalue
3) Naphthalene	5.57	128	87478	40.0000000 ppb		100
4) 2-Methylnaphthalene	6.34	142	56512	40.0000000 ppb		94
5) 1-Methylnaphthalene	6.45	142	52773	40.0000000 ppb		95
8) 2-Chloronaphthalene	6.87	162	50324	40.0000000 ppb		99
9) Acenaphthylene	7.31	152	80183	40.0000000 ppb		99
10) Acenaphthene	7.49	153	53258	40.0000000 ppb		95
11) Dibenzofuran	7.67	168	70188	40.0000000 ppb		100
12) Fluorene	8.02	166	60864	40.0000000 ppb		100
14) Phenanthrene	9.02	178	82590	40.0000000 ppb		97
15) Anthracene	9.07	178	80268	40.0000000 ppb		99
16) Fluoranthene	10.22	202	83677	40.0000000 ppb		99
18) Pyrene	10.46	202	75994	40.0000000 ppb		98
20) Benzo(a)anthracene	11.67	228	66250	40.0000000 ppb		99
21) Chrysene	11.71	228	65239	40.0000000 ppb		99
23) Benzo(b)fluoranthene	12.82	252	65907	40.0000000 ppb		95
24) Benzo(k)fluoranthene	12.85	252	62907	40.0000000 ppb		98
25) Benzo(a)pyrene	13.24	252	54195	40.0000000 ppb		98
26) Indeno(1,2,3-cd)pyrene	14.91	276	65822	40.0000000 ppb	#	80
27) Dibenz(a,h)anthracene	14.91	278	55593	40.0000000 ppb	#	89
28) Benzo(g,h,i)perylene	15.39	276	56486	40.0000000 ppb	#	39

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 02.D Vial: 3
Acq On : 22 Oct 2014 10:43 am Operator: 280
Sample : MSTD SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:04 2014 Quant Results File: SS07J22N.RES

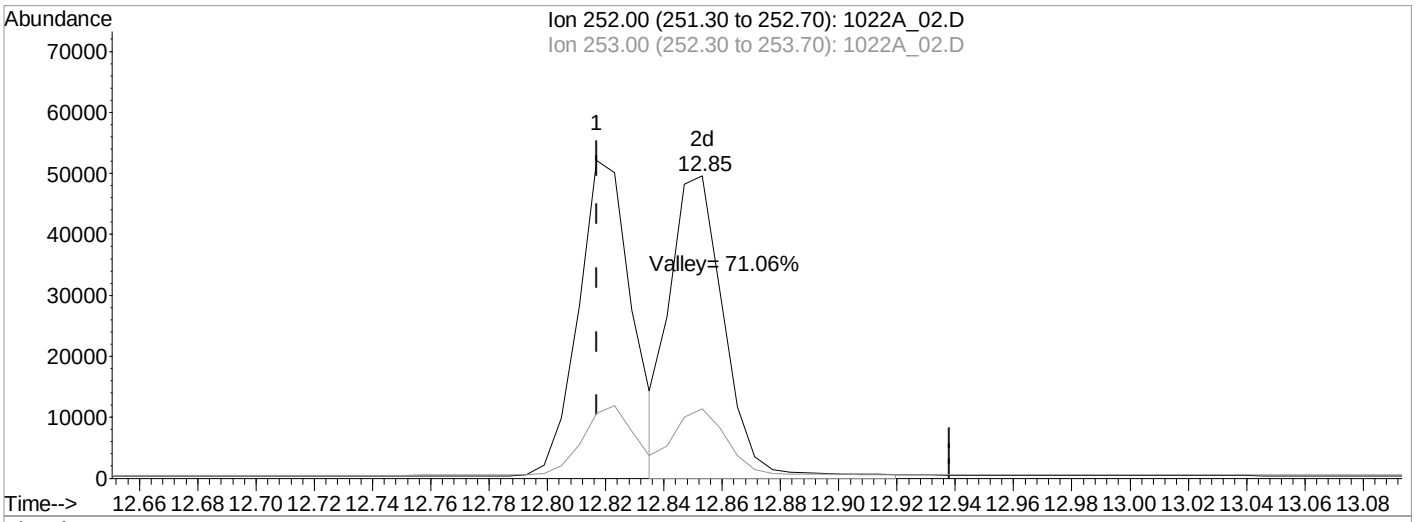
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:04:38 2014
Response via : Initial Calibration

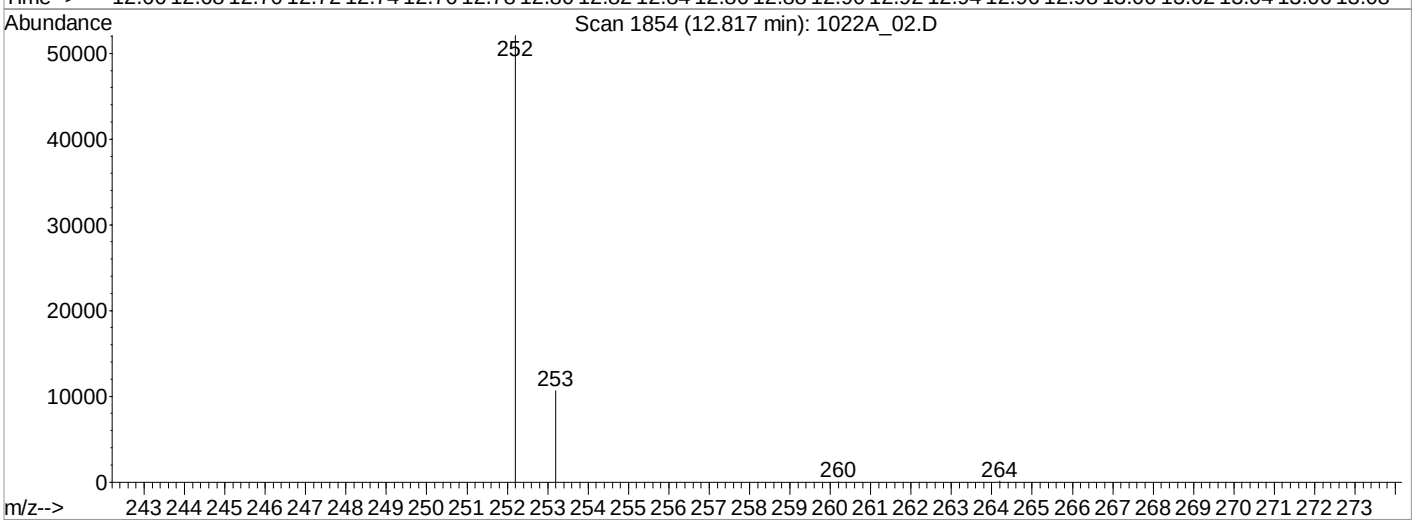


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 02.D Vial: 3
Acq On : 22 Oct 2014 10:43 am Operator: 280
Sample : MSTD SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_02.D

(23) Benzo(b)fluoranthene (MT)

12.82min (0.000) 40.0000000 ppb

Qvalue = 95

response 65907

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	19.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	88842	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	48796	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	78396	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60526	40.00 ppb	0.00
22) Perylene-d12	13.31	264	59889	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	607	0.9909015 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 49.55%	
7) 2-Fluorobiphenyl	6.72	172	1498	1.0079718 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 50.40%#	
19) p-Terphenyl-d14	10.57	244	1439	1.0224941 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 51.12%#	

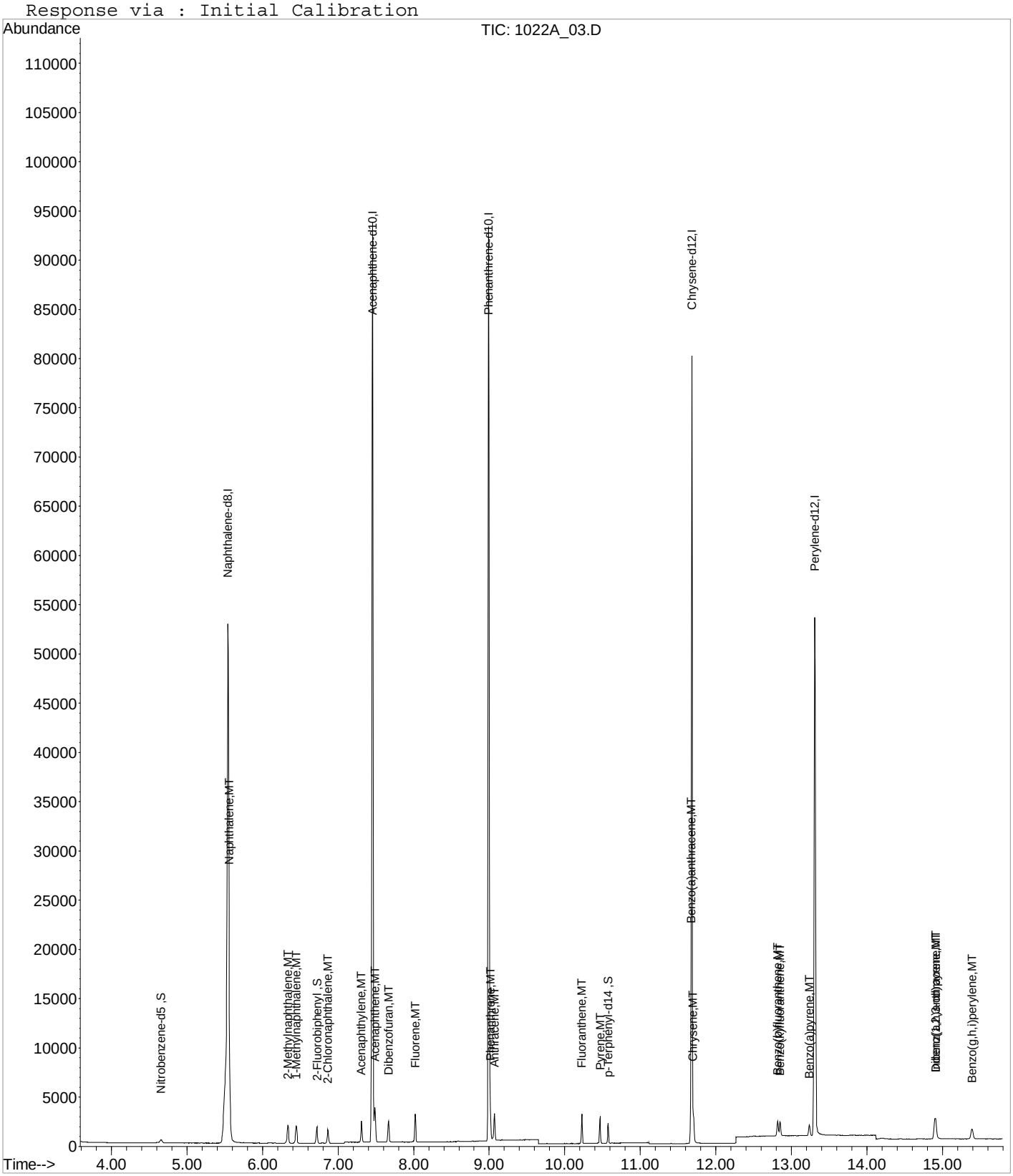
Target Compounds					Qvalue
3) Naphthalene	5.57	128	4201	1.3174514 ppb	100
4) 2-Methylnaphthalene	6.34	142	1418	1.0042399 ppb	100
5) 1-Methylnaphthalene	6.45	142	1319	1.0022798 ppb	95
8) 2-Chloronaphthalene	6.87	162	1243	1.0015589 ppb	96
9) Acenaphthylene	7.31	152	1864	0.9712506 ppb	98
10) Acenaphthene	7.49	153	1327	1.0059223 ppb	92
11) Dibenzofuran	7.67	168	1763	1.0099555 ppb	95
12) Fluorene	8.02	166	1464	0.9883019 ppb	100
14) Phenanthrene	9.02	178	2145	1.0310287 ppb	99
15) Anthracene	9.07	178	1844	0.9697055 ppb	98
16) Fluoranthene	10.22	202	2002	0.9900048 ppb	99
18) Pyrene	10.47	202	1845	1.0203291 ppb	98
20) Benzo(a)anthracene	11.66	228	1698	1.0473918 ppb	94
21) Chrysene	11.70	228	1595	1.0238231 ppb	96
23) Benzo(b)fluoranthene	12.82	252	1698	1.0429891 ppb	97
24) Benzo(k)fluoranthene	12.85	252	1397	0.9687573 ppb	93
25) Benzo(a)pyrene	13.23	252	1271	0.9960200 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.90	276	1609m	1.0370552 ppb	
27) Dibenz(a,h)anthracene	14.91	278	1312	0.9991601 ppb #	88
28) Benzo(g,h,i)perylene	15.39	276	1418m	1.0334086 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: SS07J22N.RES

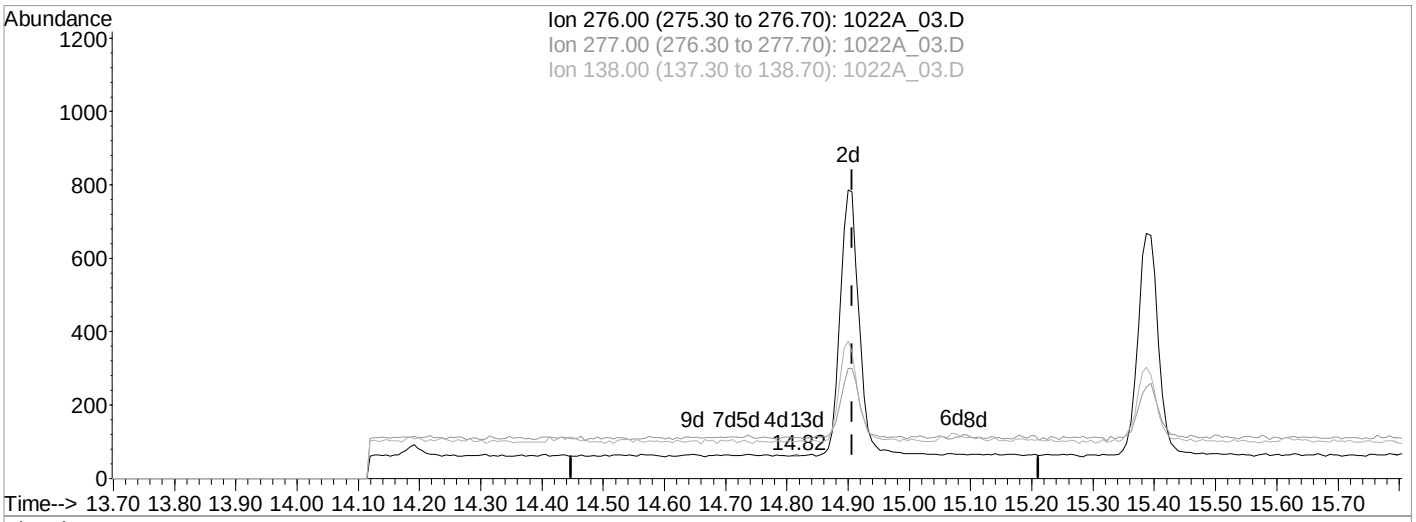
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Initial Calibration

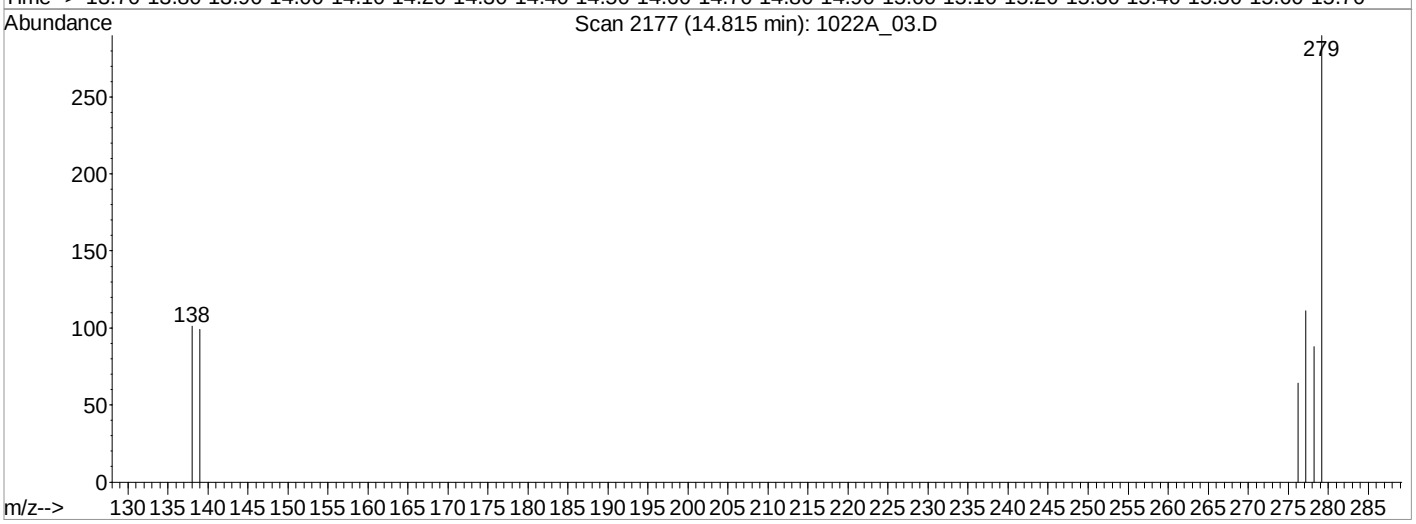


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Multiple Level Calibration





TIC: 1022A_03.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.82min (-0.091) 0.0019336 ppb

