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

Quality Control Summary
SDG: L729564

For: URS Corporation - Tucson AZ - 1088308
Holloman AFB

L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-NS02

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Quality Control Summary
SDG: L729564

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.

pH by Method 9045D

Laboratory Control Sample

Samples L729564-01, -02, -04, and -05 were analyzed in analytical batch WG750769. 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 WG750769 sample duplicate analysis was performed on sample L729568-05. The relative percent differences were within the method limits for target analytes reported from this batch.

For analytical batch WG750769 sample duplicate analysis was performed on sample L729563-01. The relative percent differences were within the method limits for target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG750769 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Total Solids by Method 2540 G-2011

Laboratory Control Sample

Samples L729564-01 and 02 were analyzed in analytical batch WG750982. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Samples L729564-04 and 05 were analyzed in analytical batch WG750983. 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 WG750982 sample duplicate analysis was performed on sample L729552-03. The relative percent differences were within the method limits for target analytes reported from this batch.

For analytical batch WG750983 sample duplicate analysis was performed on sample L729564-05. 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.

Mercury by Method 7471

Laboratory Control Sample

Samples L729564-01, -02, -04, and -05 were analyzed in analytical batch WG750752. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

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Quality Control Summary
SDG: L729564
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG750752 matrix spike/matrix spike duplicate analysis was performed on sample L729568-02. 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 CVAA3 was calibrated on 10/28/2014. The initial calibration and continuing calibration verification standards were within method limits.

Trace Metals by Method 6010B
Laboratory Control Sample
Samples L729564-01, -02, -04, and -05 were analyzed in analytical batch WG750667. 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 L729564-01, -02, -04, and -05 were analyzed in analytical batch WG752045. 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 WG750667 matrix spike/matrix spike duplicate analysis was performed on sample L729564-05. The matrix spike recoveries were above laboratory control limits for Aluminum and Barium. The matrix spike recoveries were below laboratory control limits for Aluminum, Antimony, and Manganese. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference exceeded laboratory limits for Manganese. Aluminum, Antimony, Barium, and Manganese did not meet the method limit criteria for the post digest spike.

For analytical batch WG752045 matrix spike/matrix spike duplicate analysis was performed on sample L729563-01. 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 11/5/2014. 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.

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Quality Control Summary
SDG: L729564

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

Volatile TPH by Method 8015D/GRO

Laboratory Control Sample

Sample L729564-03 was analyzed in analytical batch WG750792. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L729564-01, -02, -04, and -05 were analyzed in analytical batch WG750810. 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 WG750792 matrix spike/matrix spike duplicate analysis was performed on sample L729613-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG750810 matrix spike/matrix spike duplicate analysis was performed on sample L729568-02. 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 VOCGC7 was calibrated on 9/9/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCGC10 was calibrated on 9/24/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary

The surrogate recoveries were within method limits for all samples.

Internal Standards

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

Volatile Organic Compounds by Method 8260B

Laboratory Control Sample

Sample L729564-03 was analyzed in analytical batch WG750683. The laboratory control sample associated with this sample had all target analytes within method limits except for cis-1,3-Dichloropropene. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L729564-01, -02, -04, and -05 were analyzed in analytical batch WG750700. 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.

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Quality Control Summary
SDG: L729564
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG750683 matrix spike/matrix spike duplicate analysis was performed on sample L729559-02. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG750700 matrix spike/matrix spike duplicate analysis was performed on sample L729568-02. 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 VOCMS21 was calibrated on 9/16/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCMS20 was calibrated on 10/21/2014. 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.

Semi-Volatiles by Method 8270C
Laboratory Control Sample
Samples L729564-01, -02, -04, and -05 were analyzed in analytical batch WG751073. 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 L729564-01, -02, -04, and -05 were analyzed in analytical batch WG750917. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate
Precision for batch WG751073 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Precision for batch WG750917 was evaluated using the LCS/LCSD. The RPDs were within method limits.

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

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Quality Control Summary
SDG: L729564

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

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 L729564-01, -02, -04, and -05 were analyzed in analytical batch WG751233. 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 WG751233 matrix spike/matrix spike duplicate analysis was performed on sample L729568-02. 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 13:35:53 -06'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

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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: L729564
Samples Received: 10/24/14
Client Project: 23446543.0053AA

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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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729564-01

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.5				su		9045D	10/27/14	1
Total Solids	TSOLIDS	81.9	.0333			%		2540 G-2	10/28/14	1
Mercury	7439-97-6	U	.0034	0.012	0.024	mg/kg		7471	10/28/14	1
Aluminum	7429-90-5	2900	22	31.	61.	mg/kg		6010B	11/05/14	5
Antimony	7440-36-0	U	4.6	6.1	12.	mg/kg		6010B	11/05/14	5
Arsenic	7440-38-2	U	3.9	6.1	12.	mg/kg		6010B	11/05/14	5
Barium	7440-39-3	30.	1	1.5	3.0	mg/kg		6010B	11/05/14	5
Beryllium	7440-41-7	U	.43	0.61	1.2	mg/kg		6010B	11/05/14	5
Cadmium	7440-43-9	U	.43	1.5	3.0	mg/kg		6010B	11/05/14	5
Chromium	7440-47-3	3.7	.85	3.1	6.1	mg/kg	J	6010B	11/05/14	5
Cobalt	7440-48-4	U	1.5	3.1	6.1	mg/kg		6010B	11/05/14	5
Copper	7440-50-8	U	3.2	6.1	12.	mg/kg		6010B	11/05/14	5
Lead	7439-92-1	1.5	1.2	1.5	3.0	mg/kg	J	6010B	11/05/14	5
Manganese	7439-96-5	54.	.73	3.1	6.1	mg/kg		6010B	11/05/14	5
Nickel	7440-02-0	U	2.9	6.1	12.	mg/kg		6010B	11/05/14	5
Selenium	7782-49-2	U	4.5	6.1	12.	mg/kg		6010B	11/05/14	5
Silver	7440-22-4	U	1.7	3.1	6.1	mg/kg		6010B	11/05/14	5
Thallium	7440-28-0	U	3.9	6.1	12.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	4.4	1.5	6.1	12.	mg/kg	J	6010B	11/05/14	5
Zinc	7440-66-6	8.3	3.7	15.	30.	mg/kg	J	6010B	11/05/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.66	1.5	3.0	mg/kg		8015D/GR	10/31/14	25
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.2				% Rec.		8015D/GR	10/31/14	25
Volatile Organics										
Acetone	67-64-1	0.048	.012	0.031	0.061	mg/kg	J	8260B	10/31/14	1
Benzene	71-43-2	0.0012	.00033	0.00061	0.0012	mg/kg	J	8260B	10/31/14	1
Bromobenzene	108-86-1	U	.00034	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Bromochloromethane	74-97-5	U	.00048	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Bromodichloromethane	75-27-4	U	.0003	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Bromoform	75-25-2	U	.00051	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Bromomethane	74-83-9	U	.0016	0.0031	0.0061	mg/kg		8260B	10/31/14	1
n-Butylbenzene	104-51-8	U	.00032	0.00061	0.0012	mg/kg		8260B	10/31/14	1
sec-Butylbenzene	135-98-8	U	.00024	0.00061	0.0012	mg/kg		8260B	10/31/14	1
tert-Butylbenzene	98-06-6	U	.00026	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Carbon Disulfide	75-15-0	U	.00034	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Carbon tetrachloride	56-23-5	U	.0004	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Chlorobenzene	108-90-7	U	.00026	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Chlorodibromomethane	124-48-1	U	.00045	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Chloroethane	75-00-3	U	.0012	0.0031	0.0061	mg/kg		8260B	10/31/14	1
Chloroform	67-66-3	U	.00028	0.0031	0.0061	mg/kg		8260B	10/31/14	1

Results listed are dry weight basis.
U = Not Detected at the LOD
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The reported analytical results relate only to the sample submitted
Reported: 11/05/14 16:13 Revised: 11/18/14 11:05
L729564-01 (PH) - 6.5@20.8c
L729564-01 (ICP METALS) - Diluted due to matrix.

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729564-01

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00046	0.00061	0.0030	mg/kg		8260B	10/31/14	1
2-Chlorotoluene	95-49-8	U	.00037	0.00061	0.0012	mg/kg		8260B	10/31/14	1
4-Chlorotoluene	106-43-4	U	.00029	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0012	0.0031	0.0061	mg/kg		8260B	10/31/14	1
1,2-Dibromoethane	106-93-4	U	.00042	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Dibromomethane	74-95-3	U	.00046	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,2-Dichlorobenzene	95-50-1	U	.00037	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,3-Dichlorobenzene	541-73-1	U	.00029	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,4-Dichlorobenzene	106-46-7	U	.00028	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Dichlorodifluoromethane	75-71-8	U	.00087	0.0031	0.0061	mg/kg		8260B	10/31/14	1
1,1-Dichloroethane	75-34-3	U	.00024	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,2-Dichloroethane	107-06-2	U	.00032	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,1-Dichloroethene	75-35-4	U	.00037	0.00061	0.0012	mg/kg		8260B	10/31/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00029	0.00061	0.0012	mg/kg		8260B	10/31/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00032	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,2-Dichloropropane	78-87-5	U	.00044	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,1-Dichloropropene	563-58-6	U	.00039	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,3-Dichloropropane	142-28-9	U	.00026	0.00061	0.0012	mg/kg		8260B	10/31/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00032	0.00061	0.0012	mg/kg		8260B	10/31/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00033	0.00061	0.0012	mg/kg		8260B	10/31/14	1
2,2-Dichloropropane	594-20-7	U	.00034	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Ethylbenzene	100-41-4	U	.00037	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00042	0.00061	0.0012	mg/kg		8260B	10/31/14	1
2-Hexanone	591-78-6	U	.0046	0.0061	0.012	mg/kg		8260B	10/31/14	1
Isopropylbenzene	98-82-8	U	.00029	0.00061	0.0012	mg/kg		8260B	10/31/14	1
p-Isopropyltoluene	99-87-6	U	.00024	0.00061	0.0012	mg/kg		8260B	10/31/14	1
2-Butanone (MEK)	78-93-3	0.011	.0057	0.0061	0.012	mg/kg	J	8260B	10/31/14	1
Methylene Chloride	75-09-2	U	.0012	0.0031	0.0061	mg/kg		8260B	10/31/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0023	0.0061	0.012	mg/kg		8260B	10/31/14	1
Methyl tert-butyl ether	1634-04-4	U	.00026	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Naphthalene	91-20-3	U	.0012	0.0031	0.0061	mg/kg		8260B	10/31/14	1
n-Propylbenzene	103-65-1	U	.00026	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Styrene	100-42-5	U	.00028	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00032	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00044	0.00092	0.0012	mg/kg		8260B	10/31/14	1
Tetrachloroethene	127-18-4	U	.00034	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Toluene	108-88-3	0.00087	.00052	0.0031	0.0061	mg/kg	J	8260B	10/31/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.00038	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00048	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,1,1-Trichloroethane	71-55-6	U	.00035	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,1,2-Trichloroethane	79-00-5	U	.00034	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Trichloroethene	79-01-6	U	.00034	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Trichlorofluoromethane	75-69-4	U	.00046	0.0031	0.0061	mg/kg		8260B	10/31/14	1
1,2,3-Trichloropropane	96-18-4	U	.0009	0.0012	0.0030	mg/kg		8260B	10/31/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.00026	0.00061	0.0012	mg/kg		8260B	10/31/14	1

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Reported: 11/05/14 16:13 Revised: 11/18/14 11:05
L729564-01 (PH) - 6.5@20.8c
L729564-01 (ICP METALS) - Diluted 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 # : L729564-01

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.00042	0.00061	0.0012	mg/kg		8260B	10/31/14	1
m&p-Xylene	1330-20-7	U	.00088	0.0012	0.0024	mg/kg		8260B	10/31/14	1
Vinyl chloride	75-01-4	U	.00035	0.00061	0.0012	mg/kg		8260B	10/31/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00033	0.00061	0.0012	mg/kg		8260B	10/31/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	103.				% Rec.		8260B	10/31/14	1
Dibromofluoromethane	1868-53-7	112.				% Rec.		8260B	10/31/14	1
4-Bromofluorobenzene	460-00-4	100.				% Rec.		8260B	10/31/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2	2.4	4.9	mg/kg		8015	10/29/14	1
C28-C40 Oil Range		U	.33	2.4	4.9	mg/kg		8015	10/29/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	77.8				% Rec.		8015	10/29/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Acenaphthene	83-32-9	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Acenaphthylene	208-96-8	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Benzo(a)anthracene	56-55-3	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Benzo(a)pyrene	50-32-8	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Benzo(b)fluoranthene	205-99-2	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Benzo(k)fluoranthene	207-08-9	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Chrysene	218-01-9	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Fluoranthene	206-44-0	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Fluorene	86-73-7	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Naphthalene	91-20-3	U	.00073	0.0073	0.024	mg/kg		8270C-SI	10/29/14	1
Phenanthrene	85-01-8	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
Pyrene	129-00-0	U	.00073	0.0024	0.0073	mg/kg		8270C-SI	10/29/14	1
2-Methylnaphthalene	91-57-6	U	.00078	0.0073	0.024	mg/kg		8270C-SI	10/29/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	70.5				% Rec.		8270C-SI	10/29/14	1
Nitrobenzene-d5	4165-60-0	84.9				% Rec.		8270C-SI	10/29/14	1
2-Fluorobiphenyl	321-60-8	84.6				% Rec.		8270C-SI	10/29/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.0094	0.20	0.41	mg/kg		8270C	10/29/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.011	0.20	0.41	mg/kg		8270C	10/29/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.0093	0.20	0.41	mg/kg		8270C	10/29/14	1
Benzyl Alcohol	100-51-6	U	.0092	0.20	0.41	mg/kg		8270C	10/29/14	1
Benzoic acid	65-85-0	U	.15	2.0	4.1	mg/kg		8270C	10/29/14	1
Carbazole	86-74-8	U	.0063	0.20	0.41	mg/kg		8270C	10/29/14	1

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Reported: 11/05/14 16:13 Revised: 11/18/14 11:05
L729564-01 (PH) - 6.5@20.8c
L729564-01 (ICP METALS) - Diluted due to matrix.