Qvalue = 89

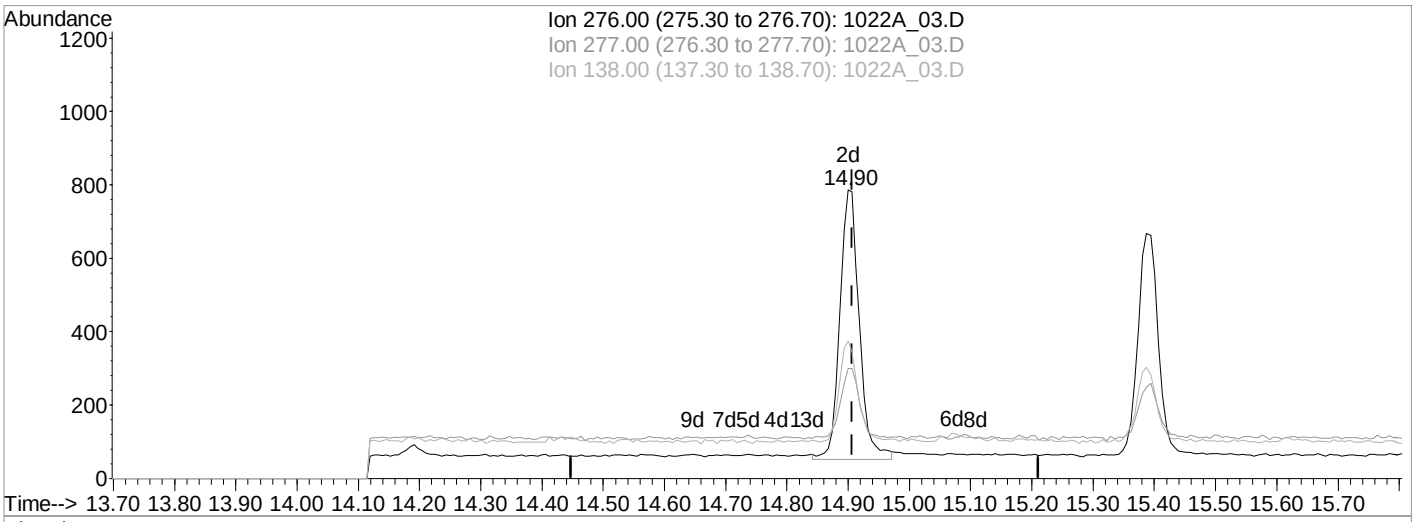
response 3

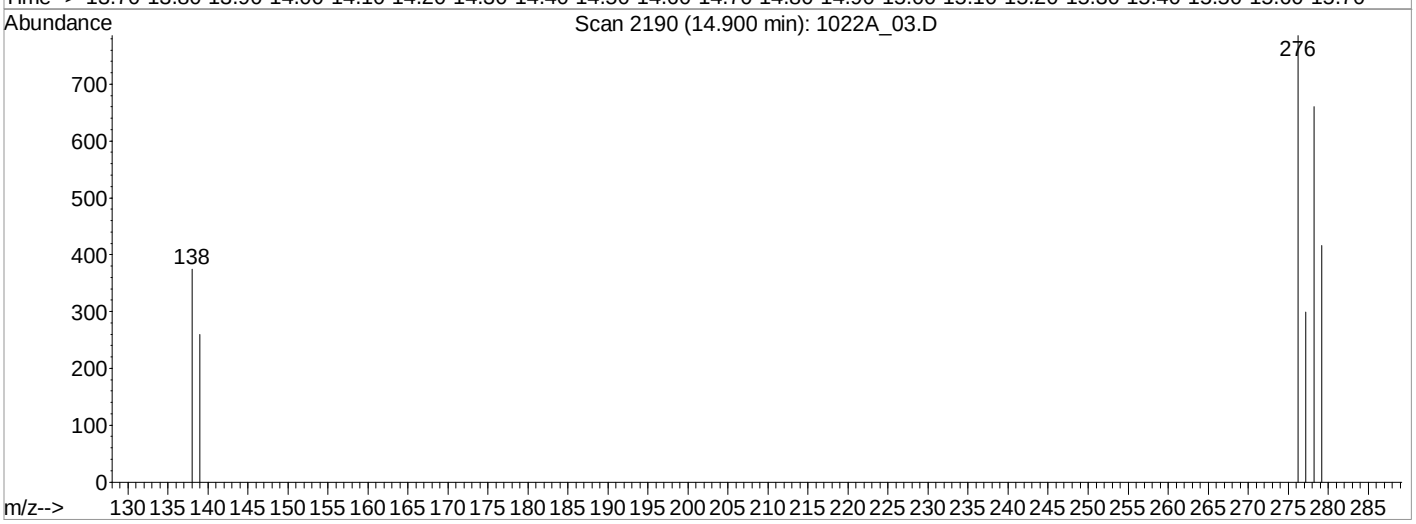
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	25.00
138.00	11.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Multiple Level Calibration





TIC: 1022A_03.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.90min (-0.007) 1.0370552 ppb m

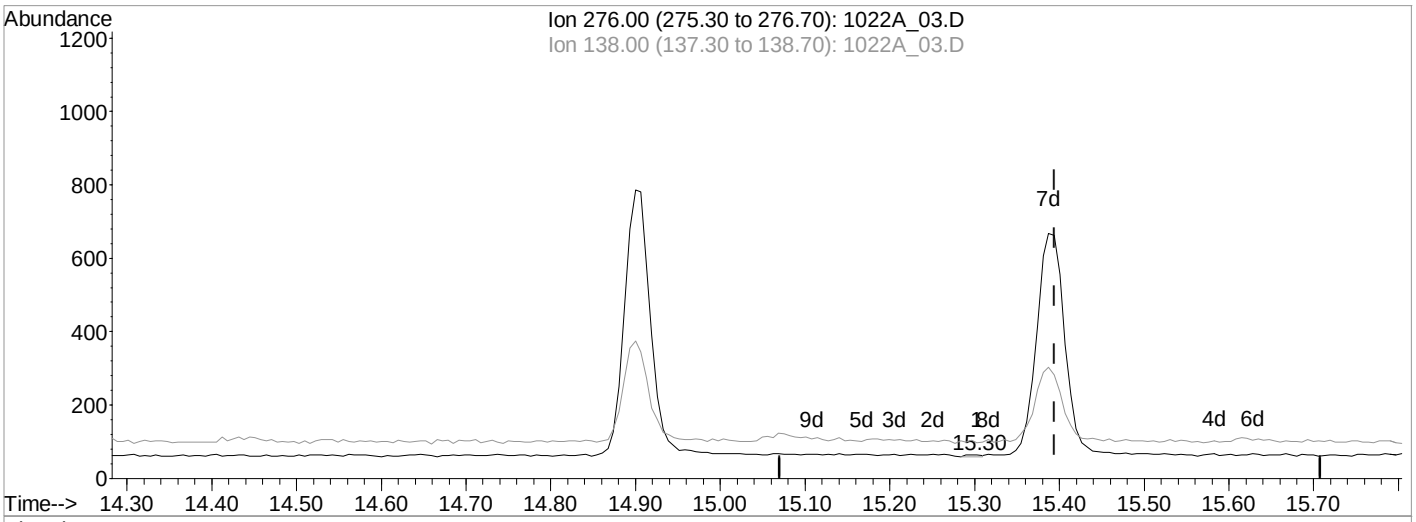
response 1609

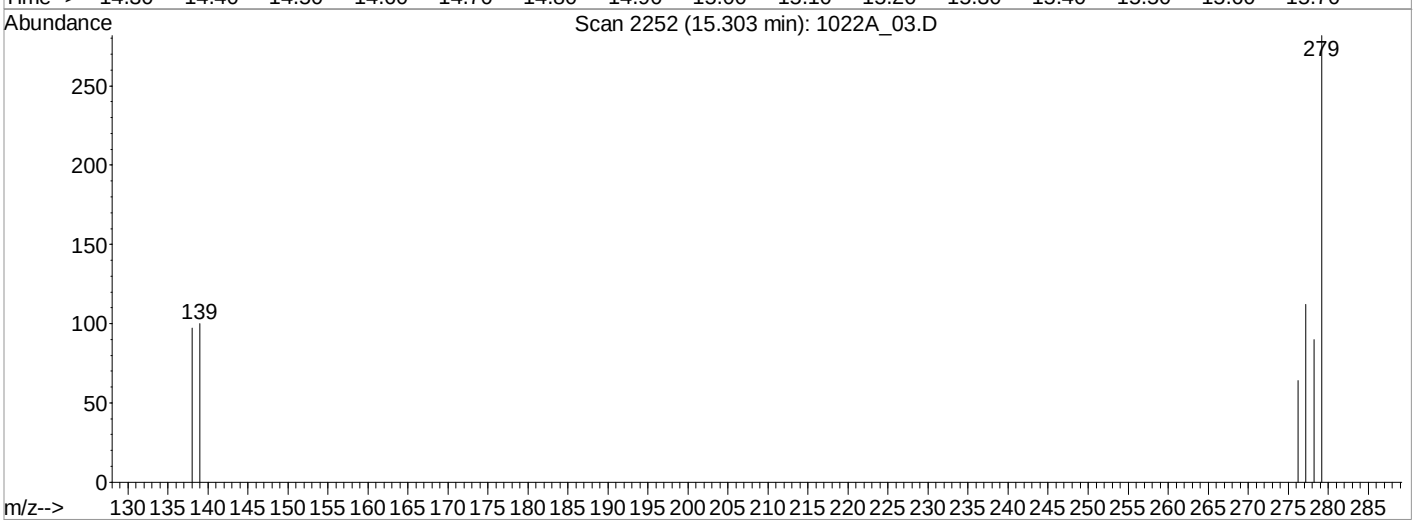
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	38.04
138.00	11.90	47.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Multiple Level Calibration





TIC: 1022A_03.D

(28) Benzo(g,h,i)perylene (MT)

15.30min (-0.091) 0.0043727 ppb

Qvalue = 74

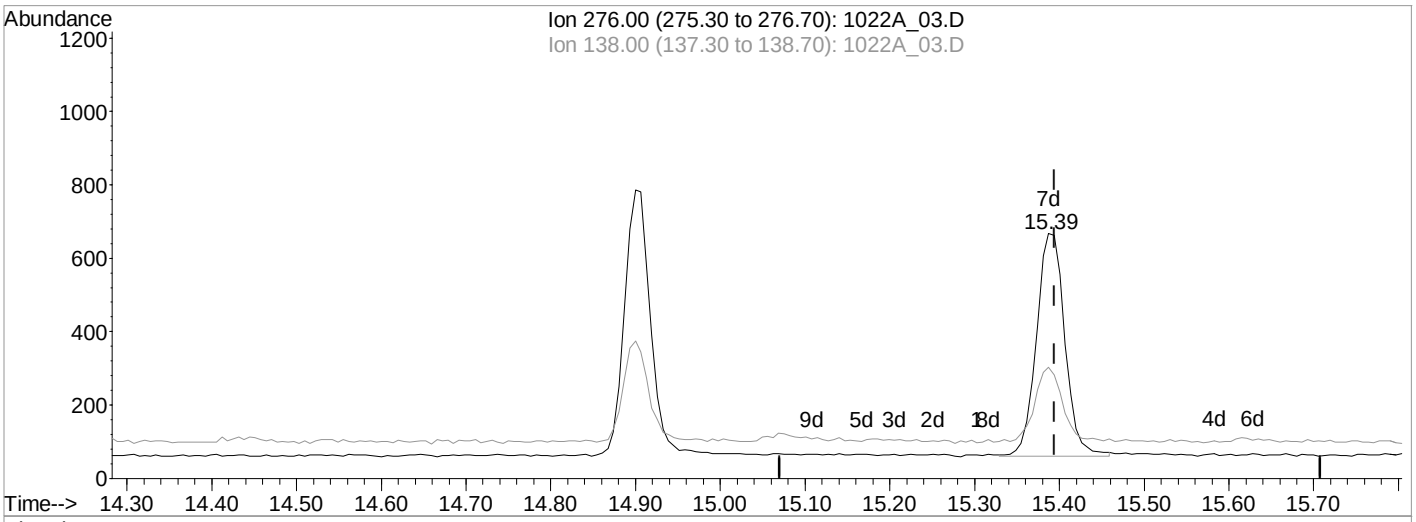
response 6

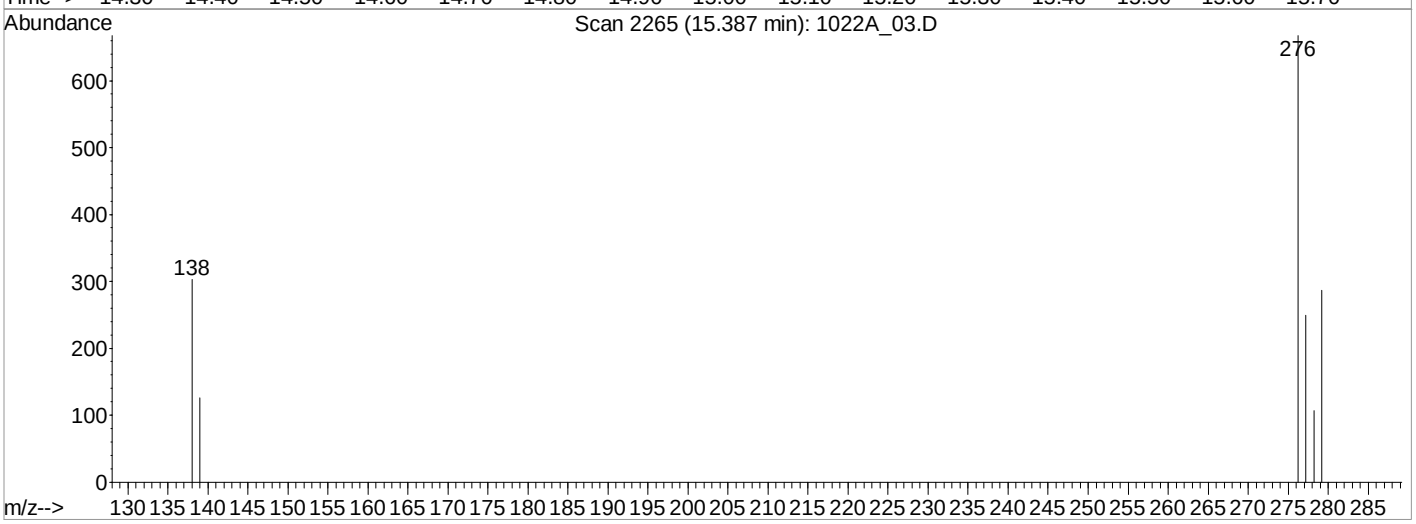
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Multiple Level Calibration





TIC: 1022A_03.D

(28) Benzo(g,h,i)perylene (MT)

15.39min (-0.007) 1.0334086 ppb m

response 1418

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	45.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	87717	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	47923	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	77734	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60354	40.00 ppb	0.00
22) Perylene-d12	13.30	264	59156	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	3019	4.9915962 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 249.58%#		
7) 2-Fluorobiphenyl	6.72	172	7691	5.2693810 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 263.47%#		
19) p-Terphenyl-d14	10.57	244	7184	5.1192017 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 255.96%#		