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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 # : L729564-01

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0063	0.20	0.41	mg/kg		8270C	10/29/14	1
4-Bromophenyl-phenylether	101-55-3	U	.013	0.20	0.41	mg/kg		8270C	10/29/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0077	0.20	0.41	mg/kg		8270C	10/29/14	1
2-Chloronaphthalene	91-58-7	U	.0078	0.20	0.41	mg/kg		8270C	10/29/14	1
3,3-Dichlorobenzidine	91-94-1	U	.096	0.20	0.41	mg/kg		8270C	10/29/14	1
2,4-Dinitrotoluene	121-14-2	U	.0074	0.20	0.41	mg/kg		8270C	10/29/14	1
2,6-Dinitrotoluene	606-20-2	U	.009	0.20	0.41	mg/kg		8270C	10/29/14	1
Hexachlorobenzene	118-74-1	U	.01	0.20	0.41	mg/kg		8270C	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.012	0.20	0.41	mg/kg		8270C	10/29/14	1
Hexachloroethane	67-72-1	U	.016	0.20	0.41	mg/kg		8270C	10/29/14	1
Isophorone	78-59-1	U	.0063	0.20	0.41	mg/kg		8270C	10/29/14	1
Nitrobenzene	98-95-3	U	.0085	0.20	0.41	mg/kg		8270C	10/29/14	1
n-Nitrosodimethylamine	62-75-9	U	.079	0.20	0.41	mg/kg		8270C	10/29/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0072	0.20	0.41	mg/kg		8270C	10/29/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.011	0.20	0.41	mg/kg		8270C	10/29/14	1
Benzylbutyl phthalate	85-68-7	U	.012	0.20	0.41	mg/kg		8270C	10/29/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.015	0.20	0.41	mg/kg		8270C	10/29/14	1
Di-n-butyl phthalate	84-74-2	U	.013	0.20	0.41	mg/kg		8270C	10/29/14	1
Diethyl phthalate	84-66-2	U	.0084	0.20	0.41	mg/kg		8270C	10/29/14	1
Dimethyl phthalate	131-11-3	U	.0066	0.20	0.41	mg/kg		8270C	10/29/14	1
Di-n-octyl phthalate	117-84-0	U	.011	0.20	0.41	mg/kg		8270C	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.011	0.20	0.41	mg/kg		8270C	10/29/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0059	0.20	0.41	mg/kg		8270C	10/29/14	1
2-Chlorophenol	95-57-8	U	.01	0.20	0.41	mg/kg		8270C	10/29/14	1
2,4-Dichlorophenol	120-83-2	U	.0092	0.20	0.41	mg/kg		8270C	10/29/14	1
2,4-Dimethylphenol	105-67-9	U	.057	0.20	0.41	mg/kg		8270C	10/29/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.15	0.20	0.41	mg/kg		8270C	10/29/14	1
2,4-Dinitrophenol	51-28-5	U	.12	0.20	0.41	mg/kg		8270C	10/29/14	1
2-Methylphenol	95-48-7	U	.012	0.20	0.41	mg/kg		8270C	10/29/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.0095	0.20	0.41	mg/kg		8270C	10/29/14	1
2-Nitrophenol	88-75-5	U	.016	0.20	0.41	mg/kg		8270C	10/29/14	1
4-Nitrophenol	100-02-7	U	.063	0.20	0.41	mg/kg		8270C	10/29/14	1
4-Chloroaniline	106-47-8	U	.0043	0.20	0.41	mg/kg		8270C	10/29/14	1
2-Nitroaniline	88-74-4	U	.0093	0.20	0.41	mg/kg		8270C	10/29/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0017	0.20	0.41	mg/kg		8270C	10/29/14	1
3-Nitroaniline	99-09-2	U	.01	0.20	0.41	mg/kg		8270C	10/29/14	1
4-Nitroaniline	100-01-6	U	.0078	0.20	0.41	mg/kg		8270C	10/29/14	1
Pentachlorophenol	87-86-5	U	.059	0.20	0.41	mg/kg		8270C	10/29/14	1
Phenol	108-95-2	U	.0085	0.20	0.41	mg/kg		8270C	10/29/14	1
2,4,5-Trichlorophenol	95-95-4	U	.012	0.20	0.41	mg/kg		8270C	10/29/14	1
2,4,6-Trichlorophenol	88-06-2	U	.0095	0.20	0.41	mg/kg		8270C	10/29/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	53.3				% Rec.		8270C	10/29/14	1
Phenol-d5	4165-62-2	49.7				% Rec.		8270C	10/29/14	1

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L729564-01 (PH) - 6.5@20.8c
L729564-01 (ICP METALS) - Diluted due to matrix.

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729564-01

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	50.3				% Rec.		8270C	10/29/14	1
2-Fluorobiphenyl	321-60-8	57.5				% Rec.		8270C	10/29/14	1
2,4,6-Tribromophenol	118-79-6	61.4				% Rec.		8270C	10/29/14	1
p-Terphenyl-d14	1718-51-0	53.4				% Rec.		8270C	10/29/14	1

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L729564-01 (ICP METALS) - Diluted due to matrix.

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REPORT OF ANALYSIS

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

November 18, 2014

ESC Sample # : L729564-02

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS02

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.6				su		9045D	10/27/14	1
Total Solids	TSOLIDS	77.1	.0333			%		2540 G-2	10/28/14	1
Mercury	7439-97-6	U	.0036	0.013	0.026	mg/kg		7471	10/28/14	1
Aluminum	7429-90-5	1600	23	32.	65.	mg/kg		6010B	11/05/14	5
Antimony	7440-36-0	U	4.9	6.5	13.	mg/kg		6010B	11/05/14	5
Arsenic	7440-38-2	U	4.2	6.5	13.	mg/kg		6010B	11/05/14	5
Barium	7440-39-3	22.	1.1	1.6	3.2	mg/kg		6010B	11/05/14	5
Beryllium	7440-41-7	U	.45	0.65	1.3	mg/kg		6010B	11/05/14	5
Cadmium	7440-43-9	U	.45	1.6	3.2	mg/kg		6010B	11/05/14	5
Chromium	7440-47-3	2.1	.91	3.2	6.5	mg/kg	J	6010B	11/05/14	5
Cobalt	7440-48-4	U	1.6	3.2	6.5	mg/kg		6010B	11/05/14	5
Copper	7440-50-8	U	3.4	6.5	13.	mg/kg		6010B	11/05/14	5
Lead	7439-92-1	U	1.2	1.6	3.2	mg/kg		6010B	11/05/14	5
Manganese	7439-96-5	16.	.78	3.2	6.5	mg/kg		6010B	11/05/14	5
Nickel	7440-02-0	U	3.1	6.5	13.	mg/kg		6010B	11/05/14	5
Selenium	7782-49-2	U	4.8	6.5	13.	mg/kg		6010B	11/05/14	5
Silver	7440-22-4	U	1.8	3.2	6.5	mg/kg		6010B	11/05/14	5
Thallium	7440-28-0	U	4.2	6.5	13.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	3.5	1.6	6.5	13.	mg/kg	J	6010B	11/05/14	5
Zinc	7440-66-6	5.0	3.9	16.	32.	mg/kg	J	6010B	11/05/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.88	2.0	4.0	mg/kg		8015D/GR	10/31/14	31.25
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.2				% Rec.		8015D/GR	10/31/14	31.25
Volatile Organics										
Acetone	67-64-1	0.026	.013	0.032	0.065	mg/kg	J	8260B	10/31/14	1
Benzene	71-43-2	U	.00035	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Bromobenzene	108-86-1	U	.00036	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Bromochloromethane	74-97-5	U	.0005	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Bromodichloromethane	75-27-4	U	.00032	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Bromoform	75-25-2	U	.00054	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Bromomethane	74-83-9	U	.0017	0.0032	0.0065	mg/kg		8260B	10/31/14	1
n-Butylbenzene	104-51-8	U	.00034	0.00065	0.0013	mg/kg		8260B	10/31/14	1
sec-Butylbenzene	135-98-8	U	.00026	0.00065	0.0013	mg/kg		8260B	10/31/14	1
tert-Butylbenzene	98-06-6	U	.00027	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Carbon Disulfide	75-15-0	U	.00036	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Carbon tetrachloride	56-23-5	U	.00043	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Chlorobenzene	108-90-7	U	.00027	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Chlorodibromomethane	124-48-1	U	.00048	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Chloroethane	75-00-3	U	.0012	0.0032	0.0065	mg/kg		8260B	10/31/14	1
Chloroform	67-66-3	U	.0003	0.0032	0.0065	mg/kg		8260B	10/31/14	1

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L729564-02 (ICP METALS) - Diluted due to matrix.
L729564-02 (PH) - 6.6@20.8c

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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 # : L729564-02

Site ID :

Project # : 23446543.0053AA

Date Received : October 24, 2014
Description : Holloman AFB

Sample ID : TU904-SB05-NS02

Collected By :
Collection Date : 10/23/14 09:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00049	0.00065	0.0032	mg/kg		8260B	10/31/14	1
2-Chlorotoluene	95-49-8	U	.00039	0.00065	0.0013	mg/kg		8260B	10/31/14	1
4-Chlorotoluene	106-43-4	U	.00031	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0013	0.0032	0.0065	mg/kg		8260B	10/31/14	1
1,2-Dibromoethane	106-93-4	U	.00044	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Dibromomethane	74-95-3	U	.00049	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,2-Dichlorobenzene	95-50-1	U	.00039	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,3-Dichlorobenzene	541-73-1	U	.00031	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,4-Dichlorobenzene	106-46-7	U	.0003	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Dichlorodifluoromethane	75-71-8	U	.00092	0.0032	0.0065	mg/kg		8260B	10/31/14	1
1,1-Dichloroethane	75-34-3	U	.00026	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,2-Dichloroethane	107-06-2	U	.00034	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,1-Dichloroethene	75-35-4	U	.00039	0.00065	0.0013	mg/kg		8260B	10/31/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00031	0.00065	0.0013	mg/kg		8260B	10/31/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00034	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,2-Dichloropropane	78-87-5	U	.00047	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,1-Dichloropropene	563-58-6	U	.00042	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,3-Dichloropropane	142-28-9	U	.00027	0.00065	0.0013	mg/kg		8260B	10/31/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00034	0.00065	0.0013	mg/kg		8260B	10/31/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00035	0.00065	0.0013	mg/kg		8260B	10/31/14	1
2,2-Dichloropropane	594-20-7	U	.00036	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Ethylbenzene	100-41-4	U	.00039	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00044	0.00065	0.0013	mg/kg		8260B	10/31/14	1
2-Hexanone	591-78-6	U	.0049	0.0065	0.013	mg/kg		8260B	10/31/14	1
Isopropylbenzene	98-82-8	U	.00031	0.00065	0.0013	mg/kg		8260B	10/31/14	1
p-Isopropyltoluene	99-87-6	U	.00026	0.00065	0.0013	mg/kg		8260B	10/31/14	1
2-Butanone (MEK)	78-93-3	U	.0061	0.0065	0.013	mg/kg		8260B	10/31/14	1
Methylene Chloride	75-09-2	U	.0013	0.0032	0.0065	mg/kg		8260B	10/31/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0025	0.0065	0.013	mg/kg		8260B	10/31/14	1
Methyl tert-butyl ether	1634-04-4	U	.00027	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Naphthalene	91-20-3	U	.0013	0.0032	0.0065	mg/kg		8260B	10/31/14	1
n-Propylbenzene	103-65-1	U	.00027	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Styrene	100-42-5	U	.0003	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00034	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00047	0.00097	0.0013	mg/kg		8260B	10/31/14	1
Tetrachloroethene	127-18-4	U	.00036	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Toluene	108-88-3	U	.00056	0.0032	0.0065	mg/kg		8260B	10/31/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.0004	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.0005	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,1,1-Trichloroethane	71-55-6	U	.00037	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,1,2-Trichloroethane	79-00-5	U	.00036	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Trichloroethene	79-01-6	U	.00036	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Trichlorofluoromethane	75-69-4	U	.00049	0.0032	0.0065	mg/kg		8260B	10/31/14	1
1,2,3-Trichloropropane	96-18-4	U	.00096	0.0013	0.0032	mg/kg		8260B	10/31/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.00027	0.00065	0.0013	mg/kg		8260B	10/31/14	1

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L729564-02 (ICP METALS) - Diluted due to matrix.
L729564-02 (PH) - 6.6@20.8c

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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 # : L729564-02

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS02

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:35

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	10/31/14	1
m&p-Xylene	1330-20-7	U	.00093	0.0013	0.0026	mg/kg		8260B	10/31/14	1
Vinyl chloride	75-01-4	U	.00038	0.00065	0.0013	mg/kg		8260B	10/31/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00035	0.00065	0.0013	mg/kg		8260B	10/31/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	102.				% Rec.		8260B	10/31/14	1
Dibromofluoromethane	1868-53-7	113.				% Rec.		8260B	10/31/14	1
4-Bromofluorobenzene	460-00-4	99.6				% Rec.		8260B	10/31/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.1	2.6	5.2	mg/kg		8015	10/29/14	1
C28-C40 Oil Range		U	.35	2.6	5.2	mg/kg		8015	10/29/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	78.5				% Rec.		8015	10/29/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Acenaphthene	83-32-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Acenaphthylene	208-96-8	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Benzo(a)anthracene	56-55-3	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Benzo(a)pyrene	50-32-8	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Benzo(b)fluoranthene	205-99-2	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Benzo(k)fluoranthene	207-08-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Chrysene	218-01-9	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Fluoranthene	206-44-0	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Fluorene	86-73-7	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Naphthalene	91-20-3	U	.00078	0.0078	0.026	mg/kg		8270C-SI	10/29/14	1
Phenanthrene	85-01-8	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
Pyrene	129-00-0	U	.00078	0.0026	0.0078	mg/kg		8270C-SI	10/29/14	1
2-Methylnaphthalene	91-57-6	U	.00083	0.0078	0.026	mg/kg		8270C-SI	10/29/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	69.1				% Rec.		8270C-SI	10/29/14	1
Nitrobenzene-d5	4165-60-0	83.7				% Rec.		8270C-SI	10/29/14	1
2-Fluorobiphenyl	321-60-8	82.6				% Rec.		8270C-SI	10/29/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.01	0.22	0.43	mg/kg		8270C	10/29/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.012	0.22	0.43	mg/kg		8270C	10/29/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.0098	0.22	0.43	mg/kg		8270C	10/29/14	1
Benzyl Alcohol	100-51-6	U	.0097	0.22	0.43	mg/kg		8270C	10/29/14	1
Benzoic acid	65-85-0	U	.16	2.2	4.3	mg/kg		8270C	10/29/14	1
Carbazole	86-74-8	U	.0067	0.22	0.43	mg/kg		8270C	10/29/14	1

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L729564-02 (ICP METALS) - Diluted due to matrix.
L729564-02 (PH) - 6.6@20.8c

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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 # : L729564-02

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS02

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0067	0.22	0.43	mg/kg		8270C	10/29/14	1
4-Bromophenyl-phenylether	101-55-3	U	.014	0.22	0.43	mg/kg		8270C	10/29/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0082	0.22	0.43	mg/kg		8270C	10/29/14	1
2-Chloronaphthalene	91-58-7	U	.0083	0.22	0.43	mg/kg		8270C	10/29/14	1
3,3-Dichlorobenzidine	91-94-1	U	.1	0.22	0.43	mg/kg		8270C	10/29/14	1
2,4-Dinitrotoluene	121-14-2	U	.0079	0.22	0.43	mg/kg		8270C	10/29/14	1
2,6-Dinitrotoluene	606-20-2	U	.0096	0.22	0.43	mg/kg		8270C	10/29/14	1
Hexachlorobenzene	118-74-1	U	.011	0.22	0.43	mg/kg		8270C	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.013	0.22	0.43	mg/kg		8270C	10/29/14	1
Hexachloroethane	67-72-1	U	.017	0.22	0.43	mg/kg		8270C	10/29/14	1
Isophorone	78-59-1	U	.0067	0.22	0.43	mg/kg		8270C	10/29/14	1
Nitrobenzene	98-95-3	U	.0091	0.22	0.43	mg/kg		8270C	10/29/14	1
n-Nitrosodimethylamine	62-75-9	U	.084	0.22	0.43	mg/kg		8270C	10/29/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0076	0.22	0.43	mg/kg		8270C	10/29/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.012	0.22	0.43	mg/kg		8270C	10/29/14	1
Benzylbutyl phthalate	85-68-7	U	.013	0.22	0.43	mg/kg		8270C	10/29/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.016	0.22	0.43	mg/kg		8270C	10/29/14	1
Di-n-butyl phthalate	84-74-2	U	.014	0.22	0.43	mg/kg		8270C	10/29/14	1
Diethyl phthalate	84-66-2	U	.0089	0.22	0.43	mg/kg		8270C	10/29/14	1
Dimethyl phthalate	131-11-3	U	.007	0.22	0.43	mg/kg		8270C	10/29/14	1
Di-n-octyl phthalate	117-84-0	U	.012	0.22	0.43	mg/kg		8270C	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.011	0.22	0.43	mg/kg		8270C	10/29/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0062	0.22	0.43	mg/kg		8270C	10/29/14	1
2-Chlorophenol	95-57-8	U	.011	0.22	0.43	mg/kg		8270C	10/29/14	1
2,4-Dichlorophenol	120-83-2	U	.0097	0.22	0.43	mg/kg		8270C	10/29/14	1
2,4-Dimethylphenol	105-67-9	U	.061	0.22	0.43	mg/kg		8270C	10/29/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.16	0.22	0.43	mg/kg		8270C	10/29/14	1
2,4-Dinitrophenol	51-28-5	U	.13	0.22	0.43	mg/kg		8270C	10/29/14	1
2-Methylphenol	95-48-7	U	.013	0.22	0.43	mg/kg		8270C	10/29/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.01	0.22	0.43	mg/kg		8270C	10/29/14	1
2-Nitrophenol	88-75-5	U	.017	0.22	0.43	mg/kg		8270C	10/29/14	1
4-Nitrophenol	100-02-7	U	.067	0.22	0.43	mg/kg		8270C	10/29/14	1
4-Chloroaniline	106-47-8	U	.0045	0.22	0.43	mg/kg		8270C	10/29/14	1
2-Nitroaniline	88-74-4	U	.0098	0.22	0.43	mg/kg		8270C	10/29/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0018	0.22	0.43	mg/kg		8270C	10/29/14	1
3-Nitroaniline	99-09-2	U	.011	0.22	0.43	mg/kg		8270C	10/29/14	1
4-Nitroaniline	100-01-6	U	.0083	0.22	0.43	mg/kg		8270C	10/29/14	1
Pentachlorophenol	87-86-5	U	.062	0.22	0.43	mg/kg		8270C	10/29/14	1
Phenol	108-95-2	U	.0091	0.22	0.43	mg/kg		8270C	10/29/14	1
2,4,5-Trichlorophenol	95-95-4	U	.013	0.22	0.43	mg/kg		8270C	10/29/14	1
2,4,6-Trichlorophenol	88-06-2	U	.01	0.22	0.43	mg/kg		8270C	10/29/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	54.9				% Rec.		8270C	10/29/14	1
Phenol-d5	4165-62-2	52.8				% Rec.		8270C	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 # : L729564-02

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB05-NS02

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	52.1				% Rec.		8270C	10/29/14	1
2-Fluorobiphenyl	321-60-8	60.1				% Rec.		8270C	10/29/14	1
2,4,6-Tribromophenol	118-79-6	64.2				% Rec.		8270C	10/29/14	1
p-Terphenyl-d14	1718-51-0	54.0				% Rec.		8270C	10/29/14	1

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REPORT OF ANALYSIS

Sheri Fling
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8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729564-03

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-TRIPBLANK06-NT01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 12:00

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	10/30/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	100.				% Rec.		8015D/G	10/30/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	10/26/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	10/26/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	10/26/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	10/26/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	10/26/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	10/26/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	10/26/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	10/26/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	10/26/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	10/26/14	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	10/26/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	10/26/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	10/26/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	10/26/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	10/26/14	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	10/26/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	10/26/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	10/26/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	10/26/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	10/26/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	10/26/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	10/26/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	10/26/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	10/26/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	10/26/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	10/26/14	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	10/26/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	10/26/14	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	10/26/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	10/26/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	10/26/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	10/26/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	10/26/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	10/26/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l	J4	8260B	10/26/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	10/26/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	10/26/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	10/26/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	10/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	10/26/14	1

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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 # : L729564-03

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-TRIPBLANK06-NT01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 12:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	10/26/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	10/26/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	10/26/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	10/26/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	10/26/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	10/26/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	10/26/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	10/26/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	10/26/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	10/26/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	10/26/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	10/26/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	10/26/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	10/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	10/26/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	10/26/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	10/26/14	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	10/26/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	10/26/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	10/26/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	10/26/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	10/26/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	10/26/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	10/26/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	10/26/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	98.9				% Rec.		8260B	10/26/14	1
Dibromofluoromethane	1868-53-7	98.7				% Rec.		8260B	10/26/14	1
4-Bromofluorobenzene	460-00-4	99.6				% Rec.		8260B	10/26/14	1

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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 # : L729564-04

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB08-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 08:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.6				su		9045D	10/27/14	1
Total Solids	TSOLIDS	90.8	.0333			%		2540 G-2	10/28/14	1
Mercury	7439-97-6	0.0038	.0031	0.011	0.022	mg/kg	J	7471	10/28/14	1
Aluminum	7429-90-5	7300	20	28.	55.	mg/kg		6010B	11/05/14	5
Antimony	7440-36-0	U	4.2	5.5	11.	mg/kg		6010B	11/05/14	5
Arsenic	7440-38-2	U	3.5	5.5	11.	mg/kg		6010B	11/05/14	5
Barium	7440-39-3	73.	.94	1.4	2.8	mg/kg		6010B	11/05/14	5
Beryllium	7440-41-7	U	.38	0.55	1.1	mg/kg		6010B	11/05/14	5
Cadmium	7440-43-9	U	.38	1.4	2.8	mg/kg		6010B	11/05/14	5
Chromium	7440-47-3	10.	.77	2.8	5.5	mg/kg		6010B	11/05/14	5
Cobalt	7440-48-4	3.3	1.3	2.8	5.5	mg/kg	J	6010B	11/05/14	5
Copper	7440-50-8	3.7	2.9	5.5	11.	mg/kg	J	6010B	11/05/14	5
Lead	7439-92-1	4.5	1	1.4	2.8	mg/kg		6010B	11/05/14	5
Manganese	7439-96-5	160	.66	2.8	5.5	mg/kg		6010B	11/05/14	5
Nickel	7440-02-0	6.5	2.6	5.5	11.	mg/kg	J	6010B	11/05/14	5
Selenium	7782-49-2	U	4.1	5.5	11.	mg/kg		6010B	11/05/14	5
Silver	7440-22-4	U	1.5	2.8	5.5	mg/kg		6010B	11/05/14	5
Thallium	7440-28-0	U	3.5	5.5	11.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	18.	1.3	5.5	11.	mg/kg		6010B	11/05/14	5
Zinc	7440-66-6	22.	3.3	14.	28.	mg/kg	J	6010B	11/05/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.6	1.4	2.8	mg/kg		8015D/GR	10/31/14	25.25
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.1				% Rec.		8015D/GR	10/31/14	25.25
Volatile Organics										
Acetone	67-64-1	0.025	.011	0.028	0.055	mg/kg	J	8260B	10/31/14	1
Benzene	71-43-2	0.0073	.0003	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Bromobenzene	108-86-1	U	.00031	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Bromochloromethane	74-97-5	U	.00043	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Bromodichloromethane	75-27-4	U	.00028	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Bromoform	75-25-2	U	.00046	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Bromomethane	74-83-9	U	.0014	0.0028	0.0055	mg/kg		8260B	10/31/14	1
n-Butylbenzene	104-51-8	U	.00029	0.00055	0.0011	mg/kg		8260B	10/31/14	1
sec-Butylbenzene	135-98-8	U	.00022	0.00055	0.0011	mg/kg		8260B	10/31/14	1
tert-Butylbenzene	98-06-6	U	.00023	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Carbon Disulfide	75-15-0	0.00037	.00031	0.00055	0.0011	mg/kg	J	8260B	10/31/14	1
Carbon tetrachloride	56-23-5	U	.00036	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Chlorobenzene	108-90-7	U	.00023	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Chlorodibromomethane	124-48-1	U	.00041	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Chloroethane	75-00-3	U	.001	0.0028	0.0055	mg/kg		8260B	10/31/14	1
Chloroform	67-66-3	U	.00025	0.0028	0.0055	mg/kg		8260B	10/31/14	1

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L729564-04 (ICP METALS) - Diluted due to matrix.
L729564-04 (PH) - 6.6@20.7c

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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 # : L729564-04

Site ID :

Project # : 23446543.0053AA

Date Received : October 24, 2014
Description : Holloman AFB

Sample ID : TU904-SB08-NS01

Collected By :
Collection Date : 10/23/14 08:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00042	0.00055	0.0028	mg/kg		8260B	10/31/14	1
2-Chlorotoluene	95-49-8	U	.00033	0.00055	0.0011	mg/kg		8260B	10/31/14	1
4-Chlorotoluene	106-43-4	U	.00026	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0011	0.0028	0.0055	mg/kg		8260B	10/31/14	1
1,2-Dibromoethane	106-93-4	U	.00037	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Dibromomethane	74-95-3	U	.00042	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,2-Dichlorobenzene	95-50-1	U	.00033	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,3-Dichlorobenzene	541-73-1	U	.00026	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,4-Dichlorobenzene	106-46-7	U	.00025	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Dichlorodifluoromethane	75-71-8	U	.00078	0.0028	0.0055	mg/kg		8260B	10/31/14	1
1,1-Dichloroethane	75-34-3	U	.00022	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,2-Dichloroethane	107-06-2	U	.00029	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,1-Dichloroethene	75-35-4	U	.00033	0.00055	0.0011	mg/kg		8260B	10/31/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00026	0.00055	0.0011	mg/kg		8260B	10/31/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00029	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,2-Dichloropropane	78-87-5	U	.0004	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,1-Dichloropropene	563-58-6	U	.00035	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,3-Dichloropropane	142-28-9	U	.00023	0.00055	0.0011	mg/kg		8260B	10/31/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00029	0.00055	0.0011	mg/kg		8260B	10/31/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.0003	0.00055	0.0011	mg/kg		8260B	10/31/14	1
2,2-Dichloropropane	594-20-7	U	.00031	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Ethylbenzene	100-41-4	0.0012	.00033	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00037	0.00055	0.0011	mg/kg		8260B	10/31/14	1
2-Hexanone	591-78-6	U	.0042	0.0055	0.011	mg/kg		8260B	10/31/14	1
Isopropylbenzene	98-82-8	U	.00026	0.00055	0.0011	mg/kg		8260B	10/31/14	1
p-Isopropyltoluene	99-87-6	U	.00022	0.00055	0.0011	mg/kg		8260B	10/31/14	1
2-Butanone (MEK)	78-93-3	0.0062	.0052	0.0055	0.011	mg/kg	J	8260B	10/31/14	1
Methylene Chloride	75-09-2	U	.0011	0.0028	0.0055	mg/kg		8260B	10/31/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0021	0.0055	0.011	mg/kg		8260B	10/31/14	1
Methyl tert-butyl ether	1634-04-4	U	.00023	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Naphthalene	91-20-3	U	.0011	0.0028	0.0055	mg/kg		8260B	10/31/14	1
n-Propylbenzene	103-65-1	U	.00023	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Styrene	100-42-5	U	.00025	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00029	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.0004	0.00083	0.0011	mg/kg		8260B	10/31/14	1
Tetrachloroethene	127-18-4	U	.00031	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Toluene	108-88-3	0.0067	.00047	0.0028	0.0055	mg/kg		8260B	10/31/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.00034	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00043	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,1,1-Trichloroethane	71-55-6	U	.00031	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,1,2-Trichloroethane	79-00-5	U	.00031	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Trichloroethene	79-01-6	U	.00031	0.00055	0.0011	mg/kg		8260B	10/31/14	1
Trichlorofluoromethane	75-69-4	U	.00042	0.0028	0.0055	mg/kg		8260B	10/31/14	1
1,2,3-Trichloropropane	96-18-4	U	.00081	0.0011	0.0028	mg/kg		8260B	10/31/14	1
1,2,4-Trimethylbenzene	95-63-6	0.00095	.00023	0.00055	0.0011	mg/kg	J	8260B	10/31/14	1

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L729564-04 (PH) - 6.6@20.7c

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729564-04

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB08-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 08:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	0.00091	.00037	0.00055	0.0011	mg/kg	J	8260B	10/31/14	1
m&p-Xylene	1330-20-7	0.0026	.00079	0.0011	0.0022	mg/kg		8260B	10/31/14	1
Vinyl chloride	75-01-4	U	.00032	0.00055	0.0011	mg/kg		8260B	10/31/14	1
1,3,5-Trimethylbenzene	108-67-8	0.00046	.0003	0.00055	0.0011	mg/kg	J	8260B	10/31/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	104.				% Rec.		8260B	10/31/14	1
Dibromofluoromethane	1868-53-7	111.				% Rec.		8260B	10/31/14	1
4-Bromofluorobenzene	460-00-4	102.				% Rec.		8260B	10/31/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	1.8	2.2	4.4	mg/kg		8015	10/29/14	1
C28-C40 Oil Range		U	.3	2.2	4.4	mg/kg		8015	10/29/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	74.4				% Rec.		8015	10/29/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Acenaphthene	83-32-9	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Acenaphthylene	208-96-8	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Benzo(a)anthracene	56-55-3	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Benzo(a)pyrene	50-32-8	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Benzo(b)fluoranthene	205-99-2	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Benzo(k)fluoranthene	207-08-9	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Chrysene	218-01-9	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Fluoranthene	206-44-0	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Fluorene	86-73-7	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Naphthalene	91-20-3	U	.00066	0.0066	0.022	mg/kg		8270C-SI	10/29/14	1
Phenanthrene	85-01-8	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
Pyrene	129-00-0	U	.00066	0.0022	0.0066	mg/kg		8270C-SI	10/29/14	1
2-Methylnaphthalene	91-57-6	U	.0007	0.0066	0.022	mg/kg		8270C-SI	10/29/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	69.7				% Rec.		8270C-SI	10/29/14	1
Nitrobenzene-d5	4165-60-0	87.7				% Rec.		8270C-SI	10/29/14	1
2-Fluorobiphenyl	321-60-8	85.5				% Rec.		8270C-SI	10/29/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.0085	0.18	0.37	mg/kg		8270C	10/29/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.0099	0.18	0.37	mg/kg		8270C	10/29/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.0084	0.18	0.37	mg/kg		8270C	10/29/14	1
Benzyl Alcohol	100-51-6	U	.0082	0.18	0.37	mg/kg		8270C	10/29/14	1
Benzoic acid	65-85-0	U	.13	1.8	3.7	mg/kg		8270C	10/29/14	1
Carbazole	86-74-8	U	.0057	0.18	0.37	mg/kg		8270C	10/29/14	1

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Reported: 11/05/14 16:13 Revised: 11/18/14 11:05
L729564-04 (ICP METALS) - Diluted due to matrix.
L729564-04 (PH) - 6.6@20.7c

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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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 # : L729564-04

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB08-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 08:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0057	0.18	0.37	mg/kg		8270C	10/29/14	1
4-Bromophenyl-phenylether	101-55-3	U	.012	0.18	0.37	mg/kg		8270C	10/29/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0069	0.18	0.37	mg/kg		8270C	10/29/14	1
2-Chloronaphthalene	91-58-7	U	.007	0.18	0.37	mg/kg		8270C	10/29/14	1
3,3-Dichlorobenzidine	91-94-1	U	.087	0.18	0.37	mg/kg		8270C	10/29/14	1
2,4-Dinitrotoluene	121-14-2	U	.0067	0.18	0.37	mg/kg		8270C	10/29/14	1
2,6-Dinitrotoluene	606-20-2	U	.0081	0.18	0.37	mg/kg		8270C	10/29/14	1
Hexachlorobenzene	118-74-1	U	.0095	0.18	0.37	mg/kg		8270C	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.011	0.18	0.37	mg/kg		8270C	10/29/14	1
Hexachloroethane	67-72-1	U	.014	0.18	0.37	mg/kg		8270C	10/29/14	1
Isophorone	78-59-1	U	.0057	0.18	0.37	mg/kg		8270C	10/29/14	1
Nitrobenzene	98-95-3	U	.0077	0.18	0.37	mg/kg		8270C	10/29/14	1
n-Nitrosodimethylamine	62-75-9	U	.072	0.18	0.37	mg/kg		8270C	10/29/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0065	0.18	0.37	mg/kg		8270C	10/29/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.01	0.18	0.37	mg/kg		8270C	10/29/14	1
Benzylbutyl phthalate	85-68-7	U	.011	0.18	0.37	mg/kg		8270C	10/29/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.013	0.18	0.37	mg/kg		8270C	10/29/14	1
Di-n-butyl phthalate	84-74-2	U	.012	0.18	0.37	mg/kg		8270C	10/29/14	1
Diethyl phthalate	84-66-2	U	.0076	0.18	0.37	mg/kg		8270C	10/29/14	1
Dimethyl phthalate	131-11-3	U	.0059	0.18	0.37	mg/kg		8270C	10/29/14	1
Di-n-octyl phthalate	117-84-0	U	.01	0.18	0.37	mg/kg		8270C	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.0097	0.18	0.37	mg/kg		8270C	10/29/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0053	0.18	0.37	mg/kg		8270C	10/29/14	1
2-Chlorophenol	95-57-8	U	.0091	0.18	0.37	mg/kg		8270C	10/29/14	1
2,4-Dichlorophenol	120-83-2	U	.0082	0.18	0.37	mg/kg		8270C	10/29/14	1
2,4-Dimethylphenol	105-67-9	U	.052	0.18	0.37	mg/kg		8270C	10/29/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.13	0.18	0.37	mg/kg		8270C	10/29/14	1
2,4-Dinitrophenol	51-28-5	U	.11	0.18	0.37	mg/kg		8270C	10/29/14	1
2-Methylphenol	95-48-7	U	.011	0.18	0.37	mg/kg		8270C	10/29/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.0086	0.18	0.37	mg/kg		8270C	10/29/14	1
2-Nitrophenol	88-75-5	U	.014	0.18	0.37	mg/kg		8270C	10/29/14	1
4-Nitrophenol	100-02-7	U	.057	0.18	0.37	mg/kg		8270C	10/29/14	1
4-Chloroaniline	106-47-8	U	.0038	0.18	0.37	mg/kg		8270C	10/29/14	1
2-Nitroaniline	88-74-4	U	.0084	0.18	0.37	mg/kg		8270C	10/29/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0015	0.18	0.37	mg/kg		8270C	10/29/14	1
3-Nitroaniline	99-09-2	U	.0094	0.18	0.37	mg/kg		8270C	10/29/14	1
4-Nitroaniline	100-01-6	U	.007	0.18	0.37	mg/kg		8270C	10/29/14	1
Pentachlorophenol	87-86-5	U	.053	0.18	0.37	mg/kg		8270C	10/29/14	1
Phenol	108-95-2	U	.0077	0.18	0.37	mg/kg		8270C	10/29/14	1
2,4,5-Trichlorophenol	95-95-4	U	.011	0.18	0.37	mg/kg		8270C	10/29/14	1
2,4,6-Trichlorophenol	88-06-2	U	.0086	0.18	0.37	mg/kg		8270C	10/29/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	54.7				% Rec.		8270C	10/29/14	1
Phenol-d5	4165-62-2	51.5				% Rec.		8270C	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 # : L729564-04