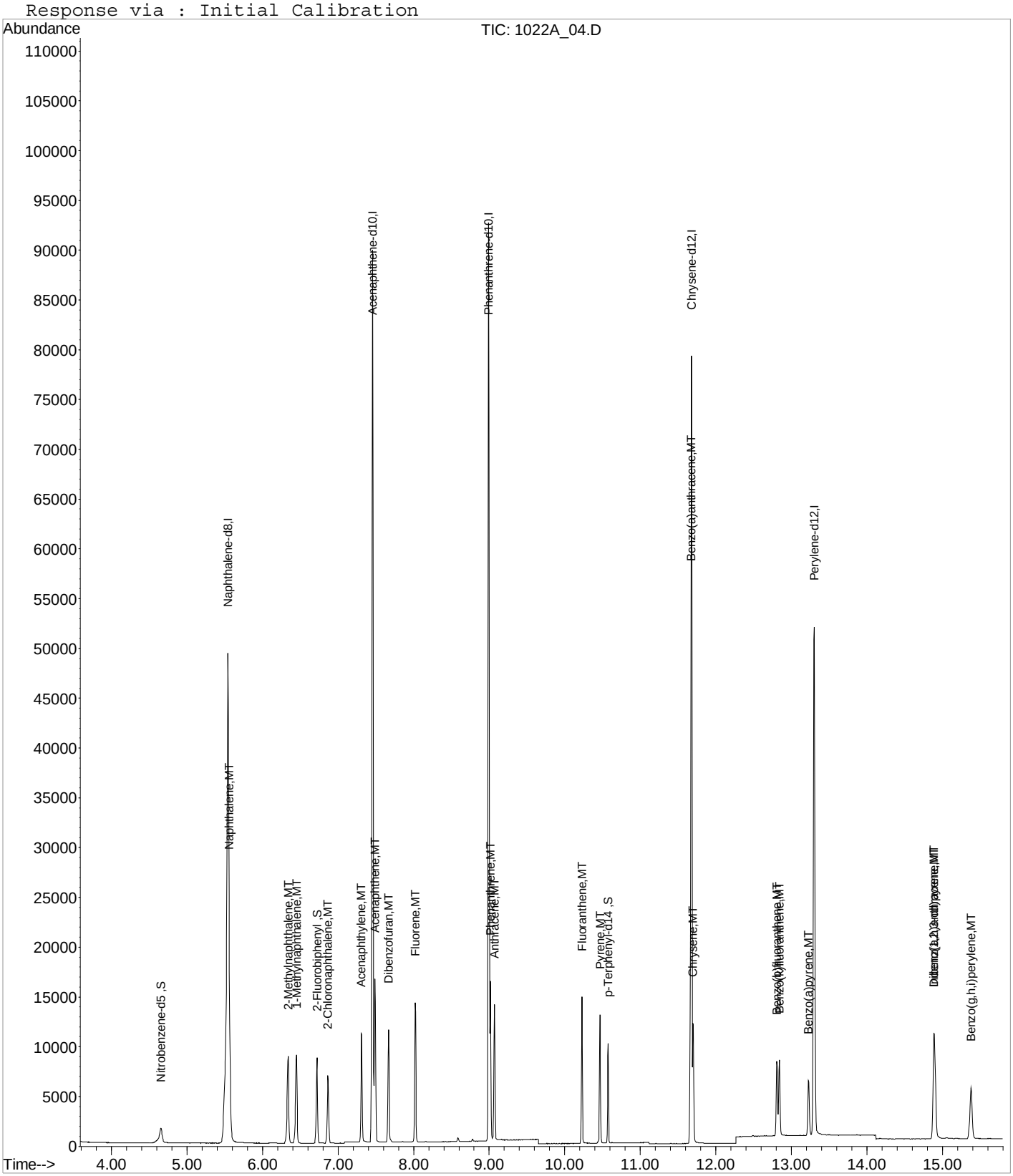
Target Compounds					Qvalue
3) Naphthalene	5.57	128	13197	4.1917145 ppb	99
4) 2-Methylnaphthalene	6.34	142	7227	5.1838670 ppb	94
5) 1-Methylnaphthalene	6.45	142	6712	5.1657179 ppb	96
8) 2-Chloronaphthalene	6.87	162	6385	5.2384945 ppb	98
9) Acenaphthylene	7.31	152	9625	5.1065353 ppb	100
10) Acenaphthene	7.49	153	6794	5.2439591 ppb	95
11) Dibenzofuran	7.67	168	8992	5.2450115 ppb	96
12) Fluorene	8.02	166	7601	5.2246775 ppb	97
14) Phenanthrene	9.02	178	10556	5.1171214 ppb	98
15) Anthracene	9.07	178	9521	5.0494537 ppb	99
16) Fluoranthene	10.23	202	10280	5.1268336 ppb	97
18) Pyrene	10.47	202	9297	5.1561157 ppb	98
20) Benzo(a)anthracene	11.66	228	7977	4.9345434 ppb	99
21) Chrysene	11.70	228	8054	5.1845585 ppb	97
23) Benzo(b)fluoranthene	12.80	252	8054	5.0084340 ppb	97
24) Benzo(k)fluoranthene	12.84	252	7615	5.3460962 ppb	99
25) Benzo(a)pyrene	13.22	252	6462	5.1266981 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.89	276	7890m	5.0475334 ppb	
27) Dibenz(a,h)anthracene	14.89	278	6628	5.1101305 ppb #	88
28) Benzo(g,h,i)perylene	15.37	276	6930m	5.0963049 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: SS07J22N.RES

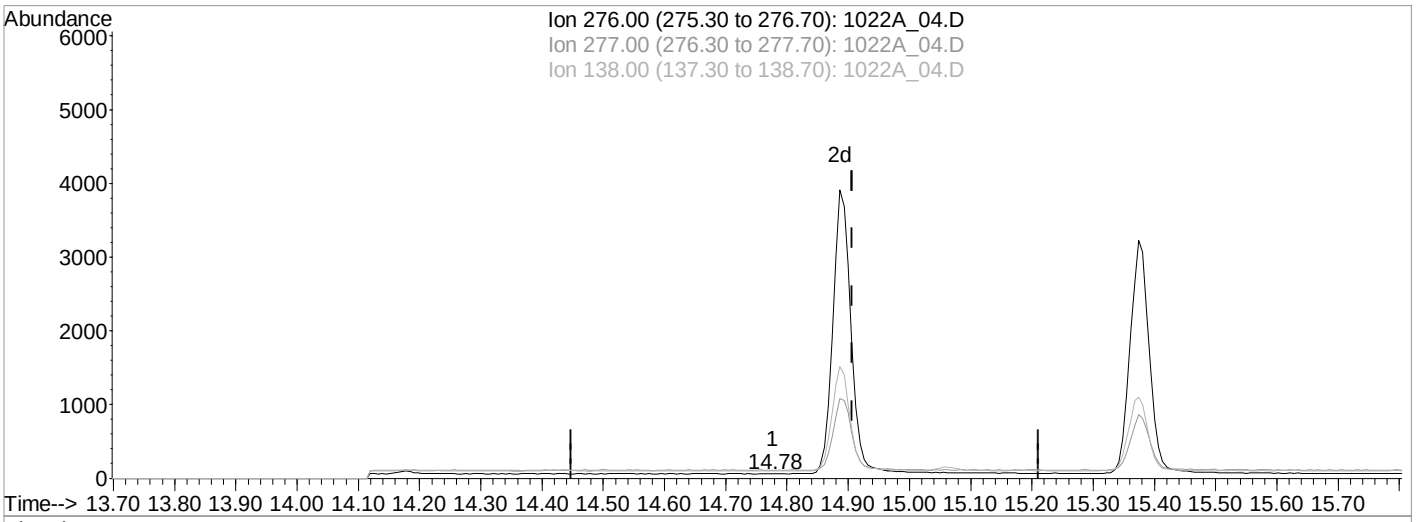
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Initial Calibration

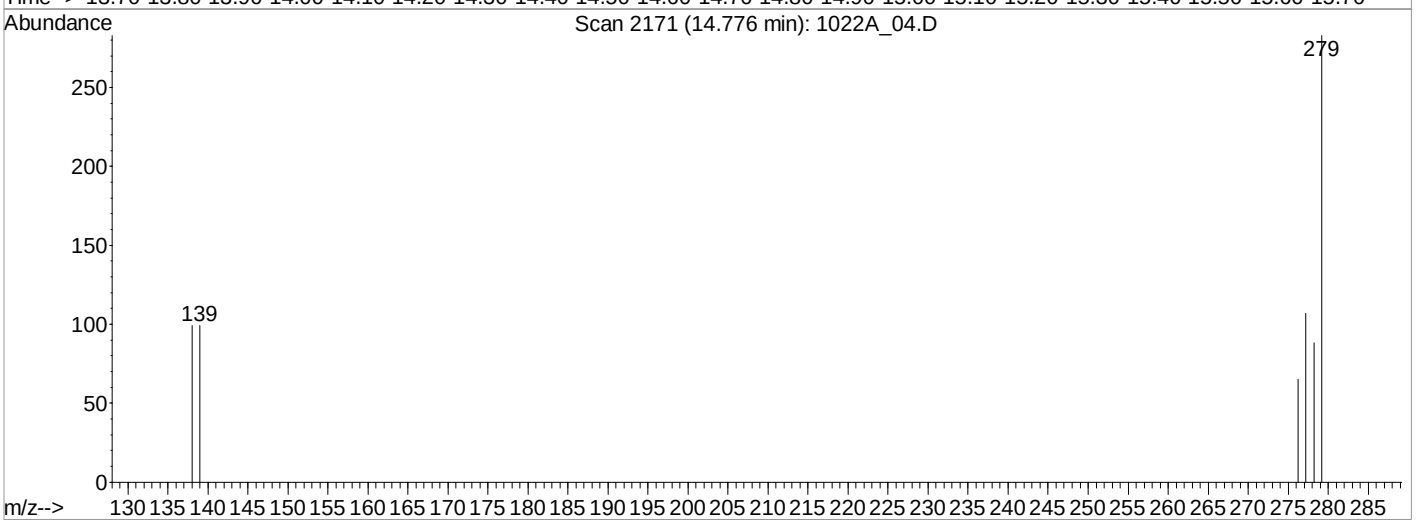


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Multiple Level Calibration





TIC: 1022A_04.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.78min (-0.130) 0.0070371 ppb

Qvalue = 77

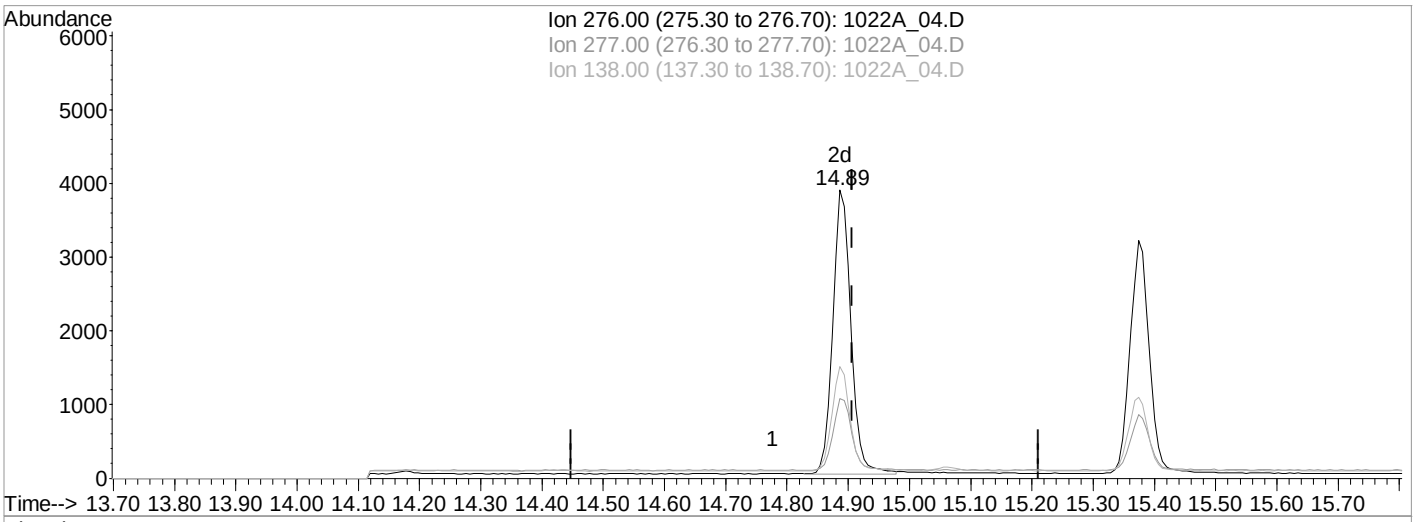
response 11

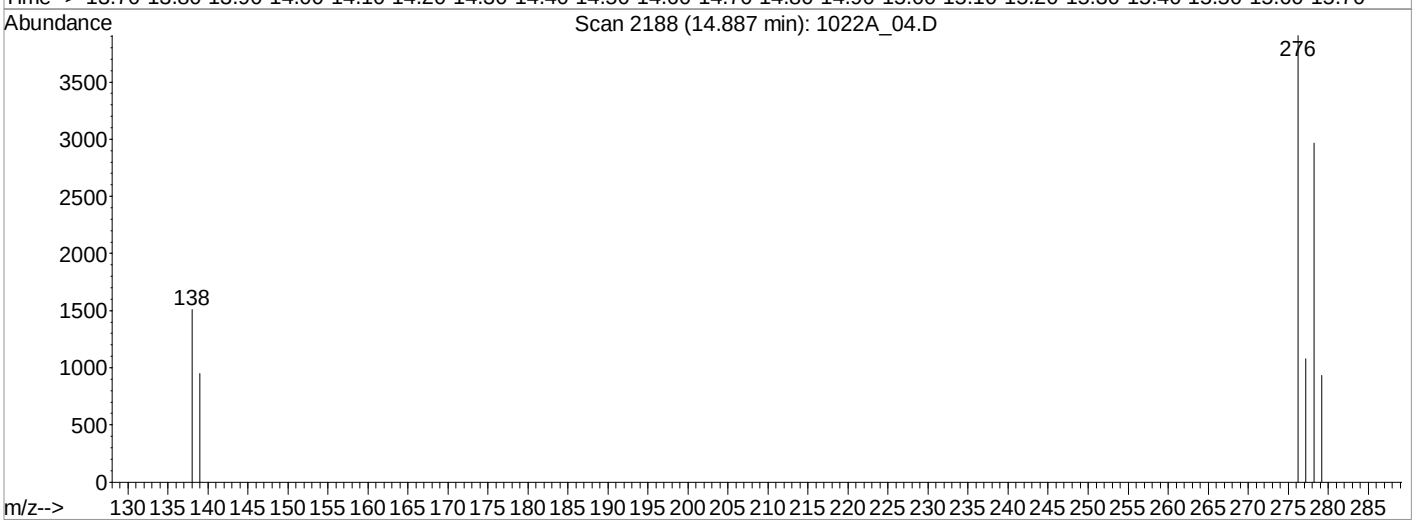
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	16.67
138.00	11.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Multiple Level Calibration





TIC: 1022A_04.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.89min (-0.020) 5.0475334 ppb m