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB08-NS01

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 08:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	48.9				% Rec.		8270C	10/29/14	1
2-Fluorobiphenyl	321-60-8	56.9				% Rec.		8270C	10/29/14	1
2,4,6-Tribromophenol	118-79-6	62.9				% Rec.		8270C	10/29/14	1
p-Terphenyl-d14	1718-51-0	53.6				% Rec.		8270C	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 # : L729564-05

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB08-NS02

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.7				su		9045D	10/27/14	1
Total Solids	TSOLIDS	84.2	.0333			%		2540 G-2	10/28/14	1
Mercury	7439-97-6	0.0045	.0033	0.012	0.024	mg/kg	J	7471	10/28/14	1
Aluminum	7429-90-5	13000	21	30.	59.	mg/kg	O1V	6010B	11/05/14	5
Antimony	7440-36-0	U	4.5	5.9	12.	mg/kg	O1J6	6010B	11/05/14	5
Arsenic	7440-38-2	U	3.8	5.9	12.	mg/kg		6010B	11/05/14	5
Barium	7440-39-3	75.	1	1.5	3.0	mg/kg	O1J5	6010B	11/05/14	5
Beryllium	7440-41-7	0.49	.42	0.59	1.2	mg/kg	J	6010B	11/05/14	5
Cadmium	7440-43-9	U	.42	1.5	3.0	mg/kg		6010B	11/05/14	5
Chromium	7440-47-3	14.	.83	3.0	5.9	mg/kg		6010B	11/05/14	5
Cobalt	7440-48-4	4.9	1.4	3.0	5.9	mg/kg	J	6010B	11/05/14	5
Copper	7440-50-8	6.5	3.1	5.9	12.	mg/kg	J	6010B	11/05/14	5
Lead	7439-92-1	5.3	1.1	1.5	3.0	mg/kg		6010B	11/05/14	5
Manganese	7439-96-5	180	.71	3.0	5.9	mg/kg	O1J6	6010B	11/05/14	5
Nickel	7440-02-0	10.	2.8	5.9	12.	mg/kg	J	6010B	11/05/14	5
Selenium	7782-49-2	U	4.4	5.9	12.	mg/kg		6010B	11/05/14	5
Silver	7440-22-4	U	1.7	3.0	5.9	mg/kg		6010B	11/05/14	5
Thallium	7440-28-0	U	3.8	5.9	12.	mg/kg		6010B	11/04/14	5
Vanadium	7440-62-2	28.	1.4	5.9	12.	mg/kg		6010B	11/05/14	5
Zinc	7440-66-6	32.	3.6	15.	30.	mg/kg		6010B	11/05/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.5	1.1	2.3	mg/kg		8015D/GR	10/31/14	19.25
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.0				% Rec.		8015D/GR	10/31/14	19.25
Volatile Organics										
Acetone	67-64-1	0.017	.012	0.030	0.059	mg/kg	J	8260B	10/31/14	1
Benzene	71-43-2	0.0048	.00032	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Bromobenzene	108-86-1	U	.00033	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Bromochloromethane	74-97-5	U	.00046	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Bromodichloromethane	75-27-4	U	.0003	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Bromoform	75-25-2	U	.0005	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Bromomethane	74-83-9	U	.0015	0.0030	0.0059	mg/kg		8260B	10/31/14	1
n-Butylbenzene	104-51-8	U	.00031	0.00059	0.0012	mg/kg		8260B	10/31/14	1
sec-Butylbenzene	135-98-8	U	.00024	0.00059	0.0012	mg/kg		8260B	10/31/14	1
tert-Butylbenzene	98-06-6	U	.00025	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Carbon Disulfide	75-15-0	U	.00033	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Carbon tetrachloride	56-23-5	U	.00039	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Chlorobenzene	108-90-7	U	.00025	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Chlorodibromomethane	124-48-1	U	.00044	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Chloroethane	75-00-3	U	.0011	0.0030	0.0059	mg/kg		8260B	10/31/14	1
Chloroform	67-66-3	U	.00027	0.0030	0.0059	mg/kg		8260B	10/31/14	1

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729564-05

Site ID :

Project # : 23446543.0053AA

Date Received : October 24, 2014
Description : Holloman AFB

Sample ID : TU904-SB08-NS02

Collected By :
Collection Date : 10/23/14 09:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00045	0.00059	0.0030	mg/kg		8260B	10/31/14	1
2-Chlorotoluene	95-49-8	U	.00036	0.00059	0.0012	mg/kg		8260B	10/31/14	1
4-Chlorotoluene	106-43-4	U	.00028	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0012	0.0030	0.0059	mg/kg		8260B	10/31/14	1
1,2-Dibromoethane	106-93-4	U	.0004	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Dibromomethane	74-95-3	U	.00045	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,2-Dichlorobenzene	95-50-1	U	.00036	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,3-Dichlorobenzene	541-73-1	U	.00028	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,4-Dichlorobenzene	106-46-7	U	.00027	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Dichlorodifluoromethane	75-71-8	U	.00084	0.0030	0.0059	mg/kg		8260B	10/31/14	1
1,1-Dichloroethane	75-34-3	U	.00024	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,2-Dichloroethane	107-06-2	U	.00031	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,1-Dichloroethene	75-35-4	U	.00036	0.00059	0.0012	mg/kg		8260B	10/31/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00028	0.00059	0.0012	mg/kg		8260B	10/31/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00031	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,2-Dichloropropane	78-87-5	U	.00043	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,1-Dichloropropene	563-58-6	U	.00038	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,3-Dichloropropane	142-28-9	U	.00025	0.00059	0.0012	mg/kg		8260B	10/31/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00031	0.00059	0.0012	mg/kg		8260B	10/31/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00032	0.00059	0.0012	mg/kg		8260B	10/31/14	1
2,2-Dichloropropane	594-20-7	U	.00033	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Ethylbenzene	100-41-4	0.00069	.00036	0.00059	0.0012	mg/kg	J	8260B	10/31/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.0004	0.00059	0.0012	mg/kg		8260B	10/31/14	1
2-Hexanone	591-78-6	U	.0045	0.0059	0.012	mg/kg		8260B	10/31/14	1
Isopropylbenzene	98-82-8	U	.00028	0.00059	0.0012	mg/kg		8260B	10/31/14	1
p-Isopropyltoluene	99-87-6	U	.00024	0.00059	0.0012	mg/kg		8260B	10/31/14	1
2-Butanone (MEK)	78-93-3	U	.0056	0.0059	0.012	mg/kg		8260B	10/31/14	1
Methylene Chloride	75-09-2	U	.0012	0.0030	0.0059	mg/kg		8260B	10/31/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0022	0.0059	0.012	mg/kg		8260B	10/31/14	1
Methyl tert-butyl ether	1634-04-4	U	.00025	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Naphthalene	91-20-3	U	.0012	0.0030	0.0059	mg/kg		8260B	10/31/14	1
n-Propylbenzene	103-65-1	U	.00025	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Styrene	100-42-5	U	.00027	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00031	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00043	0.00089	0.0012	mg/kg		8260B	10/31/14	1
Tetrachloroethene	127-18-4	U	.00033	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Toluene	108-88-3	0.0040	.00051	0.0030	0.0059	mg/kg	J	8260B	10/31/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.00037	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00046	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,1,1-Trichloroethane	71-55-6	U	.00034	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,1,2-Trichloroethane	79-00-5	U	.00033	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Trichloroethene	79-01-6	U	.00033	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Trichlorofluoromethane	75-69-4	U	.00045	0.0030	0.0059	mg/kg		8260B	10/31/14	1
1,2,3-Trichloropropane	96-18-4	U	.00088	0.0012	0.0030	mg/kg		8260B	10/31/14	1
1,2,4-Trimethylbenzene	95-63-6	0.00063	.00025	0.00059	0.0012	mg/kg	J	8260B	10/31/14	1

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Denver, CO 80237

November 18,2014

ESC Sample # : L729564-05

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB08-NS02

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	0.00046	.0004	0.00059	0.0012	mg/kg	J	8260B	10/31/14	1
m&p-Xylene	1330-20-7	0.0014	.00086	0.0012	0.0024	mg/kg	J	8260B	10/31/14	1
Vinyl chloride	75-01-4	U	.00034	0.00059	0.0012	mg/kg		8260B	10/31/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00032	0.00059	0.0012	mg/kg		8260B	10/31/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	102.				% Rec.		8260B	10/31/14	1
Dibromofluoromethane	1868-53-7	115.				% Rec.		8260B	10/31/14	1
4-Bromofluorobenzene	460-00-4	103.				% Rec.		8260B	10/31/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	1.9	2.4	4.8	mg/kg		8015	10/29/14	1
C28-C40 Oil Range		U	.32	2.4	4.8	mg/kg		8015	10/29/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	72.6				% Rec.		8015	10/29/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Acenaphthene	83-32-9	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Acenaphthylene	208-96-8	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Benzo(a)anthracene	56-55-3	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Benzo(a)pyrene	50-32-8	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Benzo(b)fluoranthene	205-99-2	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Benzo(k)fluoranthene	207-08-9	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Chrysene	218-01-9	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Fluoranthene	206-44-0	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Fluorene	86-73-7	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Naphthalene	91-20-3	U	.00071	0.0071	0.024	mg/kg		8270C-SI	10/29/14	1
Phenanthrene	85-01-8	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
Pyrene	129-00-0	U	.00071	0.0024	0.0071	mg/kg		8270C-SI	10/29/14	1
2-Methylnaphthalene	91-57-6	U	.00076	0.0071	0.024	mg/kg		8270C-SI	10/29/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	60.6				% Rec.		8270C-SI	10/29/14	1
Nitrobenzene-d5	4165-60-0	78.4				% Rec.		8270C-SI	10/29/14	1
2-Fluorobiphenyl	321-60-8	75.3				% Rec.		8270C-SI	10/29/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.0091	0.20	0.40	mg/kg		8270C	10/29/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.011	0.20	0.40	mg/kg		8270C	10/29/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.009	0.20	0.40	mg/kg		8270C	10/29/14	1
Benzyl Alcohol	100-51-6	U	.0089	0.20	0.40	mg/kg		8270C	10/29/14	1
Benzoic acid	65-85-0	U	.14	2.0	4.0	mg/kg		8270C	10/29/14	1
Carbazole	86-74-8	U	.0062	0.20	0.40	mg/kg		8270C	10/29/14	1

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L729564-05 (PH) - 6.7@20.7c
L729564-05 (ICP METALS) - Diluted due to matrix.

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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 # : L729564-05

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB08-NS02

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0062	0.20	0.40	mg/kg		8270C	10/29/14	1
4-Bromophenyl-phenylether	101-55-3	U	.013	0.20	0.40	mg/kg		8270C	10/29/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0075	0.20	0.40	mg/kg		8270C	10/29/14	1
2-Chloronaphthalene	91-58-7	U	.0076	0.20	0.40	mg/kg		8270C	10/29/14	1
3,3-Dichlorobenzidine	91-94-1	U	.094	0.20	0.40	mg/kg		8270C	10/29/14	1
2,4-Dinitrotoluene	121-14-2	U	.0072	0.20	0.40	mg/kg		8270C	10/29/14	1
2,6-Dinitrotoluene	606-20-2	U	.0088	0.20	0.40	mg/kg		8270C	10/29/14	1
Hexachlorobenzene	118-74-1	U	.01	0.20	0.40	mg/kg		8270C	10/29/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.012	0.20	0.40	mg/kg		8270C	10/29/14	1
Hexachloroethane	67-72-1	U	.015	0.20	0.40	mg/kg		8270C	10/29/14	1
Isophorone	78-59-1	U	.0062	0.20	0.40	mg/kg		8270C	10/29/14	1
Nitrobenzene	98-95-3	U	.0083	0.20	0.40	mg/kg		8270C	10/29/14	1
n-Nitrosodimethylamine	62-75-9	U	.077	0.20	0.40	mg/kg		8270C	10/29/14	1
n-Nitrosodiphenylamine	86-30-6	U	.007	0.20	0.40	mg/kg		8270C	10/29/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.011	0.20	0.40	mg/kg		8270C	10/29/14	1
Benzylbutyl phthalate	85-68-7	U	.012	0.20	0.40	mg/kg		8270C	10/29/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.014	0.20	0.40	mg/kg		8270C	10/29/14	1
Di-n-butyl phthalate	84-74-2	U	.013	0.20	0.40	mg/kg		8270C	10/29/14	1
Diethyl phthalate	84-66-2	U	.0082	0.20	0.40	mg/kg		8270C	10/29/14	1
Dimethyl phthalate	131-11-3	U	.0064	0.20	0.40	mg/kg		8270C	10/29/14	1
Di-n-octyl phthalate	117-84-0	U	.011	0.20	0.40	mg/kg		8270C	10/29/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.01	0.20	0.40	mg/kg		8270C	10/29/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0057	0.20	0.40	mg/kg		8270C	10/29/14	1
2-Chlorophenol	95-57-8	U	.0098	0.20	0.40	mg/kg		8270C	10/29/14	1
2,4-Dichlorophenol	120-83-2	U	.0089	0.20	0.40	mg/kg		8270C	10/29/14	1
2,4-Dimethylphenol	105-67-9	U	.056	0.20	0.40	mg/kg		8270C	10/29/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.14	0.20	0.40	mg/kg		8270C	10/29/14	1
2,4-Dinitrophenol	51-28-5	U	.12	0.20	0.40	mg/kg		8270C	10/29/14	1
2-Methylphenol	95-48-7	U	.012	0.20	0.40	mg/kg		8270C	10/29/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.0093	0.20	0.40	mg/kg		8270C	10/29/14	1
2-Nitrophenol	88-75-5	U	.015	0.20	0.40	mg/kg		8270C	10/29/14	1
4-Nitrophenol	100-02-7	U	.062	0.20	0.40	mg/kg		8270C	10/29/14	1
4-Chloroaniline	106-47-8	U	.0042	0.20	0.40	mg/kg		8270C	10/29/14	1
2-Nitroaniline	88-74-4	U	.009	0.20	0.40	mg/kg		8270C	10/29/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0017	0.20	0.40	mg/kg		8270C	10/29/14	1
3-Nitroaniline	99-09-2	U	.01	0.20	0.40	mg/kg		8270C	10/29/14	1
4-Nitroaniline	100-01-6	U	.0076	0.20	0.40	mg/kg		8270C	10/29/14	1
Pentachlorophenol	87-86-5	U	.057	0.20	0.40	mg/kg		8270C	10/29/14	1
Phenol	108-95-2	U	.0083	0.20	0.40	mg/kg		8270C	10/29/14	1
2,4,5-Trichlorophenol	95-95-4	U	.012	0.20	0.40	mg/kg		8270C	10/29/14	1
2,4,6-Trichlorophenol	88-06-2	U	.0093	0.20	0.40	mg/kg		8270C	10/29/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	60.8				% Rec.		8270C	10/29/14	1
Phenol-d5	4165-62-2	54.9				% Rec.		8270C	10/29/14	1

Results listed are dry weight basis.
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L729564-05 (PH) - 6.7@20.7c
L729564-05 (ICP METALS) - Diluted due to matrix.

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REPORT OF ANALYSIS

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

November 18,2014

ESC Sample # : L729564-05

Date Received : October 24, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU904-SB08-NS02

Project # : 23446543.0053AA

Collected By :
Collection Date : 10/23/14 09:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	57.8				% Rec.		8270C	10/29/14	1
2-Fluorobiphenyl	321-60-8	64.4				% Rec.		8270C	10/29/14	1
2,4,6-Tribromophenol	118-79-6	60.8				% Rec.		8270C	10/29/14	1
p-Terphenyl-d14	1718-51-0	56.3				% Rec.		8270C	10/29/14	1

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L729564-05 (PH) - 6.7@20.7c
L729564-05 (ICP METALS) - Diluted due to matrix.

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L729564-01	WG750700	SAMP	Acetone	R3001561	J
	WG750700	SAMP	Benzene	R3001561	J
	WG750700	SAMP	2-Butanone (MEK)	R3001561	J
	WG750700	SAMP	Toluene	R3001561	J
	WG750667	SAMP	Chromium	R3002511	J
	WG750667	SAMP	Lead	R3002511	J
	WG750667	SAMP	Vanadium	R3002511	J
	WG750667	SAMP	Zinc	R3002511	J
L729564-02	WG750700	SAMP	Acetone	R3001561	J
	WG750667	SAMP	Chromium	R3002511	J
	WG750667	SAMP	Vanadium	R3002511	J
	WG750667	SAMP	Zinc	R3002511	J
L729564-03	WG750683	SAMP	cis-1,3-Dichloropropene	R3000777	J4
L729564-04	WG750752	SAMP	Mercury	R3000787	J
	WG750700	SAMP	Acetone	R3001561	J
	WG750700	SAMP	Carbon Disulfide	R3001561	J
	WG750700	SAMP	2-Butanone (MEK)	R3001561	J
	WG750700	SAMP	1,2,4-Trimethylbenzene	R3001561	J
	WG750700	SAMP	o-Xylene	R3001561	J
	WG750700	SAMP	1,3,5-Trimethylbenzene	R3001561	J
	WG750667	SAMP	Cobalt	R3002511	J
	WG750667	SAMP	Copper	R3002511	J
	WG750667	SAMP	Nickel	R3002511	J
	WG750667	SAMP	Zinc	R3002511	J
L729564-05	WG750752	SAMP	Mercury	R3000787	J
	WG750700	SAMP	Acetone	R3001561	J
	WG750700	SAMP	Ethylbenzene	R3001561	J
	WG750700	SAMP	Toluene	R3001561	J
	WG750700	SAMP	1,2,4-Trimethylbenzene	R3001561	J
	WG750700	SAMP	o-Xylene	R3001561	J
	WG750700	SAMP	m&p-Xylene	R3001561	J
	WG750667	SAMP	Aluminum	R3002511	O1V
	WG750667	SAMP	Antimony	R3002511	O1J6
	WG750667	SAMP	Barium	R3002511	O1J5
	WG750667	SAMP	Beryllium	R3002511	J
	WG750667	SAMP	Cobalt	R3002511	J
	WG750667	SAMP	Copper	R3002511	J
	WG750667	SAMP	Manganese	R3002511	O1J6J3
	WG750667	SAMP	Nickel	R3002511	J

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.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
O1	(ESC) The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

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
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Est. 1970

Quality Control Summary
SDG: L729564

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

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750982**
Analysis Date:	10/28/2014 7:12:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729564-01, -02		

Workgroup: **WG750982**
Description: **Total Solids by Method 2540 G-2011 (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-01 1x	10/23/2014	10/27/2014	10/28/2014
L729564-02 1x	10/23/2014	10/27/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750983**
Analysis Date:	10/28/2014 7:29:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729564-04, -05		

Workgroup: **WG750983**
Description: **Total Solids by Method 2540 G-2011 (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-04 1x	10/23/2014	10/27/2014	10/28/2014
L729564-05 1x	10/23/2014	10/27/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750982**
Analysis Date:	10/28/2014 7:12:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729564-01, -02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
LOGBAL3	LCS WG750982	LCS WG750982		10/28/2014	7:10 AM
LOGBAL3	Blank WG750982	Blank WG750982		10/28/2014	7:10 AM
LOGBAL3	DUP WG750982	DUP WG750982		10/28/2014	7:11 AM
LOGBAL3	TU904-SB05-NS01	L729564-01		10/28/2014	7:12 AM
LOGBAL3	TU904-SB05-NS02	L729564-02		10/28/2014	7:12 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750983**
Analysis Date:	10/28/2014 7:29:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729564-04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
LOGBAL3	LCS WG750983	LCS WG750983		10/28/2014	7:29 AM
LOGBAL3	DUP WG750983	DUP WG750983		10/28/2014	7:29 AM
LOGBAL3	Blank WG750983	Blank WG750983		10/28/2014	7:29 AM
LOGBAL3	TU904-SB08-NS01	L729564-04		10/28/2014	7:29 AM
LOGBAL3	TU904-SB08-NS02	L729564-05		10/28/2014	7:29 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750982**
Analysis Date:	10/28/2014 7:12:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729564-01, -02		

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	50.008	100	85 - 115	

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750983**
Analysis Date:	10/28/2014 7:29:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729564-04, -05		

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	50.005	100	85 - 115	

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750982**
Analysis Date:	10/28/2014 7:12:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729564-01, -02		

Sample Duplicate

L729552-03

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
Total Solids	1	81.015	83.474	2.99	5	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750983**
Analysis Date:	10/28/2014 7:29:00 AM	Analyst:	607
Instrument ID:	LOGBAL3		
Sample Numbers:	L729564-04, -05		

Sample Duplicate

L729564-05

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
Total Solids	1	84.241	83.936	0.36	5	

Parameters in bold text are reported in this SDG

Raw Data

Laboratory Bench Sheet

Total Solids / Moisture (Soils)

10/28/2014 7:13 AM

Workgroup: WG750982

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

Method: SM-2540 G-2011

Prep Analyst: 607

Prep Date/Time: 10/27/14 1052

Instrument: LOGBAL3

Capture Analyst: 475

Analysis Date: 10/28/14 0710

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	10/27/2014	G1	1.0277	1.0277	1.0269	1.0269	0.0000	0.0008		99.9992					
	LCS	QC	10/27/2014	G2	1.0297	11.0298	6.0305	6.0305	0.0000	50.0075		49.9925		100.01		99.99	
IL	L729552-03	SS	10/22/2014	G3	1.0334	11.8569	9.8021	9.8021	0.0000	81.0154		18.9846	J3				
IL	L729552-03DUP	SS	10/22/2014	G4	1.0337	12.0235	10.2073	10.2073	0.0000	83.4738		16.5262	J3		2.99		13.85
IL	L729552-04	SS	10/22/2014	G5	1.0318	9.2187	7.3752	7.3752	0.0000	77.4823		22.5177					
NM	L729563-01	SS	10/22/2014	G6	1.0342	12.0466	8.4889	8.4889	0.0000	67.6937		32.3063					
NM	L729563-02	SS	10/22/2014	G7	1.0331	11.6558	8.3671	8.3671	0.0000	69.0408		30.9592					
NM	L729563-04	SS	10/22/2014	G8	1.0428	11.7031	9.9282	9.9282	0.0000	83.3504		16.6496					
NM	L729563-05	SS	10/22/2014	G9	1.0437	14.0723	11.8053	11.8053	0.0000	82.5998		17.4002					
NM	L729563-06	SS	10/22/2014	G10	1.0413	13.0414	10.8365	10.8365	0.0000	81.6260		18.3740					
NM	L729564-01	SS	10/23/2014	G11	1.0318	11.1116	9.2902	9.2902	0.0000	81.9302		18.0698					
NM	L729564-02	SS	10/23/2014	G12	1.0249	12.8100	10.1107	10.1107	0.0000	77.0957		22.9043					
TX	L729850-09	SS	10/24/2014	G13	1.0210	12.8166	10.5162	10.5162	0.0000	80.4978		19.5022					

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

Laboratory Bench Sheet

Total Solids / Moisture (Soils)

10/28/2014 7:13 AM

Workgroup:

WG750982

Seq.	Oven Type	Date/Time In	Temp In	Date/Time Out	Temp Out	Samples
1	Oven-12hr	10/27/2014 11:01 AM	104	10/28/2014 7:10 AM	104	BLANK, LCS, L729552-03, L729552-03DUP, L729552-04, L729563-01, L729563-02, L729563-04, L729563-05, L729563-06, L729564-01, L729564-02, L729850-09

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

Laboratory Bench Sheet

Total Solids / Moisture (Soils)

10/28/2014 7:31 AM

Workgroup:

WG750983

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

Method: SM-2540 G-2011

Prep Analyst: 607

Prep Date/Time: 10/27/14 1318

Instrument: LOGBAL3

Capture Analyst: 475

Analysis Date: 10/28/14 0648

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	10/27/2014	K1	1.0408	1.0408	1.0400	1.0400	0.0000	0.0008		99.9992					
	LCS	QC	10/27/2014	K2	1.0492	11.0499	6.0500	6.0500	0.0000	50.0045		49.9955		100.01		99.99	
NM	L729564-05	SS	10/23/2014	K4	1.0430	9.8809	8.4881	8.4881	0.0000	84.2406		15.7594					
NM	L729564-05DUP	SS	10/23/2014	K5	1.0342	11.7930	10.0647	10.0647	0.0000	83.9359		16.0641			0.36		1.91
NM	L729564-04	SS	10/23/2014	K3	1.0503	8.3915	7.7136	7.7136	0.0000	90.7658		9.2342					
NM	L729566-01	SS	10/21/2014	K6	1.0357	11.4929	9.5586	9.5586	0.0000	81.5027		18.4973					
NM	L729566-02	SS	10/22/2014	K7	1.0358	9.5927	8.1297	8.1297	0.0000	82.9027		17.0973					
NM	L729566-03	SS	10/21/2014	K8	1.0340	12.0199	9.8026	9.8026	0.0000	79.8169		20.1831					
NM	L729566-05	SS	10/22/2014	K9	1.0334	9.2348	7.8855	7.8855	0.0000	83.5479		16.4521					
NM	L729566-06	SS	10/22/2014	K10	1.0355	12.9718	10.6224	10.6224	0.0000	80.3172		19.6828					
NM	L729568-01	SS	10/22/2014	K11	1.0371	13.4175	10.7705	10.7705	0.0000	78.6194		21.3806					
NM	L729568-02	SS	10/21/2014	K12	1.0369	13.6471	11.1579	11.1579	0.0000	80.2604		19.7396					
NM	L729568-04	SS	10/21/2014	K13	1.0340	9.6969	7.7270	7.7270	0.0000	77.2605		22.7395					

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

Laboratory Bench Sheet

Total Solids / Moisture (Soils)

10/28/2014 7:31 AM

Workgroup:

WG750983

Seq.	Oven Type	Date/Time In	Temp In	Date/Time Out	Temp Out	Samples
1	Oven-12hr	10/27/2014 1:24 PM	104	10/28/2014 6:48 AM	104	BLANK, LCS, L729564-04, L729564-05, L729564-05DUP, L729566-01, L729566-02, L729566-03, L729566-05, L729566-06, L729568-01, L729568-02, L729568-04

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: L729564

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

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750769**
Analysis Date:	10/27/2014 3:36:00 PM	Analyst:	661
Instrument ID:	ORION VS-1	Prep Date:	10/25/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG750769**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-01 1x	10/23/2014	10/27/2014	10/27/2014
L729564-02 1x	10/23/2014	10/27/2014	10/27/2014
L729564-04 1x	10/23/2014	10/27/2014	10/27/2014
L729564-05 1x	10/23/2014	10/27/2014	10/27/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750769**
Analysis Date:	10/27/2014 3:36:00 PM	Analyst:	661
Instrument ID:	ORION VS-1	Prep Date:	10/25/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ORION VS-1	LCS WG750769	LCS WG750769		10/27/2014	3:36 PM
ORION VS-1	LCSD WG750769	LCSD WG750769		10/27/2014	3:36 PM
ORION VS-1	DUP WG750769	DUP WG750769		10/27/2014	3:36 PM
ORION VS-1	DUP WG750769	DUP WG750769		10/27/2014	3:36 PM
ORION VS-1	TU904-SB05-NS01	L729564-01		10/27/2014	3:36 PM
ORION VS-1	TU904-SB05-NS02	L729564-02		10/27/2014	3:36 PM
ORION VS-1	TU904-SB08-NS01	L729564-04		10/27/2014	3:36 PM
ORION VS-1	TU904-SB08-NS02	L729564-05		10/27/2014	3:36 PM

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750769**
Analysis Date:	10/27/2014 3:36:00 PM	Analyst:	661
Instrument ID:	ORION VS-1	Prep Date:	10/25/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
pH	1	6.33	6.4	101	98.3 - 101.7	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
pH	1	6.33	6.41	101	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	6.4	101	6.41	101	98.3 - 101.7		0.16	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750769**
Analysis Date:	10/27/2014 3:36:00 PM	Analyst:	661
Instrument ID:	ORION VS-1	Prep Date:	10/25/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Sample Duplicate

L729563-01

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
pH	1	6.1	6.16	0.98	1	

Sample Duplicate

L729568-05

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
pH	1	6.8	6.84	0.59	1	

Parameters in bold text are reported in this SDG

Raw Data

Date :10/27/2

Time : 3:23:33PM

Environmental Science Corporation

LABORATORY BENCH SHEET

REVIEWED BY: KC 661 10-27-14

Page 1 of 3

Date Created : 10/25/14

By Analyst : 661

Room Temp 21.5

Test Abbrev. **PH**

Testname pH

Date Analyzed : 10-27-14

Time Analyzed : 1536

WORKGROUP **WG750769**

PROBE #1

Instrument : ORION VS-1

Calib. Date : 10/27/2014

ACCTNUM	SAMPLENUM Container ID	MATRIX EPA Method	TEMP in C	VALUE (pH Units)	REPORT
URSTAZ 10/22/14 1:30PM	L729563-01 17559420	SS 9045D	21.1	~~5.9~~ 6.14	6.1
URSTAZ 10/22/14 4:10PM	L729563-02 17559430	SS 9045D	21.0	6.28	6.3
URSTAZ 10/22/14 5:00PM	L729563-04 17559442	SS 9045D	20.9	6.33	6.3
URSTAZ 10/22/14 4:50PM	L729563-05 17559452	SS 9045D	20.8	6.44	6.4
URSTAZ 10/22/14 6:30PM	L729563-06 17559462	SS 9045D	20.8	6.43	6.4
URSTAZ 10/23/14 9:00AM	L729564-01 17559483	SS 9045D	20.8	6.54	6.5
URSTAZ 10/23/14 9:35AM	L729564-02 17559493	SS 9045D	20.8	6.55	6.6
URSTAZ 10/23/14 8:50AM	L729564-04 17559505	SS 9045D	20.7	6.64	6.6
URSTAZ 10/23/14 9:50AM	L729564-05 17559515	SS 9045D	20.7	6.66	6.7
URSTAZ 10/21/14 5:45PM	L729566-01 17559547	SS 9045D	20.5	6.71	6.7

Quality Control : Reviewed by _____ Date _____

Slope 96.8%				
Buffer Check TV: 7.00	OBS: 6.99 TEMP: 21.0	OBS: 7.04 TEMP: 21.0	OBS: 7.06 TEMP: 21.2	
Duplicate 563-01	Δ= .02	$\bar{X}$= 6.15	0.325 %RPD	
Calibration-Buffer 4	169.0 mV@ 20.5	14H28643	EXP: 01/31/16	LCS
Calibration-Buffer 7	-6.5 mV @ 21.1	14D19224	EXP: 01/31/16	14H19179
Calibration-Buffer 10	-177.9 mV@ 21.6	14H28644	EXP: 10/31/15	EXP: 05/31/16
Cal. Buffer 13	-340.5 mV @ 20.7	14G10890	EXP: 05/31/15	
Cal. Buffer 1	320.8 mV @ 20.9	14H28645	EXP: 01/31/16	