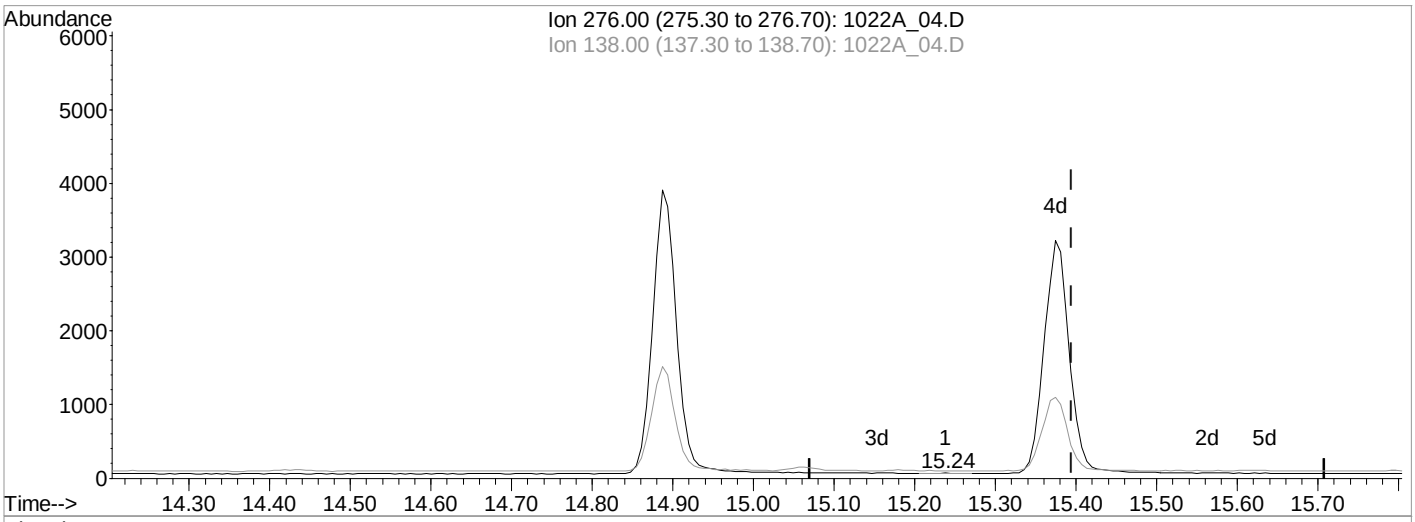
response 7890

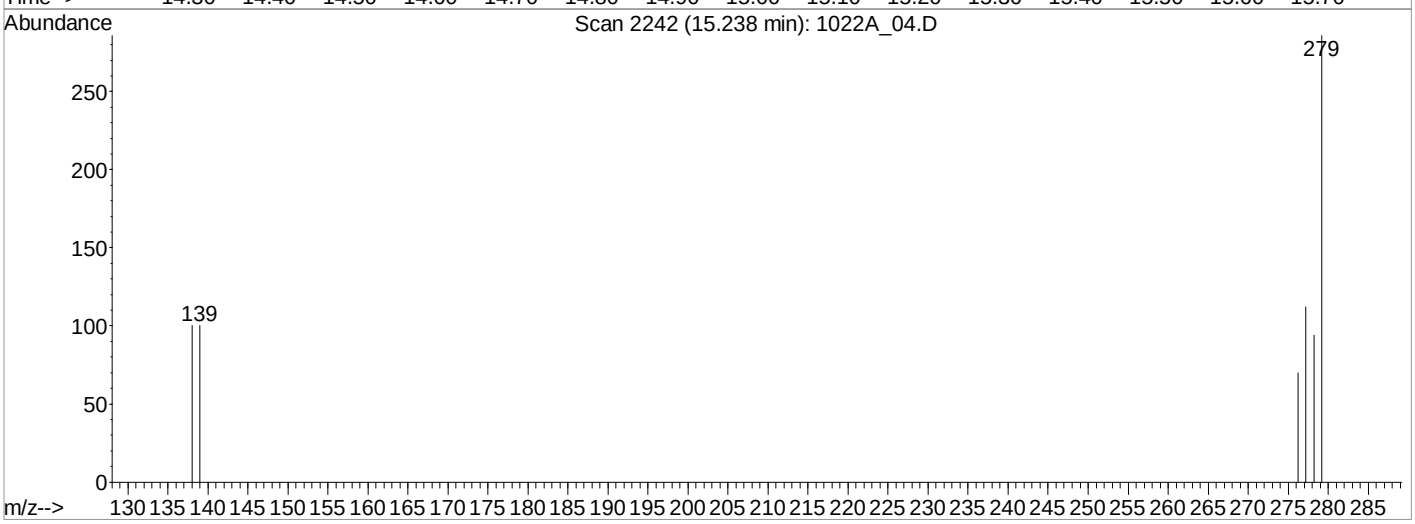
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	27.65
138.00	11.90	38.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Multiple Level Calibration





TIC: 1022A_04.D

(28) Benzo(g,h,i)perylene (MT)

15.24min (-0.156) 0.0066186 ppb

Qvalue = 72

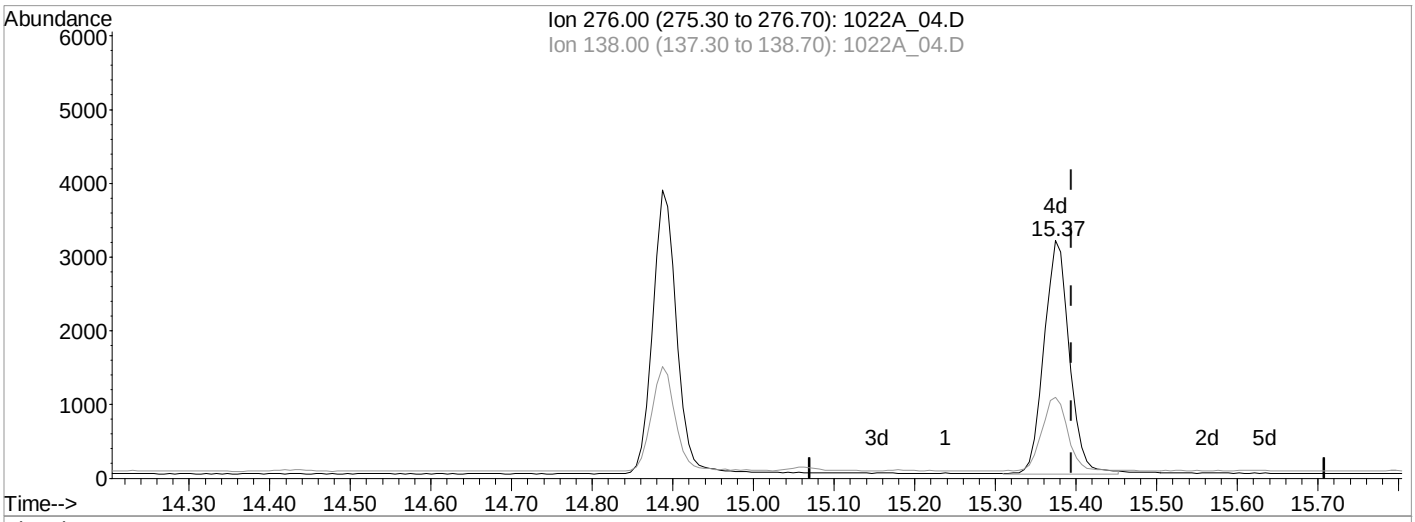
response 9

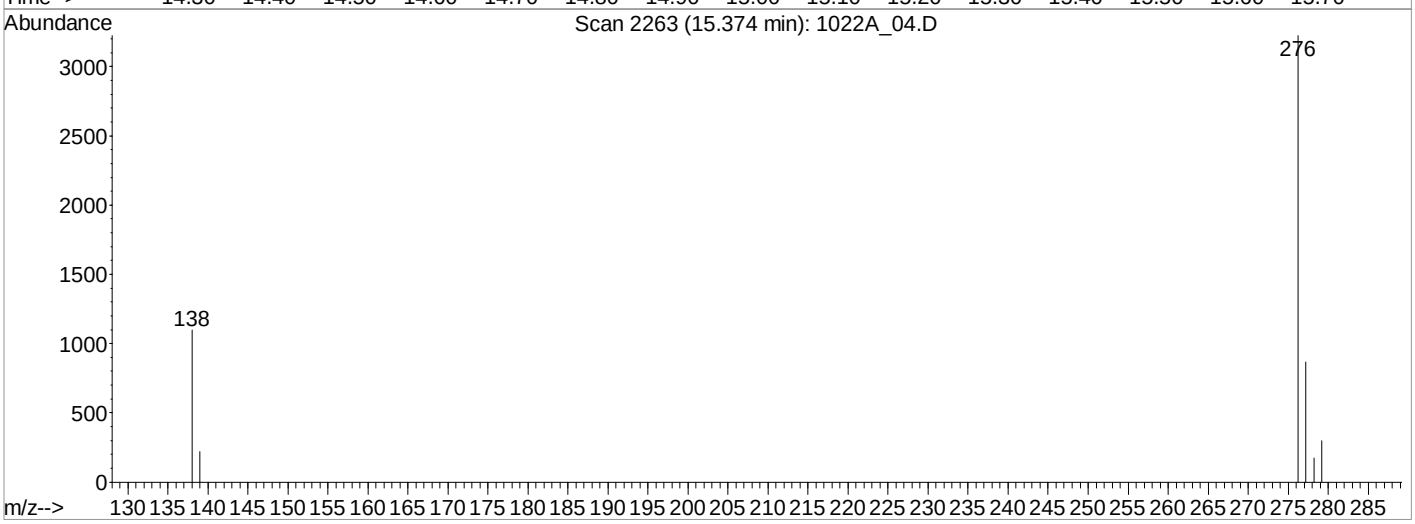
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	20.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Multiple Level Calibration





TIC: 1022A_04.D

(28) Benzo(g,h,i)perylene (MT)

15.37min (-0.020) 5.0963049 ppb m

response 6930

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	34.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 05.D Vial: 6
Acq On : 22 Oct 2014 11:52 am Operator: 280
Sample : STD SIMLVI 10 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:29 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	86772	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	47454	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	76630	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60285	40.00 ppb	0.00
22) Perylene-d12	13.31	264	58845	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	5713	9.5540630 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 477.70%#	
7) 2-Fluorobiphenyl	6.72	172	14094	9.5797032 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 478.99%#	
19) p-Terphenyl-d14	10.57	244	13351	9.4495016 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 472.48%#	

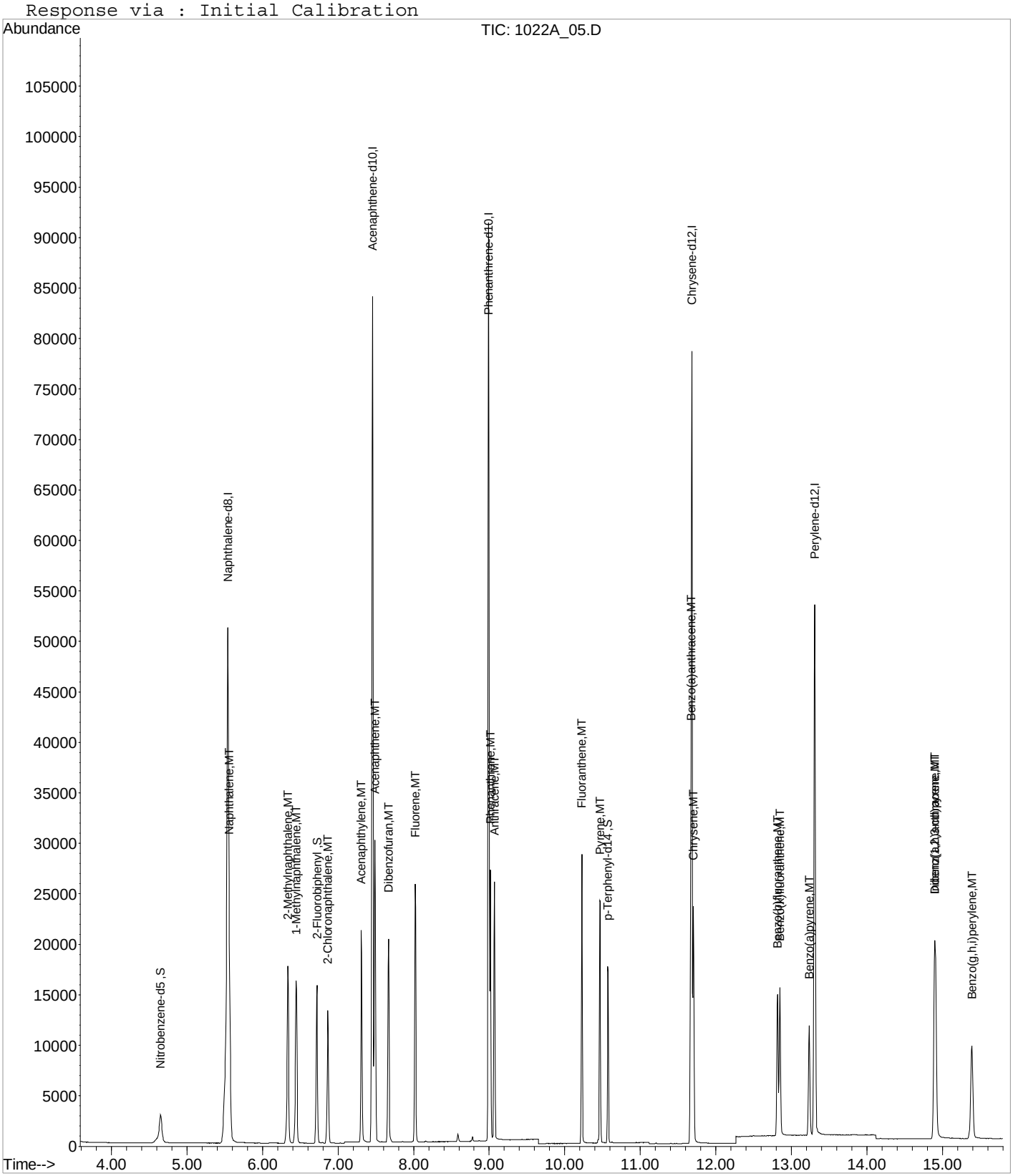
Target Compounds					Qvalue
3) Naphthalene	5.57	128	22108	7.5028540 ppb	100
4) 2-Methylnaphthalene	6.34	142	13230	9.4769518 ppb	98
5) 1-Methylnaphthalene	6.45	142	12347	9.5010726 ppb	98
8) 2-Chloronaphthalene	6.87	162	11691	9.5349324 ppb	94
9) Acenaphthylene	7.31	152	17636	9.3826011 ppb	99
10) Acenaphthene	7.49	153	12482	9.5737612 ppb	96
11) Dibenzofuran	7.67	168	16476	9.5494114 ppb	98
12) Fluorene	8.02	166	13874	9.4886576 ppb	98
14) Phenanthrene	9.02	178	19319	9.4263884 ppb	97
15) Anthracene	9.07	178	17528	9.3988974 ppb	99
16) Fluoranthene	10.22	202	18854	9.4583423 ppb	98
18) Pyrene	10.46	202	17198	9.4505679 ppb	98
20) Benzo(a)anthracene	11.66	228	14494	9.0155399 ppb	95
21) Chrysene	11.70	228	14772	9.4042753 ppb	98
23) Benzo(b)fluoranthene	12.82	252	14514	9.0682307 ppb	100
24) Benzo(k)fluoranthene	12.85	252	14248	9.8288644 ppb	97
25) Benzo(a)pyrene	13.23	252	11865	9.3837166 ppb	100
26) Indeno(1,2,3-cd)pyrene	14.90	276	14517	9.3066686 ppb #	80
27) Dibenz(a,h)anthracene	14.90	278	12262	9.4345910 ppb #	89
28) Benzo(g,h,i)perylene	15.39	276	12633m	9.2797975 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 05.D Vial: 6
Acq On : 22 Oct 2014 11:52 am Operator: 280
Sample : STD SIMLVI 10 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:29 2014 Quant Results File: SS07J22N.RES

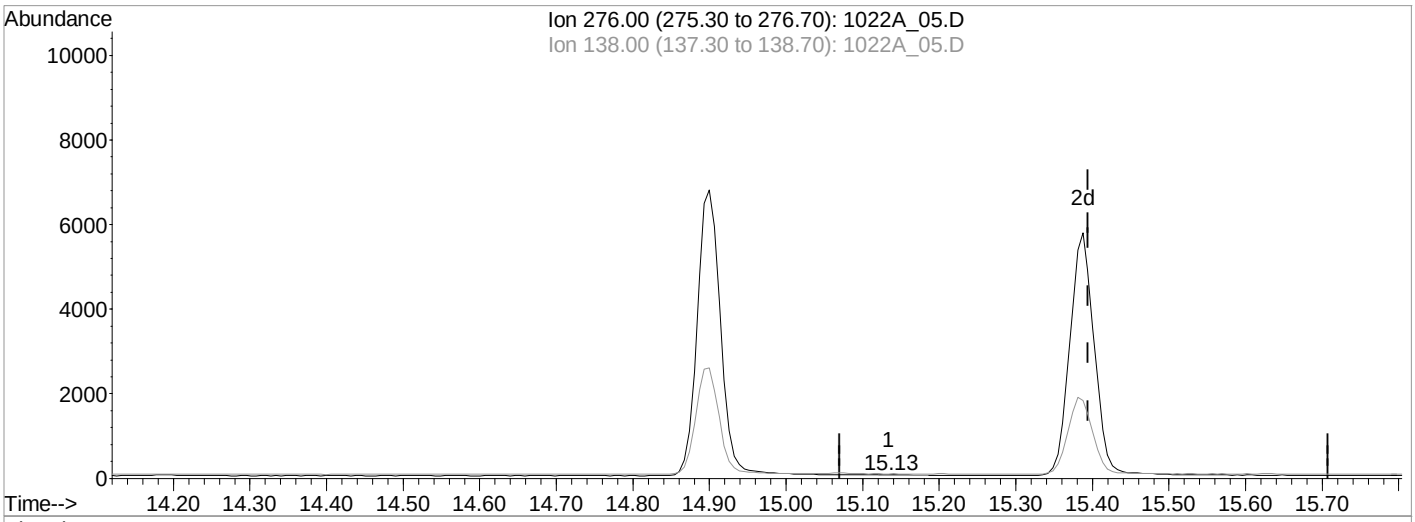
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Initial Calibration