Date Created : 10/25/14
By Analyst : 661
Room Temp 21.5

Test Abbrev. **PH**
Testname pH
Date Analyzed : 10-27-14
Time Analyzed : 1536

WORKGROUP **WG750769**
PROBE #1
Instrument : ORION VS-1
Calib. Date : 10/27/2014

ACCTNUM	SAMPLENUM Container ID	MATRIX EPA Method	TEMP in C	VALUE (pH Units)	REPORT
URSTAZ 10/22/14 10:35A	L729566-02 17559558	SS 9045D	20.6	6.72	6.7
URSTAZ 10/21/14 5:45PM	L729566-03 17559648	SS 9045D	20.4	6.78	6.8
URSTAZ 10/22/14 12:30PM	L729566-05 17559659	SS 9045D	20.4	6.78	6.8
URSTAZ 10/22/14 3:55PM	L729566-06 17559669	SS 9045D	20.6	6.79	6.8
URSTAZ 10/22/14 12:45PM	L729568-01 17559682	SS 9045D	20.4	6.82	6.8
URSTAZ 10/21/14 4:00PM	L729568-02 17559734	SS 9045D	20.6	6.83	6.8
URSTAZ 10/21/14 2:30PM	L729568-04 17559756	SS 9045D	20.5	6.83	6.8
RSTAZ 10/21/14 2:35PM	L729568-05 17559766	SS 9045D	20.3	6.84	6.8
EXCELCTX 10/23/14 11:00A	L729638-01	SS 9045D	21.1	7.02	7.0
NONE DUP 563-01	WG750769-1	SS 9045D	21.2	6.16	6.16
NONE DUP 568-05	WG750769-2	SS 9045D	20.3	6.84	6.84

Quality Control : Reviewed by _____ Date _____

Slope 96.8%				
Buffer Check TV: 7.00	OBS: TEMP:	OBS: TEMP:	OBS: TEMP:	
Duplicate 568-05	Δ= 0	$\bar{X}$= 6.84	0 %RPD	
Calibration-Buffer 4	169.0 mV@ 20.5	14H28643	EXP: 01/31/16	LCS
Calibration-Buffer 7	-6.5 mV @ 21.1	14D19224	EXP: 01/31/16	14H19179
Calibration-Buffer 10	-177.9 mV@ 21.6	14H28644	EXP: 10/31/15	EXP: 05/31/16
Cal. Buffer 13	-340.5 mV @ 20.7	14G10890	EXP: 05/31/15	
Cal. Buffer 1	320.8 mV @ 20.9	14H28645	EXP: 01/31/16	

Date Created : 10/25/14

By Analyst : 661

Room Temp 21.5

Test Abbrev. **PH**

Testname pH

Date Analyzed : 10-27-14

Time Analyzed : 1536

WORKGROUP **WG750769**

PROBE #1

Instrument : ORION VS-1

Calib. Date : 10/27/2014

ACCTNUM	SAMPLENUM Container ID	MATRIX EPA Method	TEMP in C	VALUE (pH Units)	REPORT
NONE LCS	WG750769-3	SS 9045D	21.7	6.40	6.40
NONE LCSD	WG750769-4	SS 9045D	21.7	6.41	6.41

LCS-TV = 6.33

OV= 6.40

Range= 6.23-6.43

LCS/D: Delta = <0.1

Quality Control : Reviewed by _____ Date _____

Slope 96.8%				
Buffer Check TV: 7.00	OBS: TEMP:	OBS: TEMP:	OBS: TEMP:	
Duplicate	Δ=	$\bar{X}$=	%RPD	
Calibration-Buffer 4	169.0 mV@ 20.5	14H28643	EXP: 01/31/16	LCS
Calibration-Buffer 7	-6.5 mV @ 21.1	14D19224	EXP: 01/31/16	14H19179
Calibration-Buffer 10	-177.9 mV@ 21.6	14H28644	EXP: 10/31/15	EXP: 05/31/16
Cal. Buffer 13	-340.5 mV @ 20.7	14G10890	EXP: 05/31/15	
Cal. Buffer 1	320.8 mV @ 20.9	14H28645	EXP: 01/31/16	

pH PREP LOG
Environmental Science Corp.

WORKGROUP : WG750769

START 1435 STOP 1535

DATE: 10/27/2014

ANALYST SZM

CENTRIFUGE TUBES LOT# E13090K3 VENDOR: GBO

Sample #	Matrix	SAMPLE WT	WATER WT
DUP 563-01		21.51	21.61
L729563-01	SS	21.25	21.27
L729563-02	SS	22.17	22.25
L729563-04	SS	21.85	~~22~~ 21.95
L729563-05	SS	22.05	22.13
L729563-06	SS	21.01	21.10
L729564-01	SS	20.62	20.63
L729564-02	SS	20.19	20.19
L729564-04	SS	20.92	20.99
L729564-05	SS	20.38	20.42
L729566-01	SS	21.50	21.60
L729566-02	SS	20.65	20.60
L729566-03	SS	20.70	20.80
L729566-05	SS	22.98	22.93
L729566-06	SS	21.28	21.38
L729568-01	SS	22.10	22.19
L729568-02	SS	20.92	21.01
L729568-04	SS	20.02	20.06
L729568-05	SS	21.25	21.35
L729638-01	SS	22.42	22.46
DUP 568-05		21.38	21.38

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-OCT-14 03:43 PM

Monday

Work Group: WG750769

Department: 19 WetChem Prep

Operator: 661

Created: 25-OCT-14

Due: 10/31/14 R5

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	PR	Cont. Type
D L729563-01	17559420	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729563-02	17559430	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729563-04	17559442	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729563-05	17559452	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729563-06	17559462	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729564-01	17559483	URS Corporation - Tucson AZ - 10	PH	SS	WG	23-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729564-02	17559493	URS Corporation - Tucson AZ - 10	PH	SS	WG	23-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729564-04	17559505	URS Corporation - Tucson AZ - 10	PH	SS	WG	23-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729564-05	17559515	URS Corporation - Tucson AZ - 10	PH	SS	WG	23-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729566-01	17559547	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729566-02	17559558	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729566-03	17559648	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729566-05	17559659	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729566-06	17559669	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729568-01	17559682	URS Corporation - Tucson AZ - 10	PH	SS	WG	22-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729568-02	17559734	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729568-04	17559756	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	25-OCT-14	R5	4ozClr-NoPres
D L729568-05	17559766	URS Corporation - Tucson AZ - 10	PH	SS	WG	21-OCT-14	25-OCT-14	R5	4ozClr-NoPres
L729638-01		Excel Industrial Group, LLC	PH	SS	WG	23-OCT-14	25-OCT-14	R5	
~~L729764-01~~	~~17562892~~	~~Ritchie Exploration, Inc.- Wichita, K~~	~~PH~~	SS	WG	23-OCT-14	26-OCT-14	R5	4ozClr-NoPres

Comments:

L729563-01	EDD/QC4/DOD
L729563-02	EDD/QC4/DOD
729563-04	EDD/QC4/DOD
L729563-05	EDD/QC4/DOD

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-OCT-14 03:43 PM

2 2

Work Group: WG750769 **Created:** 25-OCT-14

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

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	PR Cont. Type
L729563-06	EDD/QC4/DOD							
L729564-01	EDD/QC4/DOD							
L729564-02	EDD/QC4/DOD							
L729564-04	EDD/QC4/DOD							
L729564-05	EDD/QC4/DOD							
L729566-01	EDD/QC4/DOD							
L729566-02	EDD/QC4/DOD							
L729566-03	EDD/QC4/DOD							
L729566-05	EDD/QC4/DOD							
L729566-06	EDD/QC4/DOD							
L729568-01	EDD/QC4/DOD							
L729568-02	MS/MSD this sample. EDD/QC4/DOD							
L729568-04	EDD/QC4/DOD							
L729568-05	EDD/QC4/DOD							
729638-01	Run bottom black layer only							

Mercury by Method 7471

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

Quality Control Summary
SDG: L729564

Mercury by Method 7471
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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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Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750752**
Analysis Date:	10/28/2014 4:31:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	10/25/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG750752**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-01 1x	10/23/2014	10/28/2014	10/28/2014
L729564-02 1x	10/23/2014	10/28/2014	10/28/2014
L729564-04 1x	10/23/2014	10/28/2014	10/28/2014
L729564-05 1x	10/23/2014	10/28/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750752**
Analysis Date:	10/28/2014 4:31:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	10/25/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA3	Blank WG750752	Blank WG750752	11	10/28/2014	4:00 PM
CVAA3	LCS WG750752	LCS WG750752	12	10/28/2014	4:03 PM
CVAA3	LCSD WG750752	LCSD WG750752	13	10/28/2014	4:05 PM
CVAA3	MS WG750752	MS WG750752	15	10/28/2014	4:11 PM
CVAA3	MSD WG750752	MSD WG750752	16	10/28/2014	4:13 PM
CVAA3	DUP WG750752	DUP WG750752	17	10/28/2014	4:16 PM
CVAA3	TU904-SB05-NS01	L729564-01	23	10/28/2014	4:31 PM
CVAA3	TU904-SB05-NS02	L729564-02	24	10/28/2014	4:34 PM
CVAA3	TU904-SB08-NS01	L729564-04	25	10/28/2014	4:36 PM
CVAA3	TU904-SB08-NS02	L729564-05	26	10/28/2014	4:39 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750752**
Analysis Date:	10/28/2014 4:31:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	10/25/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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	11.573	93	71.6 - 128	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	50	12.4	13.053	105	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	11.573	93	13.053	105	71.6 - 128		12	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750752**
Analysis Date:	10/28/2014 4:31:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	10/25/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Serial Dilution

L729568-02

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury	5	0.0032	<0.014	209	10	

Matrix Spike / Matrix Spike Duplicate

L729568-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury	1	0.623	0.0040	0.5700	91	0.5535	88	80 - 120		3	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: CVAA3

Standard Type: ICVLL
Analysis Date: 10/28/2014 3:52 PM
Analysis Time: 1552
Data File: 102814CVAA3 SB

Analyte	Conc.			
Mercury	0.0004	0.0004	98 %	70-130

Standard Type: ICV
Analysis Date: 10/28/2014 3:55 PM
Analysis Time: 1555
Data File: 102814CVAA3 SB

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0028	0.003	94 %	90-110

Standard Type: CCV
Analysis Date: 10/28/2014 4:41 PM
Analysis Time: 1641
Data File: 102814CVAA3 SB

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

Standard Type: CCVLL
Analysis Date: 10/28/2014 9:02 PM
Analysis Time: 2102
Data File: 102814CVAA3 SB

Analyte	Conc.			
Mercury	0.0004	0.0004	100 %	70-130

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: CVAA3

Standard Type: ICB
Analysis Date: 10/28/2014 3:58 PM
Analysis Time: 1558
Data File: 102814CVAA3 SB

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102814CVAA3

Standard Type: CCB
Analysis Date: 10/28/2014 4:44 PM
Analysis Time: 1644
Data File: 102814CVAA3 SB

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102814CVAA3

*** - calibrated by linear regression*

Raw Data

Laboratory Bench Sheet

Printed:10/28/2014 14:28

Workgroup:	WG750752
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	628
Prep Date:	102814

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:HGA

Temp On:	92 deg C
Temp Off:	93 deg C
Time On:	1300
Time Off:	1330

QC Standards

ICV:	14J09761
ICV Low Level:	14J23419
CCV:	14J09762
CCV Low Level:	14J23419
LCS:	14J28700
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J23501

Comments:

Worksheet ID:368143

Laboratory Bench Sheet

Printed:10/28/2014 14:28

Workgroup:	WG751137
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	657
Prep Date:	102814

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:	93 deg C
Temp Off:	94 deg C
Time On:	1300
Time Off:	1330

QC Standards

ICV:	14J09761
ICV Low Level:	14J23419
CCV:	14J09762
CCV Low Level:	14J23419
LCS:	14J28700
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J23501

Comments:

Worksheet ID:368143

Laboratory Bench Sheet

Printed:10/28/2014 14:28

Workgroup:	WG751138
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	657
Prep Date:	102814

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:	93 deg C
Temp Off:	94 deg C
Time On:	1300
Time Off:	1330

QC Standards

ICV:	14J09761
ICV Low Level:	14J23419
CCV:	14J09762
CCV Low Level:	14J23419
LCS:	14J28700
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J23501

Comments:

Worksheet ID:368143

Laboratory Bench Sheet

Printed:10/28/2014 14:28

Workgroup:	WG751134
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	657
Prep Date:	102814

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:	93 deg C
Temp Off:	95 deg C
Time On:	1400
Time Off:	1430

QC Standards

ICV:	14J09761
ICV Low Level:	14J23419
CCV:	14J09762
CCV Low Level:	14J23419
LCS:	14J28700
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J23501

Comments:

Worksheet ID:368143

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
BLANK WG750752	S5	0.3100	27.5			WG750752	g	Brown	Sand
LCS WG750752	S5	0.3000	27.5	1	50	WG750752	g	Brown	Dirt
LCSD WG750752	S5	0.3000	27.5	1	50	WG750752	g	Brown	Dirt
L729568-02 WG750752	SS	0.3080	27.5			WG750752	g	Brown	Dirt
MS WG750752 L729568-02	S5	0.2970	27.5			WG750752	g	Brown	Dirt
MSD WG750752 L729568-02	S5	0.3040	27.5			WG750752	g	Brown	Dirt
SD WG750752 L729568-02	S5	0.3080	27.5	2	10	WG750752	g	Brown	Dirt
L729563-01 WG750752	SS	0.2900	27.5			WG750752	g	Brown	Sand
L729563-02 WG750752	SS	0.3100	27.5			WG750752	g	Brown	Sand
L729563-04 WG750752	SS	0.3190	27.5			WG750752	g	Brown	Sand
L729563-05 WG750752	SS	0.2950	27.5			WG750752	g	Brown	Sand
L729563-06 WG750752	SS	0.3100	27.5			WG750752	g	Multi-colored	Sand
L729564-01 WG750752	SS	0.3040	27.5			WG750752	g	Brown	Sand
L729564-02 WG750752	SS	0.3160	27.5			WG750752	g	Brown	Sand
L729564-04 WG750752	SS	0.3000	27.5			WG750752	g	Brown	Dirt

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729564-05 WG750752	SS	0.3180	27.5			WG750752	g	Brown	Mud
L729566-01 WG750752	SS	0.2880	27.5			WG750752	g	Brown	Dirt
L729566-02 WG750752	SS	0.2880	27.5			WG750752	g	Brown	Dirt
L729566-03 WG750752	SS	0.3100	27.5			WG750752	g	Brown	Dirt
L729566-05 WG750752	SS	0.3270	27.5			WG750752	g	Brown	Sand
L729566-06 WG750752	SS	0.3220	27.5			WG750752	g	Brown	Dirt
L729568-01 WG750752	SS	0.3040	27.5			WG750752	g	Brown	Dirt
L729568-04 WG750752	SS	0.2860	27.5			WG750752	g	Brown	Sand
L729568-05 WG750752	SS	0.2940	27.5			WG750752	g	Brown	Mud
L729763-01 WG750752	SS	0.2940	27.5			WG750752	g	Multi-colored	Sand
L729763-05 WG750752	SS	0.3060	27.5			WG750752	g	Multi-colored	Sand
INSTBLK WG750752	S5		27.5			WG750752	g		
BLANK WG751137	S5	0.3040	27.5			WG751137	g	Brown	Sand
LCS WG751137	S5	0.3000	27.5	1	50	WG751137	g	Brown	Dirt
LCSD WG751137	S5	0.3000	27.5	1	50	WG751137	g	Brown	Dirt

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729671-19 WG751137	SS	0.2980	27.5			WG751137	g	Brown	Clay
MS WG751137 L729671-19	S5	0.2940	27.5			WG751137	g	Brown	Clay
MSD WG751137 L729671-19	S5	0.2950	27.5			WG751137	g	Brown	Clay
SD WG751137 L729671-19	S5	0.2980	27.5	2	10	WG751137	g	Brown	Clay
L729671-20 WG751137	SS	0.3320	27.5			WG751137	g	Brown	Clay
L729671-21 WG751137	SS	0.3280	27.5			WG751137	g	Brown	Clay
L729671-25 WG751137	SS	0.2760	27.5			WG751137	g	Multi-colored	Clay
L729671-26 WG751137	SS	0.2960	27.5			WG751137	g	Brown	Clay
L729671-27 WG751137	SS	0.2820	27.5			WG751137	g	Brown	Clay
L729671-31 WG751137	SS	0.3210	27.5			WG751137	g	Brown	Clay
L729671-32 WG751137	SS	0.3310	27.5			WG751137	g	Brown	Clay
L729671-33 WG751137	SS	0.2820	27.5			WG751137	g	Brown	Dirt
L729690-01 WG751137	SS	0.3020	27.5			WG751137	g	Multi-colored	Clay
L729690-02 WG751137	SS	0.2890	27.5			WG751137	g	Brown	Dirt
L729690-03 WG751137	SS	0.2820	27.5			WG751137	g	Brown	Clay

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729690-04 WG751137	SS	0.2950	27.5			WG751137	g	Brown	Clay
L729690-05 WG751137	SS	0.2930	27.5			WG751137	g	Brown	Dirt
L729690-06 WG751137	SS	0.3270	27.5			WG751137	g	Brown	Clay
L729690-07 WG751137	SS	0.3030	27.5			WG751137	g	Brown	Mud
L729690-08 WG751137	SS	0.3220	27.5			WG751137	g	Brown	Clay
L729690-09 WG751137	SS	0.3040	27.5			WG751137	g	Brown	Dirt
L729690-10 WG751137	SS	0.3080	27.5			WG751137	g	Brown	Clay
INSTBLK WG751137	S5		27.5			WG751137	g		
BLANK WG751138	S5	0.3040	27.5			WG751138	g	Brown	Sand
LCS WG751138	S5	0.3000	27.5	1	50	WG751138	g	Brown	Dirt
LCSD WG751138	S5	0.3000	27.5	1	50	WG751138	g	Brown	Dirt
L729753-07 WG751138	SS	0.3020	27.5			WG751138	g	Brown	Mud
MS WG751138 L729753-07	S5	0.2950	27.5			WG751138	g	Brown	Mud
MSD WG751138 L729753-07	S5	0.3060	27.5			WG751138	g	Brown	Mud
SD WG751138 L729753-07	S5	0.3020	27.5	2	10	WG751138	g	Brown	Mud

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729755-01 WG751138	SS	0.3100	27.5			WG751138	g	Brown	Dirt
L729768-01 WG751138	SS	0.3180	27.5			WG751138	g	Brown	Clay
L729772-01 WG751138	SS	0.3100	27.5			WG751138	g	Brown	Dirt
L729772-02 WG751138	SS	0.3030	27.5			WG751138	g	Brown	Dirt
L729772-03 WG751138	SS	0.3100	27.5			WG751138	g	Brown	Dirt
L729772-04 WG751138	SS	0.2780	27.5			WG751138	g	Brown	Dirt
L729772-05 WG751138	SS	0.2900	27.5			WG751138	g	Brown	Dirt
L729772-06 WG751138	SS	0.2960	27.5			WG751138	g	Multi-colored	Dirt
L729772-07 WG751138	SS	0.2860	27.5			WG751138	g	Brown	Dirt
L729772-08 WG751138	SS	0.3150	27.5			WG751138	g	Brown	Dirt
L729772-09 WG751138	SS	0.2980	27.5			WG751138	g	Brown	Dirt
L729772-10 WG751138	SS	0.3010	27.5			WG751138	g	Brown	Dirt
L729772-11 WG751138	SS	0.2850	27.5			WG751138	g	Brown	Dirt
L729772-12 WG751138	SS	0.3250	27.5			WG751138	g	Brown	Dirt
L729772-13 WG751138	SS	0.3060	27.5			WG751138	g	Brown	Dirt

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729772-14 WG751138	SS	0.2950	27.5			WG751138	g	Brown	Dirt
L729781-01 WG751138	SS	0.3330	27.5			WG751138	g	Brown	Clay
L729781-03 WG751138	SS	0.3210	27.5			WG751138	g	Multi-colored	Clay
L729781-05 WG751138	SS	0.3240	27.5			WG751138	g	Dark-brown	Clay
INSTBLK WG751138	S5		27.5			WG751138	g		
BLANK WG751134	S5	0.3090	27.5			WG751134	g	Brown	Sand
LCS WG751134	S5	0.3000	27.5	1	50	WG751134	g	Brown	Dirt
LCSD WG751134	S5	0.3000	27.5	1	50	WG751134	g	Brown	Dirt
L729650-01 WG751134	SS	0.3040	27.5			WG751134	g	Brown	Clay
MS WG751134 L729650-01	S5	0.3080	27.5			WG751134	g	Brown	Clay
MSD WG751134 L729650-01	S5	0.3000	27.5			WG751134	g	Brown	Clay
SD WG751134 L729650-01	S5	0.3040	27.5	2	10	WG751134	g	Brown	Clay
L729650-02 WG751134	SS	0.2990	27.5			WG751134	g	Brown	Clay
L729650-03 WG751134	SS	0.3260	27.5			WG751134	g	Multi-colored	Dirt
L729650-04 WG751134	SS	0.3060	27.5			WG751134	g	Brown	Clay

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729650-05 WG751134	SS	0.3250	27.5			WG751134	g	Brown	Clay
L729650-06 WG751134	SS	0.3170	27.5			WG751134	g	Brown	Clay
L729650-07 WG751134	SS	0.3270	27.5			WG751134	g	Brown	Clay
L729650-08 WG751134	SS	0.3210	27.5			WG751134	g	Brown	Clay
L729650-09 WG751134	SS	0.3190	27.5			WG751134	g	Brown	Clay
L729650-10 WG751134	SS	0.2800	27.5			WG751134	g	Brown	Clay
L729650-11 WG751134	SS	0.3050	27.5			WG751134	g	Brown	Clay
L729650-12 WG751134	SS	0.3230	27.5			WG751134	g	Brown	Clay
L729650-13 WG751134	SS	0.3350	27.5			WG751134	g	Brown	Dirt
L729650-14 WG751134	SS	0.2950	27.5			WG751134	g	Multi-colored	Dirt
L729650-15 WG751134	SS	0.3200	27.5			WG751134	g	Brown	Clay
L729650-16 WG751134	SS	0.3100	27.5			WG751134	g	Brown	Dirt
INSTBLK WG751134	S5		27.5			WG751134	g		

Comments:

Worksheet ID:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 02:33 PM

Work Group: WG751134

Department: 5 Metals

Operator: 628

Created: 28-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L729650-01	S17341145	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-02	S17341148	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-03	S17341151	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-04	S17341154	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-05	S17341157	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-06	S17341160	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-07	S17341198	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-08	S17341201	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-09	S17341163	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-10	S17341166	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-11	S17341169	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-12	S17341172	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-13	S17341175	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-14	S17341178	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-15	S17341181	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres
L729650-16	S17341184	Littlejohn Eng. Assoc - Nashville, TN	HG	SS	HERE	23-OCT-14	31-OCT-14	R5 2ozClr-NoPres

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 02:32 PM

Work Group: WG751137

Department: 5 Metals

Operator: 628

Created: 28-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L729671-19		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729671-20		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729671-21		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729671-25		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729671-26		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729671-27		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729671-31		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729671-32		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729671-33		Tetra Tech EMI - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-01		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-02		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-03		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-04		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-05		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-06		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-07		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-08		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-09		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5
L729690-10		Professional Environmental Consul	HG	SS	HERE	23-OCT-14	31-OCT-14	R5

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 02:32 PM

Work Group: WG751138

Department: 5 Metals

Operator: 628

Created: 28-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729753-07	17562842	Terracon - Houston, TX	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729755-01	17562851	Western Technologies	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	Sleeve
L729768-01	17562946	Modern Geosciences - Colleyville, T	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729772-01	17562958	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-02	17562961	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-03	17562964	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-04	17562967	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-05	17562970	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-06	17562973	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-07	17562976	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-08	17562979	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-09	17562982	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-10	17562985	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-11	17562988	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-12	17562991	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-13	17562994	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729772-14	17562997	Weston Solutions - AZ	HG	SS	HERE	24-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729781-01	17563277	Next - Gen Solutions	HG	SS	HERE	24-OCT-14	31-OCT-14	NU	8ozClr-NoPres
L729781-03	17563282	Next - Gen Solutions	HG	SS	HERE	24-OCT-14	31-OCT-14	NU	8ozClr-NoPres
L729781-05	17563288	Next - Gen Solutions	HG	SS	HERE	24-OCT-14	31-OCT-14	NU	2ozClr-NoPres

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 02:31 PM

Work Group: WG750752

Department: 4 Metals Prep

Operator: 572

Created: 25-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729563-01	17559420	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729563-02	17559430	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729563-04	17559442	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729563-05	17559452	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729563-06	17559462	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729564-01	17559483	URS Corporation - Tucson AZ - 10	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729564-02	17559493	URS Corporation - Tucson AZ - 10	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729564-04	17559505	URS Corporation - Tucson AZ - 10	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729564-05	17559515	URS Corporation - Tucson AZ - 10	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729566-01	17559547	URS Corporation - Tucson AZ - 10	HG	SS	DONE	21-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729566-02	17559558	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729566-03	17559648	URS Corporation - Tucson AZ - 10	HG	SS	DONE	21-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729566-05	17559659	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729566-06	17559669	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729568-01	17559682	URS Corporation - Tucson AZ - 10	HG	SS	DONE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729568-02	17559734	URS Corporation - Tucson AZ - 10	HG	SS	DONE	21-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729568-04	17559756	URS Corporation - Tucson AZ - 10	HG	SS	DONE	21-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729568-05	17559766	URS Corporation - Tucson AZ - 10	HG	SS	DONE	21-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729763-01	17562880	Sundance Environmental Consultan	HG	SS	DONE	24-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729763-05	17562889	Sundance Environmental Consultan	HG	SS	DONE	24-OCT-14	31-OCT-14	R5	4ozClr-NoPres

Comments:

L729563-01	EDD/QC4/DOD
L729563-02	EDD/QC4/DOD
L729563-04	EDD/QC4/DOD
L729563-05	EDD/QC4/DOD

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 02:31 PM

2 2

Work Group: WG750752

Department: 4 Metals Prep

Operator: 572

Created: 25-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L729563-06	EDD/QC4/DOD							
L729564-01	EDD/QC4/DOD							
L729564-02	EDD/QC4/DOD							
L729564-04	EDD/QC4/DOD							
L729564-05	EDD/QC4/DOD							
L729566-01	EDD/QC4/DOD							
L729566-02	EDD/QC4/DOD							
L729566-03	EDD/QC4/DOD							
L729566-05	EDD/QC4/DOD							
L729566-06	EDD/QC4/DOD							
L729568-01	EDD/QC4/DOD							
L729568-02	MS/MSD this sample. EDD/QC4/DOD							
L729568-04	EDD/QC4/DOD							
L729568-05	EDD/QC4/DOD							

==========

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\102814CVAA3 SB.sif
Batch ID: 657
Results Data Set: 102814CVAA3 SB
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Method Loaded
Method Name: Hg Soil PPM-TEST **Method Last Saved: 10/25/2014 3:07:07 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: 10/28/2014 3:34:29 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	0.0001	0.0001	15:35:25	Yes
2		[0.00]	0.0001	0.0005	0.0001	15:36:02	Yes
3		[0.00]	0.0001	-0.0005	0.0001	15:36:38	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0000				
%RSD:		0.00	13.96				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14J23419 **Date Collected: 10/28/2014 3:37:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0027	0.0213	0.0028	15:37:59	Yes
2		[0.00020]	0.0025	0.0200	0.0026	15:38:35	Yes
3		[0.00020]	0.0025	0.0203	0.0026	15:39:12	Yes
Mean:		[0.00020]	0.0026				
SD:		0.00000	0.0001				
%RSD:		0.00000	4.53				

Standard number 1 applied. [0.00020]
Correlation Coef.: 1.000000 Slope: 12.87052 Intercept: -0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14J23419 **Date Collected: 10/28/2014 3:39:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0056	0.0449	0.0057	15:40:33	Yes
2		[0.00040]	0.0055	0.0439	0.0056	15:41:10	Yes

3	[0.00040]	0.0054	0.0434	0.0055	15:41:47	Yes
Mean:	[0.00040]	0.0055				
SD:	0.00000	0.0001				
%RSD:	0.00000	1.36				

Standard number 2 applied. [0.00040]
Correlation Coef.: 0.999341 Slope: 13.73446 Intercept: -0.00006

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14J23419 **Date Collected: 10/28/2014 3:42:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0138	0.1104	0.0139	15:43:09	Yes
2		[0.00100]	0.0136	0.1086	0.0136	15:43:46	Yes
3		[0.00100]	0.0135	0.1080	0.0136	15:44:22	Yes
Mean:		[0.00100]	0.0136				
SD:		0.00000	0.0001				
%RSD:		0.00000	0.93				

Standard number 3 applied. [0.00100]
Correlation Coef.: 0.999903 Slope: 13.66396 Intercept: -0.00005

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14J23419 **Date Collected: 10/28/2014 3:44:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0269	0.2167	0.0270	15:45:45	Yes
2		[0.00200]	0.0265	0.2128	0.0266	15:46:22	Yes
3		[0.00200]	0.0265	0.2128	0.0266	15:46:58	Yes
Mean:		[0.00200]	0.0266				
SD:		0.00000	0.0002				
%RSD:		0.00000	0.92				

Standard number 4 applied. [0.00200]
Correlation Coef.: 0.999898 Slope: 13.34202 Intercept: 0.00005

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14J09762 **Date Collected: 10/28/2014 3:47:23 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]	0.0713	0.5755	0.0714	15:48:20	Yes
2		[0.00500]	0.0704	0.5659	0.0705	15:48:56	Yes
3		[0.00500]	0.0699	0.5636	0.0700	15:49:32	Yes
Mean:		[0.00500]	0.0706				
SD:		0.00000	0.0007				
%RSD:		0.00000	1.03				

Standard number 5 applied. [0.00500]
Correlation Coef.: 0.999741 Slope: 14.09825 Intercept: -0.00040

==========

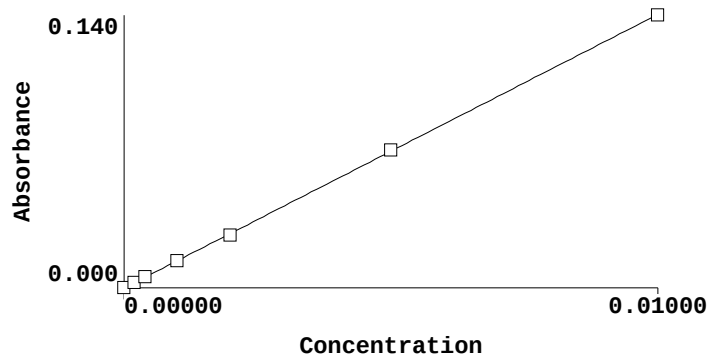
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14J09762 **Date Collected: 10/28/2014 3:49:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

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]	0.1423	1.1514	0.1424	15:50:52	Yes
2		[0.01000]	0.1392	1.1290	0.1393	15:51:28	Yes
3		[0.01000]	0.1378	1.1170	0.1379	15:52:05	Yes
Mean:		[0.01000]	0.1398				
SD:		0.00000	0.0023				
%RSD:		0.00000	1.64				

Standard number 6 applied. [0.01000]
Correlation Coef.: 0.999938 Slope: 14.02681 Intercept: -0.00032



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	0.00002	0.00	14.0
STD1 14J23419	0.0026	0.00020	0.00021	0.00	4.5
STD2 14J23419	0.0055	0.00040	0.00041	0.00	1.4
STD3 14J23419	0.0136	0.00100	0.00099	0.00	0.9
STD4 14J23419	0.0266	0.00200	0.00192	0.00	0.9
STD5 14J09762	0.0706	0.00500	0.00505	0.00	1.0
STD6 14J09762	0.1398	0.01000	0.00999	0.00	1.6