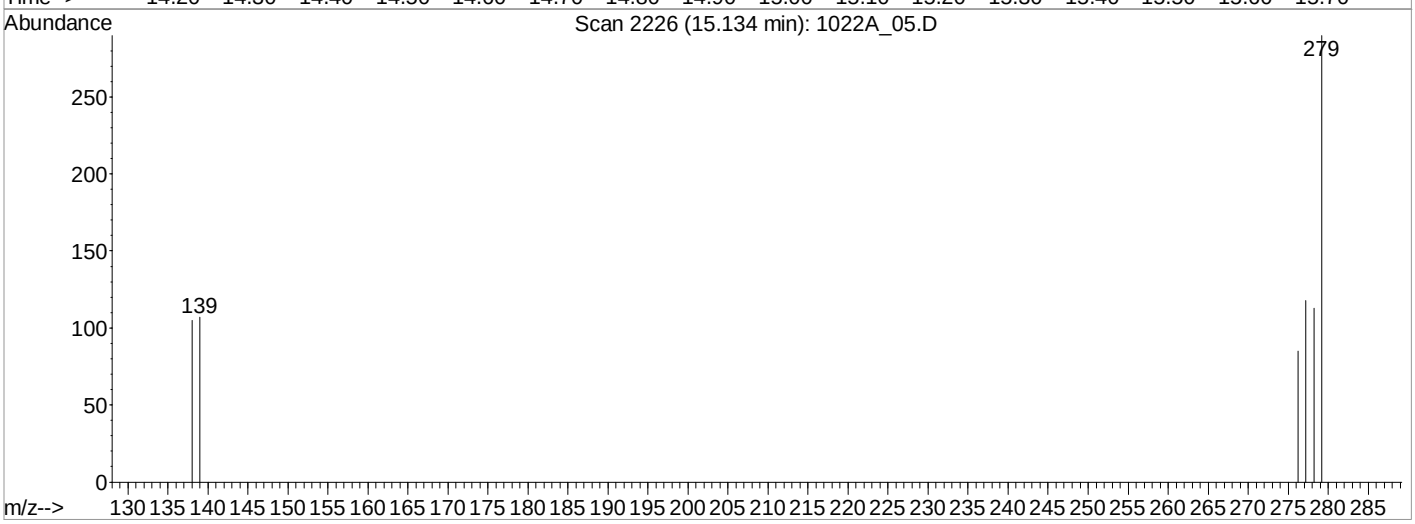


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 05.D Vial: 6
Acq On : 22 Oct 2014 11:52 am Operator: 280
Sample : STD SIMLVI 10 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Multiple Level Calibration





TIC: 1022A_05.D

(28) Benzo(g,h,i)perylene (MT)

15.13min (-0.260) 0.0176296 ppb

Qvalue = 74

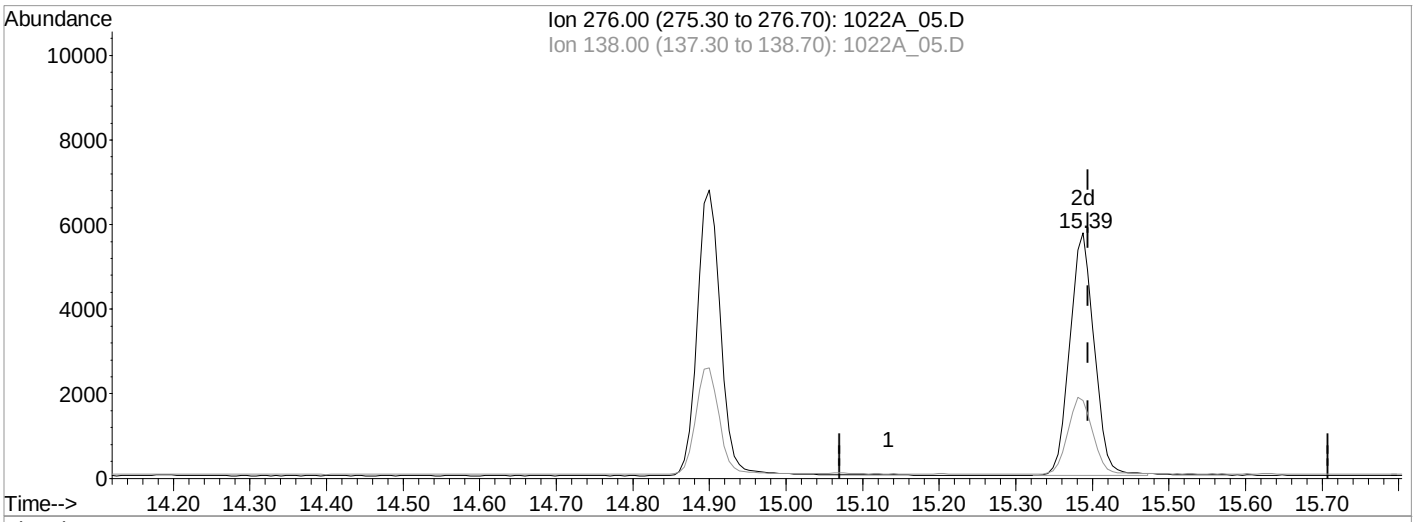
response 24

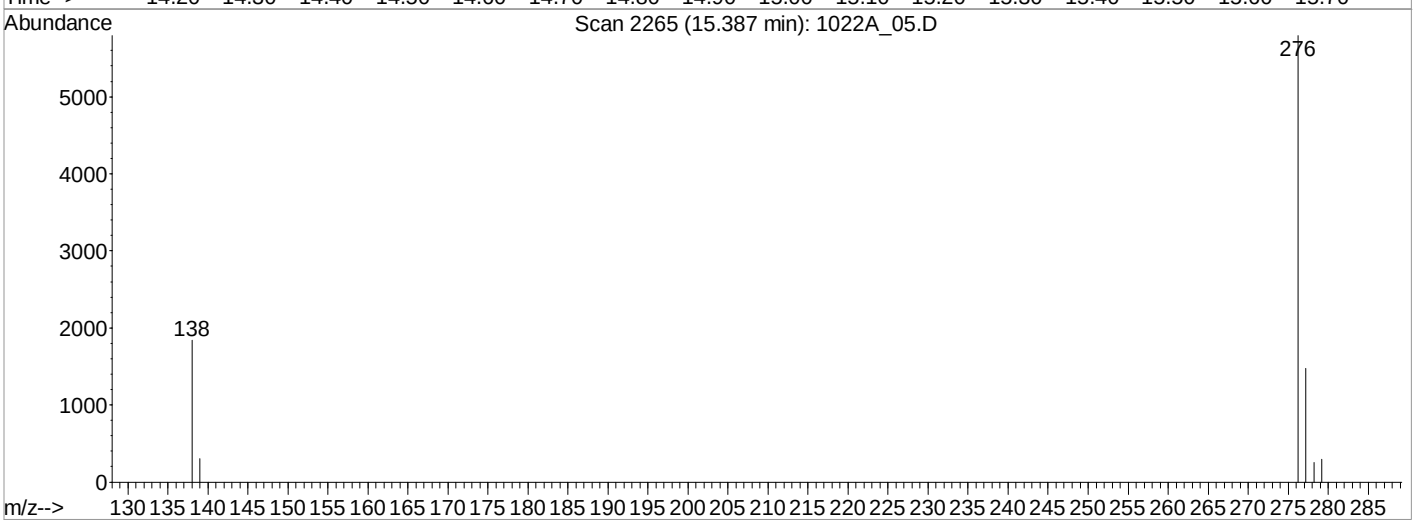
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 05.D Vial: 6
Acq On : 22 Oct 2014 11:52 am Operator: 280
Sample : STD SIMLVI 10 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Multiple Level Calibration





TIC: 1022A_05.D

(28) Benzo(g,h,i)perylene (MT)

15.39min (-0.007) 9.2797975 ppb m

response 12633

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	31.68#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 06.D Vial: 7
Acq On : 22 Oct 2014 12:15 pm Operator: 280
Sample : STD SIMLVI 20 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:33 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 12:29:21 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	89179	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	48932	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	79008	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	63391	40.00 ppb	0.00
22) Perylene-d12	13.29	264	61925	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	12771	21.0152559 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 1050.76%#		
7) 2-Fluorobiphenyl	6.72	172	31621	21.0649632 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1053.25%#		
19) p-Terphenyl-d14	10.57	244	30760	20.9933416 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1049.67%#		

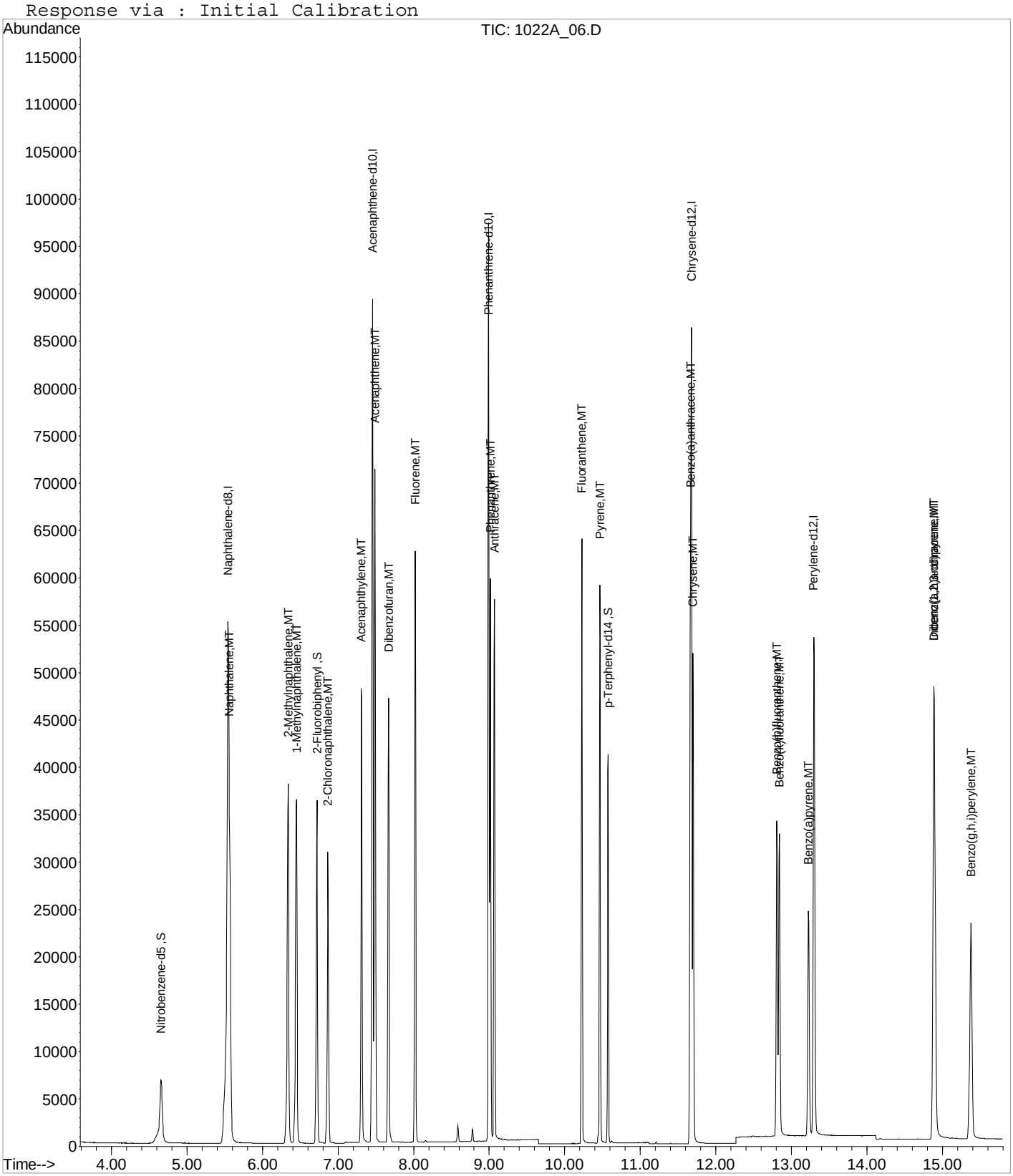
Target Compounds						Qvalue
3) Naphthalene	5.57	128	46845	16.4988230 ppb		99
4) 2-Methylnaphthalene	6.34	142	29906	21.1203225 ppb		94
5) 1-Methylnaphthalene	6.45	142	27705	21.0057143 ppb		94
8) 2-Chloronaphthalene	6.87	162	26644	21.3218181 ppb		96
9) Acenaphthylene	7.31	152	40700	21.3281421 ppb		99
10) Acenaphthene	7.49	153	28209	21.2089234 ppb		95
11) Dibenzofuran	7.67	168	37372	21.2456972 ppb		96
12) Fluorene	8.02	166	31499	21.1625176 ppb		99
14) Phenanthrene	9.02	178	44051	21.1503332 ppb		98
15) Anthracene	9.07	178	40683	21.4813314 ppb		98
16) Fluoranthene	10.22	202	43488	21.4501273 ppb		99
18) Pyrene	10.46	202	39530	20.9457141 ppb		98
20) Benzo(a)anthracene	11.66	228	33664	20.4161211 ppb		94
21) Chrysene	11.70	228	33714	20.7202327 ppb		97
23) Benzo(b)fluoranthene	12.80	252	34239	20.8130780 ppb		97
24) Benzo(k)fluoranthene	12.84	252	32385	21.3205772 ppb		99
25) Benzo(a)pyrene	13.22	252	27797	21.2173878 ppb		97
26) Indeno(1,2,3-cd)pyrene	14.89	276	33978	21.0645648 ppb	#	79
27) Dibenz(a,h)anthracene	14.89	278	28887	21.4234993 ppb	#	82
28) Benzo(g,h,i)perylene	15.37	276	29755	21.1507737 ppb	#	44

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 06.D Vial: 7
Acq On : 22 Oct 2014 12:15 pm Operator: 280
Sample : STD SIMLVI 20 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:33 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 12:29:21 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 07.D Vial: 8
Acq On : 22 Oct 2014 12:37 pm Operator: 280
Sample : STD SIMLVI 80 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:54 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 12:34:09 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	88606	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	49206	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	79689	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	66056	40.00 ppb	0.00
22) Perylene-d12	13.30	264	64833	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	48561	79.6177496 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 3980.89%#		
7) 2-Fluorobiphenyl	6.72	172	116639	76.4545216 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 3822.73%#		
19) p-Terphenyl-d14	10.57	244	118147	76.6197143 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 3830.99%#		

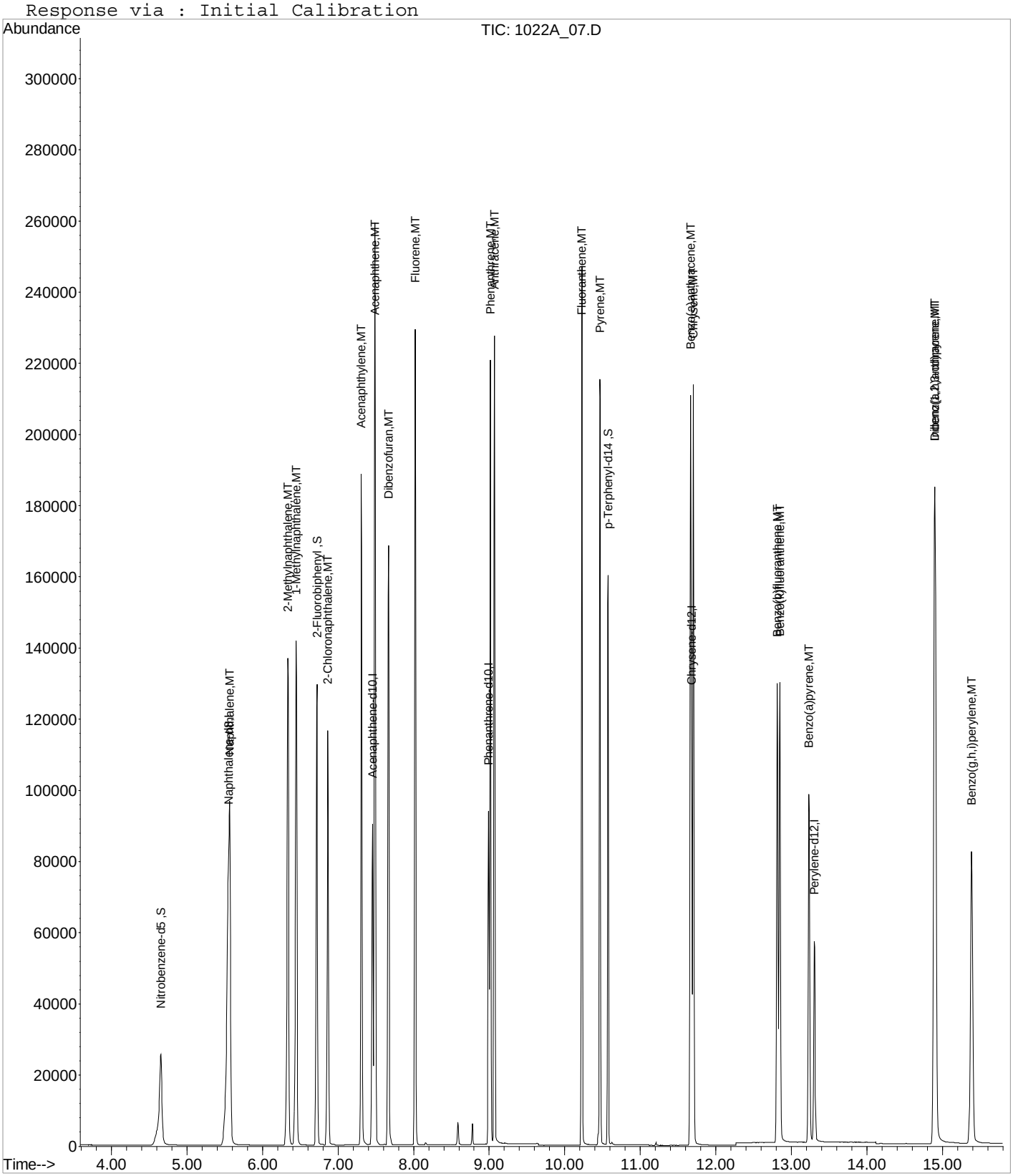
Target Compounds					Qvalue
3) Naphthalene	5.57	128	169434	62.2397348 ppb	99
4) 2-Methylnaphthalene	6.34	142	111381	78.2914526 ppb	97
5) 1-Methylnaphthalene	6.45	142	103838	78.4493115 ppb	98
8) 2-Chloronaphthalene	6.87	162	98737	77.5490830 ppb	94
9) Acenaphthylene	7.31	152	155400	79.9198124 ppb	99
10) Acenaphthene	7.49	153	104930	77.5151702 ppb	95
11) Dibenzofuran	7.67	168	138874	77.5432360 ppb	100
12) Fluorene	8.02	166	119062	78.6319444 ppb	99
14) Phenanthrene	9.01	178	162811	76.6214839 ppb	100
15) Anthracene	9.07	178	158921	81.9815354 ppb	99
16) Fluoranthene	10.22	202	165314	79.6874937 ppb	98
18) Pyrene	10.46	202	151350	76.2391822 ppb	98
20) Benzo(a)anthracene	11.66	228	133847	77.5761186 ppb	98
21) Chrysene	11.70	228	128709	75.3688471 ppb	99
23) Benzo(b)fluoranthene	12.81	252	132199	76.1371178 ppb	97
24) Benzo(k)fluoranthene	12.85	252	125954	78.1698472 ppb	98
25) Benzo(a)pyrene	13.23	252	108957	78.4808858 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.90	276	131575	77.0901772 ppb #	80
27) Dibenz(a,h)anthracene	14.90	278	111057	77.5648957 ppb #	87
28) Benzo(g,h,i)perylene	15.38	276	112402	75.4468360 ppb #	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 07.D Vial: 8
Acq On : 22 Oct 2014 12:37 pm Operator: 280
Sample : STD SIMLVI 80 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:54 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 12:34:09 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 08.D Vial: 9
Acq On : 22 Oct 2014 1:00 pm Operator: 280
Sample : dnr STD SIMLVI 200 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	90122	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	50335	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	81859	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	72397	40.00 ppb	0.00
22) Perylene-d12	13.31	264	69526	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	122976	188.6853374 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 9434.27%#		
7) 2-Fluorobiphenyl	6.72	172	290812	184.3062561 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 9215.31%#		
19) p-Terphenyl-d14	10.57	244	302038	176.9250036 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 8846.25%#		

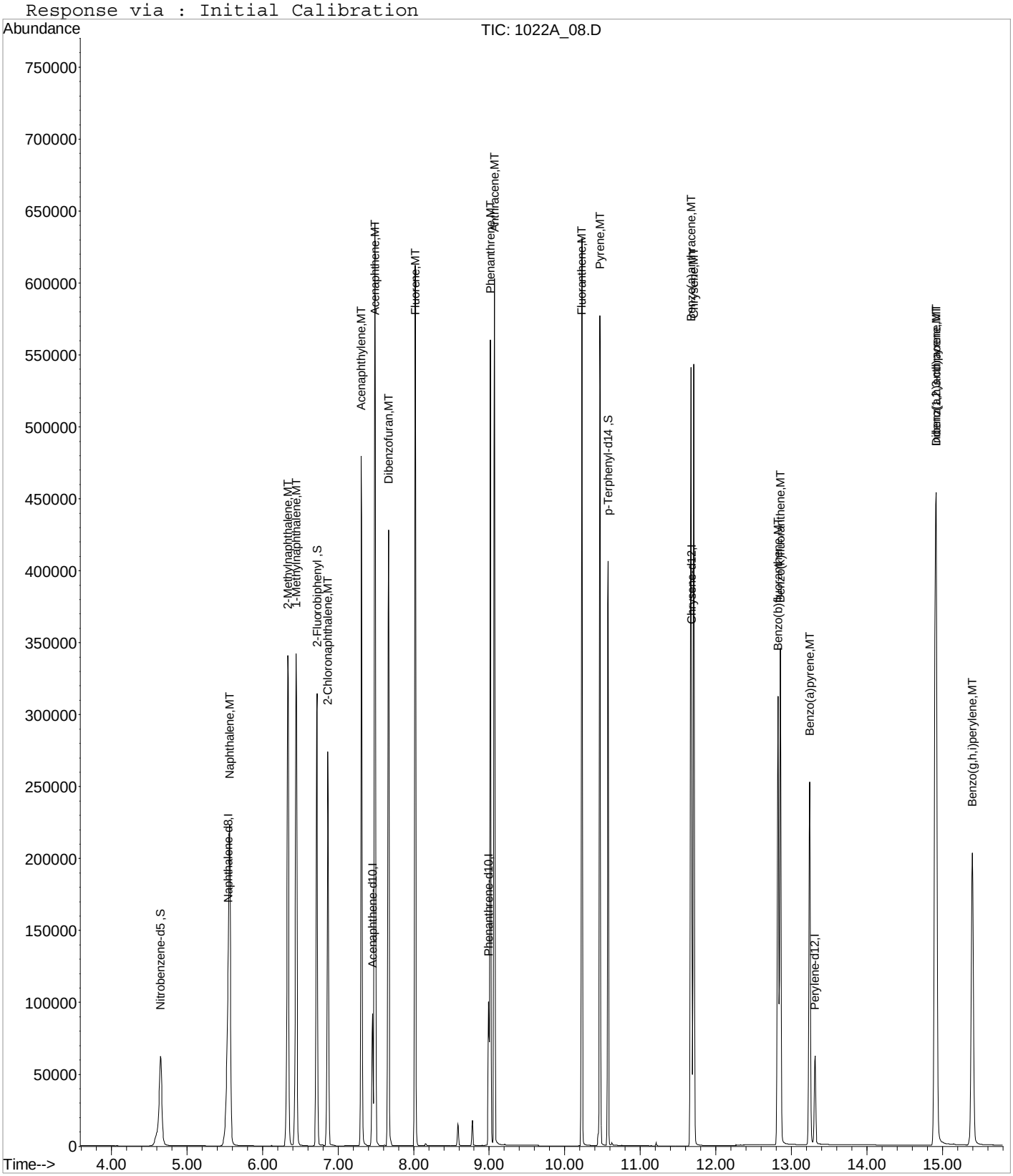
Target Compounds					Qvalue
3) Naphthalene	5.57	128	413692	177.4722983 ppb	100
4) 2-Methylnaphthalene	6.34	142	274530	185.7631861 ppb	98
5) 1-Methylnaphthalene	6.45	142	258052	187.5004570 ppb	97
8) 2-Chloronaphthalene	6.87	162	245375	186.2629894 ppb	96
9) Acenaphthylene	7.31	152	400065	190.9558881 ppb	99
10) Acenaphthene	7.49	153	262032	185.4972769 ppb	95
11) Dibenzofuran	7.67	168	343782	185.1814356 ppb	99
12) Fluorene	8.02	166	298475	187.0292493 ppb	98
14) Phenanthrene	9.02	178	411448	184.7869590 ppb	97
15) Anthracene	9.07	178	410613	192.0119466 ppb	99
16) Fluoranthene	10.22	202	426734	190.4149707 ppb	98
18) Pyrene	10.46	202	387862	175.8208287 ppb	98
20) Benzo(a)anthracene	11.67	228	342202	175.8312938 ppb	99
21) Chrysene	11.71	228	332530	175.7226493 ppb	100
23) Benzo(b)fluoranthene	12.82	252	320270	167.3476968 ppb	99
24) Benzo(k)fluoranthene	12.85	252	327052	184.6981581 ppb	98
25) Benzo(a)pyrene	13.24	252	280812	181.0086728 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.91	276	322739	167.8694369 ppb #	79
27) Dibenz(a,h)anthracene	14.91	278	279552	171.2849346 ppb #	79
28) Benzo(g,h,i)perylene	15.39	276	274139	167.0122934 ppb #	40

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 08.D Vial: 9
Acq On : 22 Oct 2014 1:00 pm Operator: 280
Sample : dnr STD SIMLVI 200 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 09.D Vial: 10
Acq On : 22 Oct 2014 1:23 pm Operator: 280
Sample : dnr STD SIMLVI 1K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	93450	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	52820	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	88033	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	94258	40.00 ppb	0.00
22) Perylene-d12	13.31	264	82122	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	636344	941.5887458 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 47079.44%#	
7) 2-Fluorobiphenyl	6.72	172	1438717	868.9100201 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 43445.50%#	
19) p-Terphenyl-d14	10.57	244	1528415	687.6560501 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 34382.80%#	

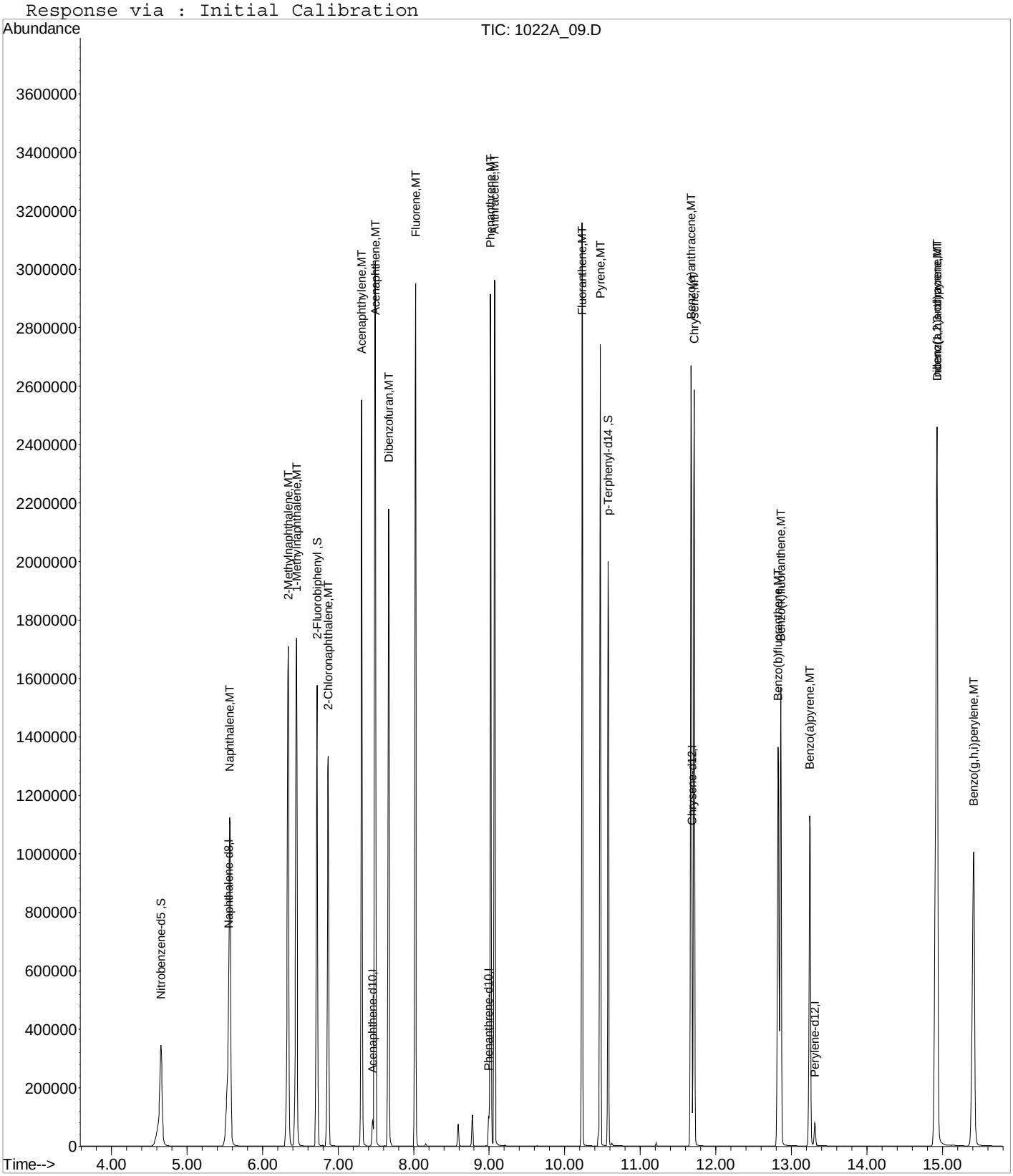
Target Compounds						Qvalue
3) Naphthalene	5.57	128	2043572	845.4635909 ppb		99
4) 2-Methylnaphthalene	6.34	142	1371237	894.8162861 ppb		95
5) 1-Methylnaphthalene	6.45	142	1280749	897.4507856 ppb		94
8) 2-Chloronaphthalene	6.87	162	1203568	870.6398968 ppb		90
9) Acenaphthylene	7.31	152	2062146	937.9800084 ppb		98
10) Acenaphthene	7.49	153	1314575	886.8297460 ppb		90
11) Dibenzofuran	7.67	168	1701489	873.4039155 ppb		84
12) Fluorene	8.03	166	1507755	900.3347718 ppb		96
14) Phenanthrene	9.02	178	2078239	867.9061907 ppb		100
15) Anthracene	9.08	178	2147116	933.6239768 ppb		98
16) Fluoranthene	10.23	202	2213375	918.3744161 ppb		98
18) Pyrene	10.47	202	1987188	691.8857657 ppb		98
20) Benzo(a)anthracene	11.67	228	1788698	705.9159576 ppb		96
21) Chrysene	11.71	228	1669289	677.5335277 ppb		98
23) Benzo(b)fluoranthene	12.82	252	1582853	700.2156124 ppb		98
24) Benzo(k)fluoranthene	12.86	252	1454561	695.4492140 ppb		98
25) Benzo(a)pyrene	13.24	252	1255503	685.1555858 ppb		98
26) Indeno(1,2,3-cd)pyrene	14.93	276	1702637	749.7733122 ppb	#	77
27) Dibenz(a,h)anthracene	14.93	278	1462833	758.8204699 ppb	#	70
28) Benzo(g,h,i)perylene	15.41	276	1427672	736.3660956 ppb	#	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 09.D Vial: 10
Acq On : 22 Oct 2014 1:23 pm Operator: 280
Sample : dnr STD SIMLVI 1K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 10.D Vial: 11
Acq On : 22 Oct 2014 1:46 pm Operator: 280
Sample : dnr STD SIMLVI 2K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.55	136	94604	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	53564	40.00 ppb	0.00
13) Phenanthrene-d10	9.00	188	90982	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	120578	40.00 ppb	0.00
22) Perylene-d12	13.31	264	114387	40.00 ppb	0.00

System Monitoring Compounds

2) Nitrobenzene-d5	4.67	82	1342792	1962.6725883 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 98133.63%#	
7) 2-Fluorobiphenyl	6.73	172	2997906	1785.4300378 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 89271.50%#	
19) p-Terphenyl-d14	10.58	244	3102368	1091.1223046 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 54556.12%#	

Target Compounds

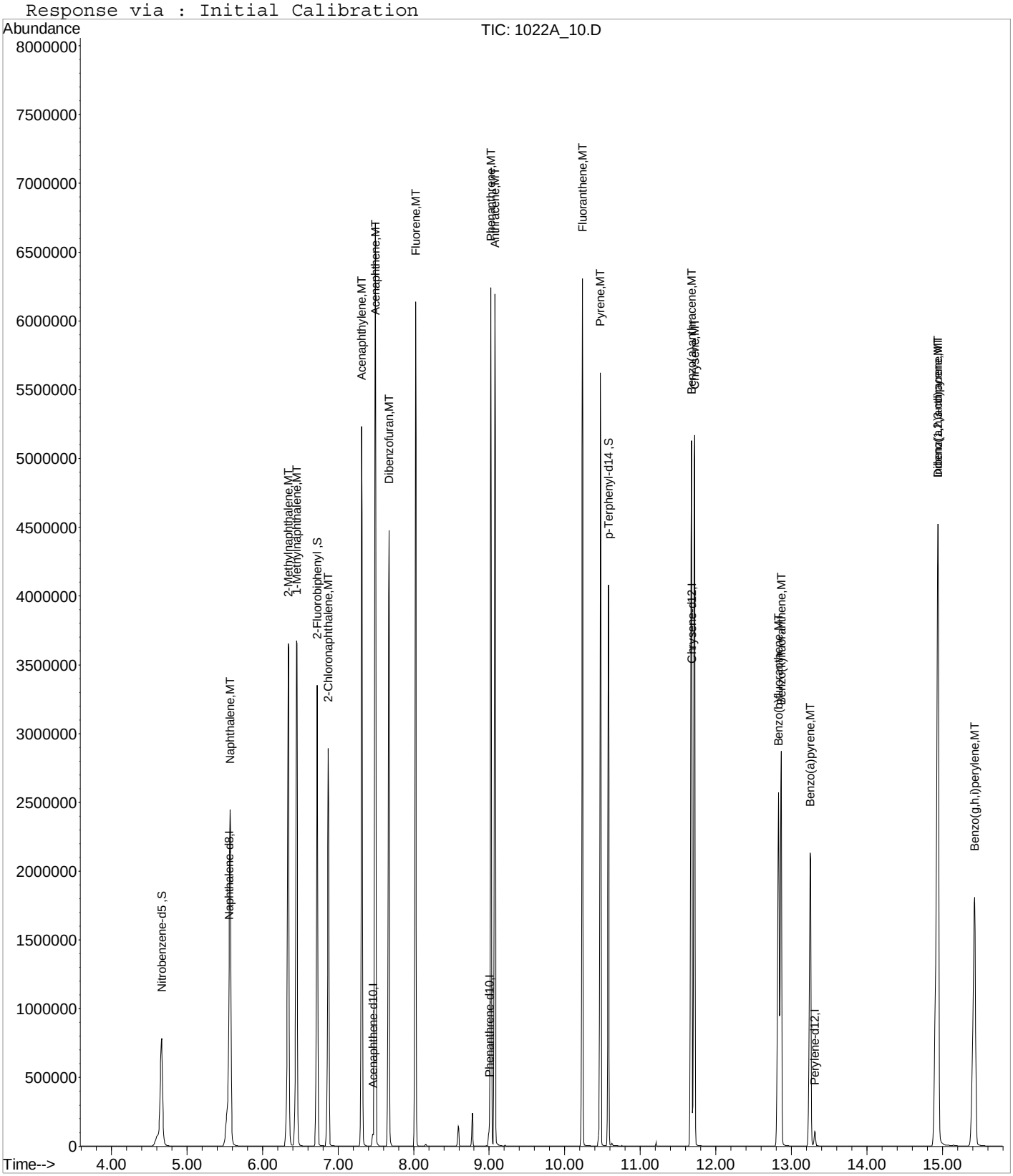
						Qvalue
3) Naphthalene	5.57	128	4265743	1743.2892792 ppb		99
4) 2-Methylnaphthalene	6.35	142	2856095	1841.0424899 ppb		93
5) 1-Methylnaphthalene	6.46	142	2657308	1839.3243399 ppb		92
8) 2-Chloronaphthalene	6.87	162	2475965	1766.1916575 ppb		100
9) Acenaphthylene	7.31	152	4322087	1938.6217110 ppb		99
10) Acenaphthene	7.49	153	2741944	1824.0589057 ppb		94
11) Dibenzofuran	7.67	168	3530085	1786.8847691 ppb		96
12) Fluorene	8.03	166	3175713	1869.9926017 ppb		99
14) Phenanthrene	9.02	178	4347416	1756.7037068 ppb		99
15) Anthracene	9.08	178	4493228	1890.4490082 ppb		100
16) Fluoranthene	10.23	202	4565938	1833.0943088 ppb		99
18) Pyrene	10.47	202	4111361	1119.0028594 ppb		99
20) Benzo(a)anthracene	11.68	228	3790483	1169.3935006 ppb		99
21) Chrysene	11.72	228	3577385	1135.0502422 ppb		96
23) Benzo(b)fluoranthene	12.83	252	3068906	974.6700924 ppb		98
24) Benzo(k)fluoranthene	12.87	252	2942008	1009.8576939 ppb		100
25) Benzo(a)pyrene	13.25	252	2711026	1062.1551965 ppb		98
26) Indeno(1,2,3-cd)pyrene	14.94	276	3480978	1100.5050434 ppb	#	74
27) Dibenz(a,h)anthracene	14.94	278	3060223	1139.6728738 ppb	#	60
28) Benzo(g,h,i)perylene	15.43	276	2764372	1023.6339354 ppb	#	38

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 10.D Vial: 11
Acq On : 22 Oct 2014 1:46 pm Operator: 280
Sample : dnr STD SIMLVI 2K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 11.D Vial: 10
Acq On : 22 Oct 2014 2:22 pm Operator: 280
Sample : STD SIMLVI 1K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:45 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 14:03:22 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	81616	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	45758	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	74321	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	63667	40.00 ppb	0.01
22) Perylene-d12	13.32	264	51732	40.00 ppb	0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	650153	1156.3970549 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 57819.85%#		
7) 2-Fluorobiphenyl	6.72	172	1457684	1066.7701058 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 53338.51%#		
19) p-Terphenyl-d14	10.57	244	1545001	1155.4718037 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 57773.59%#		

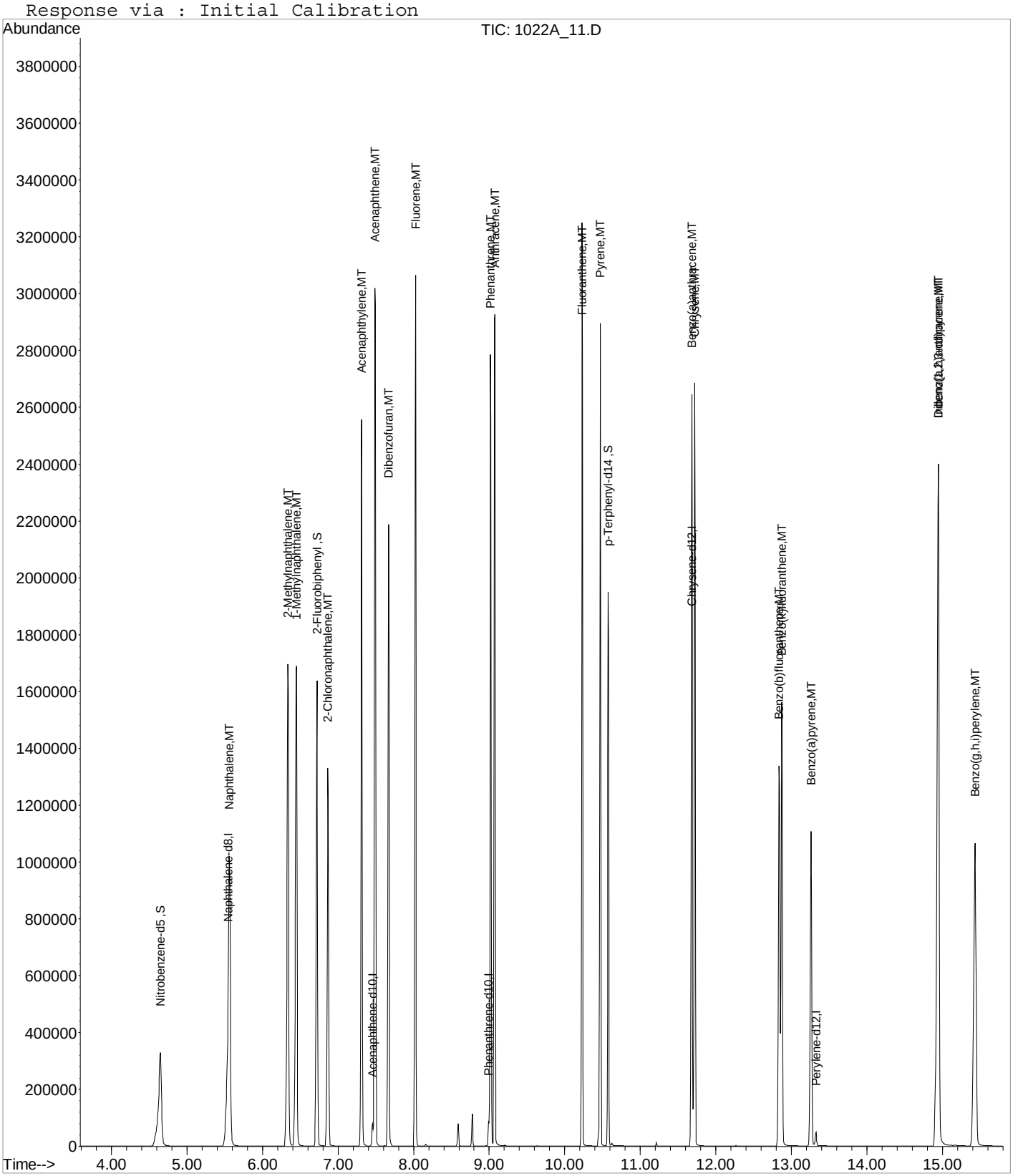
Target Compounds						Qvalue
3) Naphthalene	5.56	128	2071384	932.7508547 ppb		99
4) 2-Methylnaphthalene	6.34	142	1396720	1092.4027314 ppb		96
5) 1-Methylnaphthalene	6.45	142	1304877	1095.0088139 ppb		93
8) 2-Chloronaphthalene	6.87	162	1226656	1073.5791570 ppb		99
9) Acenaphthylene	7.31	152	2093926	1156.2727611 ppb		97
10) Acenaphthene	7.49	153	1340368	1095.1900237 ppb		97
11) Dibenzofuran	7.67	168	1724393	1071.3580480 ppb		86
12) Fluorene	8.03	166	1524979	1102.9600787 ppb		99
14) Phenanthrene	9.02	178	2094516	1095.6669555 ppb		100
15) Anthracene	9.08	178	2177193	1194.4969307 ppb		98
16) Fluoranthene	10.23	202	2212778	1153.0314839 ppb		99
18) Pyrene	10.47	202	2005917	1162.9546712 ppb		98
20) Benzo(a)anthracene	11.68	228	1819689	1200.5879899 ppb		99
21) Chrysene	11.72	228	1698204	1147.8989163 ppb		98
23) Benzo(b)fluoranthene	12.83	252	1564638	1265.3813758 ppb		96
24) Benzo(k)fluoranthene	12.87	252	1497598	1285.7348801 ppb		97
25) Benzo(a)pyrene	13.26	252	1262993	1252.6514672 ppb		100
26) Indeno(1,2,3-cd)pyrene	14.95	276	1708798	1375.3368278 ppb	#	77
27) Dibenz(a,h)anthracene	14.95	278	1464944	1391.7158413 ppb	#	68
28) Benzo(g,h,i)perylene	15.43	276	1426195	1335.7677478 ppb	#	41

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 11.D Vial: 10
Acq On : 22 Oct 2014 2:22 pm Operator: 280
Sample : STD SIMLVI 1K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:45 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 14:03:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 12.D Vial: 11
Acq On : 22 Oct 2014 2:45 pm Operator: 280
Sample : STD SIMLVI 2K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:05 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 14:45:48 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.55	136	78957	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	43737	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	71977	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	59611	40.00 ppb	0.01
22) Perylene-d12	13.32	264	51800	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.67	82	1283639	2316.8186903 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 115840.93%#		
7) 2-Fluorobiphenyl	6.72	172	2863788	2155.5944973 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 107779.72%#		
19) p-Terphenyl-d14	10.58	244	2971591	2276.6209695 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 113831.05%#		

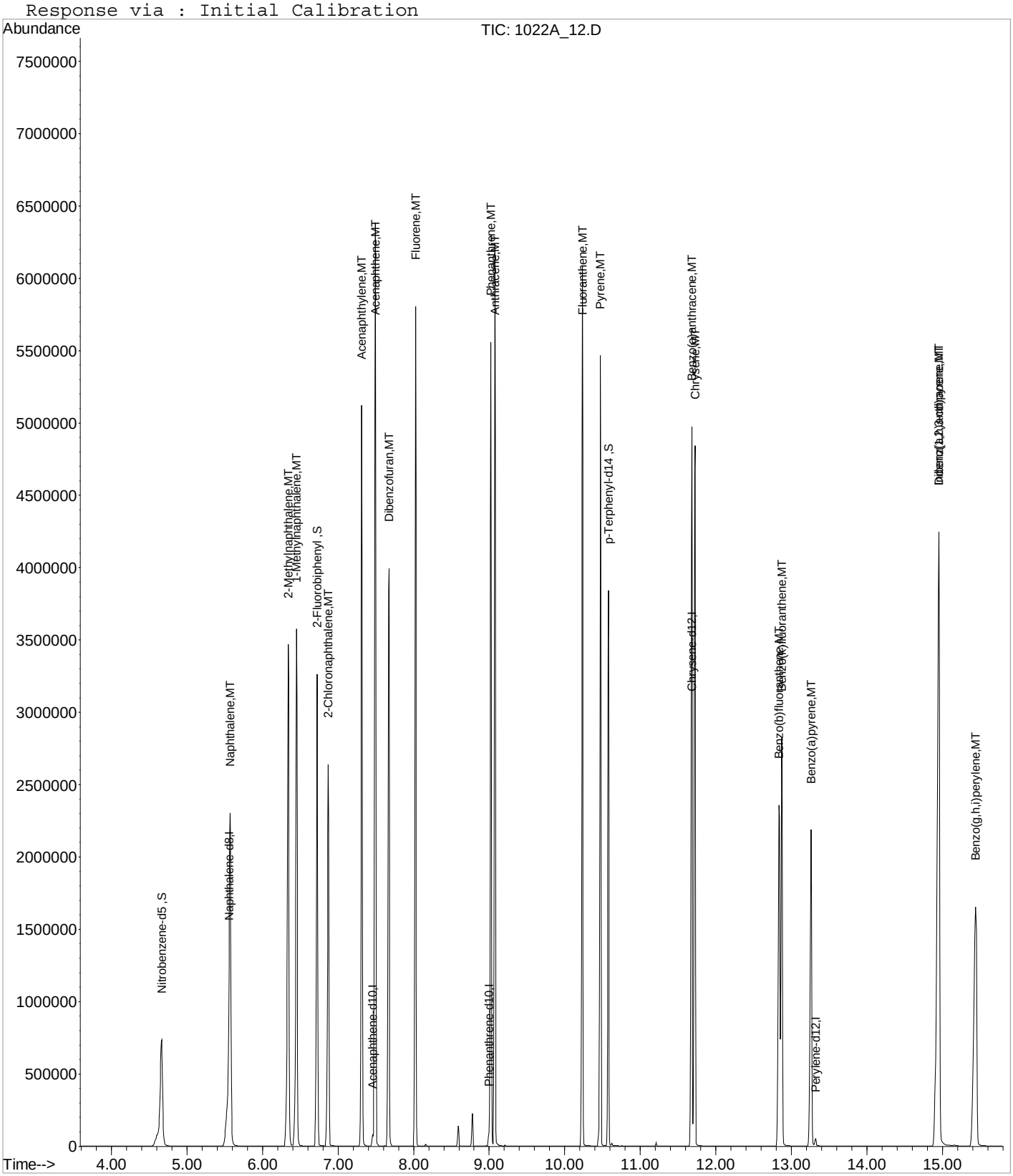
Target Compounds						Qvalue
3) Naphthalene	5.57	128	4068329	1866.9057459	ppb	99
4) 2-Methylnaphthalene	6.34	142	2734100	2172.8083104	ppb	98
5) 1-Methylnaphthalene	6.45	142	2538613	2164.4589868	ppb	96
8) 2-Chloronaphthalene	6.87	162	2356591	2119.8795079	ppb	100
9) Acenaphthylene	7.31	152	4089661	2318.9274984	ppb	99
10) Acenaphthene	7.49	153	2592522	2176.3611323	ppb	93
11) Dibenzofuran	7.67	168	3331676	2128.8076908	ppb	94
12) Fluorene	8.03	166	3000208	2230.9766391	ppb	98
14) Phenanthrene	9.02	178	4148566	2197.4159691	ppb	99
15) Anthracene	9.08	178	4326914	2397.9467191	ppb	100
16) Fluoranthene	10.23	202	4355920	2297.9066917	ppb	100
18) Pyrene	10.47	202	3914533	2324.5389672	ppb	99
20) Benzo(a)anthracene	11.68	228	3601089	2428.6987662	ppb	98
21) Chrysene	11.72	228	3386656	2344.4798896	ppb	95
23) Benzo(b)fluoranthene	12.83	252	3042768	2338.3193828	ppb	98
24) Benzo(k)fluoranthene	12.87	252	2731845	2219.2335147	ppb	96
25) Benzo(a)pyrene	13.26	252	2574779	2424.2213157	ppb	100
26) Indeno(1,2,3-cd)pyrene	14.95	276	3312306	2519.0995704	ppb #	73
27) Dibenz(a,h)anthracene	14.95	278	2902250	2604.1689025	ppb #	59
28) Benzo(g,h,i)perylene	15.44	276	2638154	2339.3786313	ppb #	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 12.D Vial: 11
Acq On : 22 Oct 2014 2:45 pm Operator: 280
Sample : STD SIMLVI 2K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:05 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 14:45:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 13.D Vial: 9
Acq On : 22 Oct 2014 3:13 pm Operator: 280
Sample : STD SIMLVI 200 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:37 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:05:57 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	75666	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	41786	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	67010	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	59621	40.00 ppb	0.00
22) Perylene-d12	13.30	264	56115	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	116883	216.5968844 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 10829.84%#		
7) 2-Fluorobiphenyl	6.72	172	274784	212.7883663 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 10639.42%#		
19) p-Terphenyl-d14	10.57	244	285659	206.1958851 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 10309.79%#		

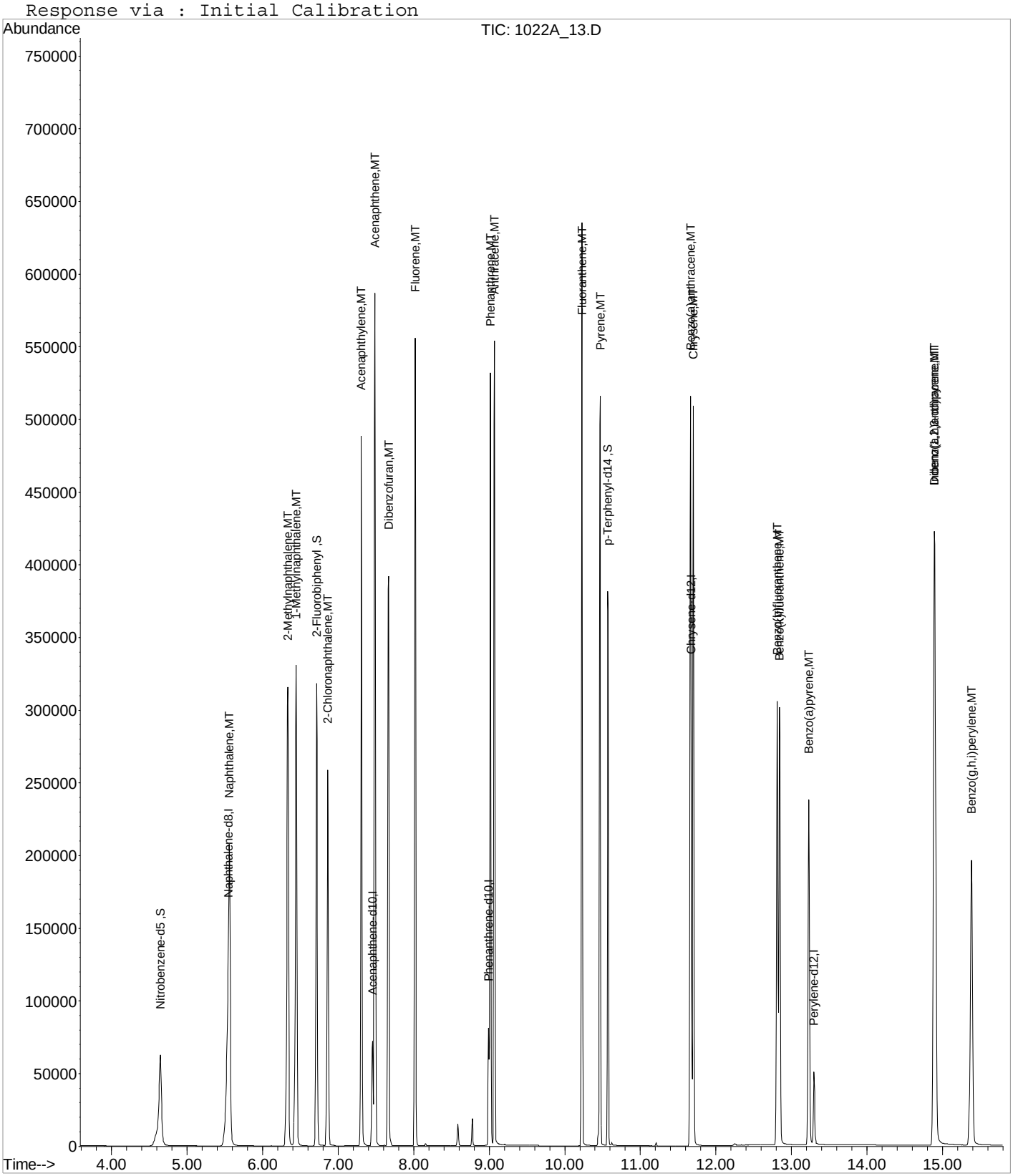
Target Compounds						Qvalue
3) Naphthalene	5.56	128	386582	200.0335712 ppb		99
4) 2-Methylnaphthalene	6.34	142	259768	212.1365665 ppb		96
5) 1-Methylnaphthalene	6.45	142	242681	212.6809661 ppb		96
8) 2-Chloronaphthalene	6.87	162	228480	211.5852623 ppb		93
9) Acenaphthylene	7.31	152	376314	219.4658890 ppb		99
10) Acenaphthene	7.49	153	246011	212.6557931 ppb		92
11) Dibenzofuran	7.67	168	325139	214.0375711 ppb		95
12) Fluorene	8.02	166	280920	215.0309445 ppb		99
14) Phenanthrene	9.02	178	387888	216.1740989 ppb		97
15) Anthracene	9.07	178	391416	227.5876228 ppb		98
16) Fluoranthene	10.22	202	405647	224.9521013 ppb		99
18) Pyrene	10.47	202	369549	206.5837556 ppb		98
20) Benzo(a)anthracene	11.66	228	324663	205.6206210 ppb		99
21) Chrysene	11.70	228	316573	206.2802851 ppb		100
23) Benzo(b)fluoranthene	12.81	252	322392	213.6257762 ppb		98
24) Benzo(k)fluoranthene	12.84	252	284519	200.6822482 ppb		95
25) Benzo(a)pyrene	13.23	252	263497	213.9377031 ppb		100
26) Indeno(1,2,3-cd)pyrene	14.89	276	301580	197.2551079 ppb	#	79
27) Dibenz(a,h)anthracene	14.90	278	259303	199.6845526 ppb	#	83
28) Benzo(g,h,i)perylene	15.38	276	256761	196.7383556 ppb	#	40

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 13.D Vial: 9
Acq On : 22 Oct 2014 3:13 pm Operator: 280
Sample : STD SIMLVI 200 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:37 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:05:57 2014
Response via : Initial Calibration



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 2

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0055AA
Project Manager	**Sample Manager:**
Sheri Fling	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 (2X40ml V NaBis, 1X40ml V MeOH)	VOC (2X40ml V NaBis, 1X40ml V MeOH)	PAHs by SIM (1 X 4 oz Jar, <6C)	DRO/ORO/SVOCs (1 X 4 oz Jar, <6C)	Tot Met and pH (1 X 2 oz Jar, <6C)	GRO (1 X 40ml V Amb, <6C)	VOC (1 X 40ml V Amb, <6C)	Remarks
TU503-SB01-DS01	1640	10/22	SB	9	X	X	X	X	X			L729026-01
TU503-SB01-NS01	1640	↓	SB	9	X	X	X	X	X			-02
TU503-SB01-NS02	1650	↓	SB	9	X	X	X	X	X			-03
TU503-TripBlank-INT01	~~10~~ 10/21/14		WQ	2						X	X	-04
	1400	10/21/14										

COOLER #4

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name Jon Mallonee	Printed Name Jeremy Watkins	Printed Name	Printed Name
Firm URS	Firm ESC	Firm	Firm
Date/Time 10/21/14 1430	Date/Time 10/22/14 0900	Date/Time	Date/Time

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, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
   7471 – Mercury, pH

Container Key: P = Plastic A = Amber V = Vial G = Glass

6194494396047 containers 3.8° cooler

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

Page 2 of 2

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0055AA
Project Manager	**Sample Manager:**
Sheri Fling	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 / 2X40ml V NaBis, 1X40ml V MeOH	VOC / 2X40ml V NaBis, 1X40ml V MeOH	PAHs by SIM / 1 X 4 oz Jar, <6C	DRO/ORO/SVOCs / 1 X 4 oz Jar, <6C	Tot Met and pH / 1 X 2 oz Jar, <6C	GRO / 1 X 40ml V Amb, <6C	VOC / 1 X 40ml V Amb, <6C	Remarks
TU503-SB05-NS01	10/22/14	1250	SB	9	X	X	X	X	X			L729026-05
TU503-SB05-NS02	↓	1255	SB	9	X	X	X	X	X			-06
~~TU503-TripBlank__NT01~~			~~WQ~~	~~2~~						~~X~~	~~X~~	JDM 10/21/14

COOLER #4

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name: Jon Mallonee	Printed Name: Jeremy Watkins	Printed Name	Printed Name
Firm: URS	Firm: ESC	Firm	Firm
Date/Time: 10/21/14 1430	Date/Time: 10/22/14 0900	Date/Time	Date/Time

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, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
   7471 – Mercury, pH

Container Key: P = Plastic A = Amber V = Vial G = Glass

47 Containers 3.8° COOLER AW

ESC Lab Sciences

Login Confirmation Report

October 31, 2014 - 22:41

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L729026**	Receive Date: 10/22/2014	TSR: Pam Langford
Template #		Entered: 10/22/2014	By: Jason Romer
Report to:	Sheri Fling	Lab Project Number: URSTAZ-DOD HOLLOMAN	**Report MDL: Y**
	8181 E. Tufts Avenue	Client Project # 23446543.0055AA	**HDC: N**
	Denver, CO 80237	Project Description:	PO #
		Collected By:	PO Req: N
Phone:	(303) 740-3909 FAX:	Reg. State: NM	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
L729026-01		**TU503-SB01-DS01**	**10/20/2014 16:40** Sample Description: Holloman AFB Sample Comments: EDD/QC4/DOD	**Site:**	**Est. Due Date*: 10/30/2014 - R5**	
SS	AGICP	Silver		UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum		UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic		UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium		UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium		UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium		UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt		UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium		UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper		UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges		UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable				$ 0.00
SS	GRO	TPH Low Fraction - GRO		UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury		UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese		UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel		UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B		UDRYWTDOD	6010B	$ 0.00
SS	PH	pH		DEFAULT	9045D	$ 0.00
SS	QC4	QC Package				$ 0.00
SS	SBICP	Antimony		UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium		UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs		UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM		UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium		UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids		DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles		UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium		UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc		UDRYWTDOD	6010B	$ 0.00
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

L729026-02	TU503-SB01-NS01	10/20/2014 16:40	Site:	Est. Due Date*: 10/30/2014 - R5
		Sample Description: Holloman AFB		

SS	AGICP	Silver	UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum	UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic	UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium	UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium	UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium	UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt	UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium	UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper	UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges	UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable			$ 0.00
SS	GRO	TPH Low Fraction - GRO	UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury	UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese	UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel	UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B	UDRYWTDOD	6010B	$ 0.00
SS	PH	pH	DEFAULT	9045D	$ 0.00
SS	QC4	QC Package			$ 0.00
SS	SBICP	Antimony	UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium	UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs	UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM	UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium	UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids	DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles	UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium	UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc	UDRYWTDOD	6010B	$ 0.00

L729026-03		TU503-SB01-NS02	10/20/2014 16:50 Sample Description: Holloman AFB	Site:	Est. Due Date*: 10/30/2014 - R5	
SS	AGICP	Silver		UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum		UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic		UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium		UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium		UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium		UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt		UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium		UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper		UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges		UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable				$ 0.00
SS	GRO	TPH Low Fraction - GRO		UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury		UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese		UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel		UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B		UDRYWTDOD	6010B	$ 0.00
SS	PH	pH		DEFAULT	9045D	$ 0.00
SS	QC4	QC Package				$ 0.00
SS	SBICP	Antimony		UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium		UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs		UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM		UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium		UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids		DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles		UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium		UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc		UDRYWTDOD	6010B	$ 0.00

L729026-04		TU503-TRIPBLANK04-NT01	10/21/2014 14:00 Sample Description: Holloman AFB	Site:	Est. Due Date*: 10/30/2014 - R5	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 0.00

L729026-05	TU503-SB05-NS01	10/20/2014 12:50	Site:	Est. Due Date*: 10/30/2014 - R5
		Sample Description: Holloman AFB		

SS	AGICP	Silver	UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum	UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic	UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium	UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium	UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium	UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt	UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium	UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper	UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges	UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable			$ 0.00
SS	GRO	TPH Low Fraction - GRO	UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury	UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese	UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel	UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B	UDRYWTDOD	6010B	$ 0.00
SS	PH	pH	DEFAULT	9045D	$ 0.00
SS	QC4	QC Package			$ 0.00
SS	SBICP	Antimony	UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium	UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs	UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM	UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium	UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids	DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles	UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium	UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc	UDRYWTDOD	6010B	$ 0.00

L729026-06	TU503-SB05-NS02	10/20/2014 12:55	Site:	Est. Due Date*: 10/30/2014 - R5
		Sample Description: Holloman AFB		

SS	AGICP	Silver	UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum	UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic	UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium	UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium	UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium	UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt	UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium	UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper	UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges	UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable			$ 0.00
SS	GRO	TPH Low Fraction - GRO	UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury	UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese	UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel	UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B	UDRYWTDOD	6010B	$ 0.00
SS	PH	pH	DEFAULT	9045D	$ 0.00
SS	QC4	QC Package			$ 0.00
SS	SBICP	Antimony	UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium	UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs	UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM	UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium	UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids	DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles	UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium	UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc	UDRYWTDOD	6010B	$ 0.00
Misc	MTLPREP	Metals Prep Fee per Set			$ 0.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 1,340.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**