Correlation Coef.: 0.999938 Slope: 14.02681 Intercept: -0.00032

Analytical Sequence
Method: Hg Soil PPM-TEST

Seq.	Loc.	ID	Status
1	1	CALBLK	Applied
2	2	STD1 14J23419	Applied
3	3	STD2 14J23419	Applied
4	4	STD3 14J23419	Applied
5	5	STD4 14J23419	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\102814CVAA3 SB.sif
Batch ID: 657
Results Data Set: 102814CVAA3 SB
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J23419 **Date Collected: 10/28/2014 3:52:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00039	0.0051	0.0418	0.0052	15:53:57	Yes
2		0.00040	0.0052	0.0417	0.0053	15:54:34	Yes
3		0.00040	0.0052	0.0426	0.0053	15:55:10	Yes
Mean:		0.00039	0.0052				
SD:		0.00000	0.0000				
%RSD:		0.8042	0.85				

QC value within limits for Hg 253.7 Recovery = 98.30%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14J09761 **Date Collected: 10/28/2014 3:55:35 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		0.00285	0.0397	0.3221	0.0398	15:56:35	Yes
2		0.00282	0.0392	0.3180	0.0393	15:57:11	Yes
3		0.00281	0.0391	0.3162	0.0392	15:57:47	Yes
Mean:		0.00283	0.0393				
SD:		0.00002	0.0003				
%RSD:		0.7214	0.73				

QC value within limits for Hg 253.7 Recovery = 94.22%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 10/28/2014 3:58:13 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		0.00002	0.0000	0.0003	0.0001	15:59:10	Yes
2		0.00003	0.0000	-0.0001	0.0001	15:59:47	Yes
3		0.00002	-0.0000	-0.0002	0.0001	16:00:23	Yes
Mean:		0.00002	0.0000				
SD:		0.00000	0.0000				
%RSD:		9.823	245.64				

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

Sequence No.: 4
Sample ID: BLANK WG750752
Analyst: 657
Initial Sample Wt: 0.31 g
Dilution:
Autosampler Location: 9
Date Collected: 10/28/2014 4:00:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: BLANK WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00216	0.00002	0.0000	0.0001	0.0001	16:01:44	Yes
2	0.00262	0.00003	0.0001	0.0011	0.0002	16:02:21	Yes
3	0.00262	0.00003	0.0001	0.0013	0.0002	16:02:57	Yes
Mean:	0.00247	0.00003	0.0001				
SD:	0.00027	0.00000	0.0000				
%RSD:	10.85	10.85	60.23				

Sequence No.: 5
Sample ID: LCS WG750752
Analyst: 657
Initial Sample Wt: 0.3 g
Dilution: 50X
Autosampler Location: 10
Date Collected: 10/28/2014 4:03:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: LCS WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	12.15	0.00265	0.0369	0.2932	0.0370	16:04:19	Yes
2	11.36	0.00248	0.0345	0.2715	0.0346	16:04:56	Yes
3	11.21	0.00245	0.0340	0.2677	0.0341	16:05:32	Yes
Mean:	11.57	0.00253	0.0351				
SD:	0.5046	0.00011	0.0015				
%RSD:	4.360	4.360	4.40				

Sequence No.: 6
Sample ID: LCSD WG750752
Analyst: 657
Initial Sample Wt: 0.3 g
Dilution: 50X
Autosampler Location: 11
Date Collected: 10/28/2014 4:05:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: LCSD WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.50	0.00295	0.0410	0.3281	0.0411	16:06:54	Yes
2	12.84	0.00280	0.0390	0.3124	0.0391	16:07:30	Yes
3	12.81	0.00279	0.0389	0.3106	0.0390	16:08:06	Yes
Mean:	13.05	0.00285	0.0396				
SD:	0.3910	0.00009	0.0012				
%RSD:	2.995	2.995	3.02				

Sequence No.: 7
Sample ID: L729568-02 WG750752
Analyst: 657
Initial Sample Wt: 0.308 g
Dilution:
Autosampler Location: 12
Date Collected: 10/28/2014 4:08:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729568-02 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00338	0.00004	0.0002	0.0020	0.0003	16:09:29	Yes
2	0.00262	0.00003	0.0001	0.0009	0.0002	16:10:06	Yes
3	0.00355	0.00004	0.0002	0.0015	0.0003	16:10:42	Yes
Mean:	0.00318	0.00004	0.0002				
SD:	0.00050	0.00001	0.0001				
%RSD:	15.63	15.63	43.39				

Sequence No.: 8
Sample ID: MS WG750752 L729568-02
Analyst: 657
Initial Sample Wt: 0.297 g
Dilution:
Autosampler Location: 13
Date Collected: 10/28/2014 4:11:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: MS WG750752 L729568-02

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.4648	0.00502	0.0701	0.5658	0.0702	16:12:06	Yes
2	0.4562	0.00493	0.0688	0.5556	0.0689	16:12:42	Yes
3	0.4521	0.00488	0.0682	0.5508	0.0683	16:13:19	Yes
Mean:	0.4577	0.00494	0.0690				
SD:	0.00647	0.00007	0.0010				
%RSD:	1.413	1.413	1.42				

Sequence No.: 9
Sample ID: MSD WG750752 L729568-02
Analyst: 657
Initial Sample Wt: 0.304 g
Dilution:
Autosampler Location: 14
Date Collected: 10/28/2014 4:13:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: MSD WG750752 L729568-02

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.4485	0.00496	0.0692	0.5598	0.0693	16:14:40	Yes
2	0.4419	0.00489	0.0682	0.5510	0.0683	16:15:17	Yes
3	0.4430	0.00490	0.0684	0.5519	0.0685	16:15:53	Yes
Mean:	0.4445	0.00491	0.0686				
SD:	0.00354	0.00004	0.0005				
%RSD:	0.7964	0.7964	0.80				

Sequence No.: 10
Sample ID: SD WG750752 L729568-02
Analyst: 657
Initial Sample Wt: 0.308 g
Dilution: 5X
Autosampler Location: 15
Date Collected: 10/28/2014 4:16:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: SD WG750752 L729568-02

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01065	0.00002	0.0000	0.0006	0.0001	16:17:14	Yes
2	0.01028	0.00002	0.0000	0.0005	0.0001	16:17:50	Yes
3	0.00855	0.00002	-0.0001	-0.0005	0.0000	16:18:26	Yes
Mean:	0.00983	0.00002	-0.0000				
SD:	0.00112	0.00000	0.0000				
%RSD:	11.39	11.39	313.23				

Sequence No.: 11
Sample ID: L729563-01 WG750752
Analyst: 657
Initial Sample Wt: 0.29 g
Dilution:
Autosampler Location: 16
Date Collected: 10/28/2014 4:18:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729563-01 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00329	0.00003	0.0002	0.0018	0.0003	16:19:46	Yes
2	0.00315	0.00003	0.0001	0.0016	0.0002	16:20:23	Yes
3	0.00299	0.00003	0.0001	0.0012	0.0002	16:20:59	Yes
Mean:	0.00314	0.00003	0.0001				
SD:	0.00015	0.00000	0.0000				
%RSD:	4.857	4.857	15.57				

Sequence No.: 12 | **Autosampler Location: 17**
Sample ID: L729563-02 WG750752 | **Date Collected: 10/28/2014 4:21:23 PM**
Analyst: 657 | **Data Type: Original**
Initial Sample Wt: 0.31 g | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol: 27.5 mL**

Replicate Data: L729563-02 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00269	0.00003	0.0001	0.0008	0.0002	16:22:19	Yes
2	0.00202	0.00002	-0.0000	-0.0005	0.0001	16:22:56	Yes
3	0.00292	0.00003	0.0001	0.0013	0.0002	16:23:32	Yes
Mean:	0.00254	0.00003	0.0001				
SD:	0.00046	0.00001	0.0001				
%RSD:	18.28	18.28	89.53				

Sequence No.: 13 | **Autosampler Location: 18**
Sample ID: L729563-04 WG750752 | **Date Collected: 10/28/2014 4:23:56 PM**
Analyst: 657 | **Data Type: Original**
Initial Sample Wt: 0.319 g | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol: 27.5 mL**

Replicate Data: L729563-04 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00202	0.00002	0.0000	0.0002	0.0001	16:24:53	Yes
2	0.00158	0.00002	-0.0001	-0.0004	0.0000	16:25:30	Yes
3	0.00211	0.00002	0.0000	0.0002	0.0001	16:26:06	Yes
Mean:	0.00190	0.00002	-0.0000				
SD:	0.00028	0.00000	0.0000				
%RSD:	14.80	14.80	428.57				

Sequence No.: 14 | **Autosampler Location: 19**
Sample ID: L729563-05 WG750752 | **Date Collected: 10/28/2014 4:26:29 PM**
Analyst: 657 | **Data Type: Original**
Initial Sample Wt: 0.295 g | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol: 27.5 mL**

Replicate Data: L729563-05 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00250	0.00003	0.0001	0.0006	0.0002	16:27:27	Yes
2	0.00221	0.00002	0.0000	0.0002	0.0001	16:28:03	Yes
3	0.00301	0.00003	0.0001	0.0016	0.0002	16:28:40	Yes
Mean:	0.00257	0.00003	0.0001				
SD:	0.00041	0.00000	0.0001				
%RSD:	15.76	15.76	90.80				

Sequence No.: 15 | **Autosampler Location: 20**
Sample ID: L729563-06 WG750752 | **Date Collected: 10/28/2014 4:29:04 PM**
Analyst: 657 | **Data Type: Original**
Initial Sample Wt: 0.31 g | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol: 27.5 mL**

Replicate Data: L729563-06 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00387	0.00004	0.0003	0.0031	0.0004	16:30:01	Yes
2	0.00376	0.00004	0.0003	0.0029	0.0004	16:30:37	Yes
3	0.00403	0.00005	0.0003	0.0029	0.0004	16:31:14	Yes
Mean:	0.00389	0.00004	0.0003				
SD:	0.00014	0.00000	0.0000				
%RSD:	3.584	3.584	7.48				

Sequence No.: 16
Sample ID: L729564-01 WG750752
Analyst: 657
Initial Sample Wt: 0.304 g
Dilution:
Autosampler Location: 21
Date Collected: 10/28/2014 4:31:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729564-01 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00191	0.00002	-0.0000	-0.0001	0.0001	16:32:35	Yes
2	0.00241	0.00003	0.0001	0.0005	0.0001	16:33:12	Yes
3	0.00261	0.00003	0.0001	0.0003	0.0002	16:33:49	Yes
Mean:	0.00231	0.00003	0.0000				
SD:	0.00036	0.00000	0.0001				
%RSD:	15.49	15.49	144.29				

Sequence No.: 17
Sample ID: L729564-02 WG750752
Analyst: 657
Initial Sample Wt: 0.316 g
Dilution:
Autosampler Location: 22
Date Collected: 10/28/2014 4:34:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729564-02 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00236	0.00003	0.0001	0.0006	0.0002	16:35:10	Yes
2	0.00181	0.00002	-0.0000	-0.0003	0.0001	16:35:47	Yes
3	0.00267	0.00003	0.0001	0.0011	0.0002	16:36:24	Yes
Mean:	0.00228	0.00003	0.0000				
SD:	0.00044	0.00001	0.0001				
%RSD:	19.13	19.13	147.15				

Sequence No.: 18
Sample ID: L729564-04 WG750752
Analyst: 657
Initial Sample Wt: 0.3 g
Dilution:
Autosampler Location: 23
Date Collected: 10/28/2014 4:36:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729564-04 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00354	0.00004	0.0002	0.0022	0.0003	16:37:45	Yes
2	0.00349	0.00004	0.0002	0.0027	0.0003	16:38:22	Yes
3	0.00342	0.00004	0.0002	0.0023	0.0003	16:38:58	Yes
Mean:	0.00349	0.00004	0.0002				
SD:	0.00006	0.00000	0.0000				
%RSD:	1.763	1.763	4.41				

Sequence No.: 19
Sample ID: L729564-05 WG750752
Analyst: 657
Initial Sample Wt: 0.318 g
Dilution:
Autosampler Location: 24
Date Collected: 10/28/2014 4:39:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729564-05 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00381	0.00004	0.0003	0.0023	0.0004	16:40:21	Yes
2	0.00373	0.00004	0.0003	0.0026	0.0004	16:40:58	Yes
3	0.00373	0.00004	0.0003	0.0030	0.0004	16:41:34	Yes
Mean:	0.00376	0.00004	0.0003				
SD:	0.00005	0.00000	0.0000				
%RSD:	1.198	1.198	2.52				

==========

Sequence No.: 20 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 4:41:59 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		0.00252	0.0350	0.2890	0.0351	16:42:57	Yes
2		0.00247	0.0343	0.2818	0.0344	16:43:33	Yes
3		0.00246	0.0342	0.2808	0.0343	16:44:10	Yes
Mean:		0.00248	0.0345				
SD:		0.00003	0.0004				
%RSD:		1.287	1.30				

QC value within limits for Hg 253.7 Recovery = 99.35%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 4:44:33 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	0.0001	0.0008	0.0002	16:45:30	Yes
2		0.00002	-0.0000	0.0001	0.0001	16:46:06	Yes
3		0.00002	0.0000	0.0003	0.0001	16:46:43	Yes
Mean:		0.00002	0.0000				
SD:		0.00000	0.0001				
%RSD:		16.02	207.30				

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

==========

Sequence No.: 22 **Autosampler Location: 25**
Sample ID: L729566-01 WG750752 **Date Collected: 10/28/2014 4:47:06 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.288 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729566-01 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00251	0.00003	0.0000	0.0005	0.0001	16:48:04	Yes
2	0.00327	0.00003	0.0002	0.0017	0.0003	16:48:40	Yes
3	0.00243	0.00003	0.0000	0.0010	0.0001	16:49:17	Yes
Mean:	0.00273	0.00003	0.0001				
SD:	0.00046	0.00000	0.0001				
%RSD:	16.89	16.89	83.05				

==========

Sequence No.: 23 **Autosampler Location: 26**
Sample ID: L729566-02 WG750752 **Date Collected: 10/28/2014 4:49:42 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.288 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729566-02 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00325	0.00003	0.0002	0.0015	0.0003	16:50:39	Yes
2	0.00286	0.00003	0.0001	0.0012	0.0002	16:51:16	Yes
3	0.00373	0.00004	0.0002	0.0022	0.0003	16:51:53	Yes

Mean:	0.00328	0.00003	0.0002
SD:	0.00044	0.00000	0.0001
%RSD:	13.37	13.37	39.79

==========

Sequence No.: 24 **Autosampler Location: 27**
Sample ID: L729566-03 WG750752 **Date Collected: 10/28/2014 4:52:16 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.31 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729566-03 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00293	0.00003	0.0001	0.0012	0.0002	16:53:13	Yes
2	0.00270	0.00003	0.0001	0.0017	0.0002	16:53:50	Yes
3	0.00257	0.00003	0.0001	0.0012	0.0002	16:54:26	Yes
Mean:	0.00273	0.00003	0.0001				
SD:	0.00018	0.00000	0.0000				
%RSD:	6.647	6.647	25.62				

==========

Sequence No.: 25 **Autosampler Location: 28**
Sample ID: L729566-05 WG750752 **Date Collected: 10/28/2014 4:54:50 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.327 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729566-05 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00238	0.00003	0.0001	0.0010	0.0002	16:55:47	Yes
2	0.00208	0.00002	0.0000	0.0003	0.0001	16:56:24	Yes
3	0.00226	0.00003	0.0001	0.0010	0.0002	16:57:01	Yes
Mean:	0.00224	0.00003	0.0001				
SD:	0.00015	0.00000	0.0000				
%RSD:	6.719	6.719	46.71				

==========

Sequence No.: 26 **Autosampler Location: 29**
Sample ID: L729566-06 WG750752 **Date Collected: 10/28/2014 4:57:25 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.322 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729566-06 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00243	0.00003	0.0001	0.0017	0.0002	16:58:22	Yes
2	0.00248	0.00003	0.0001	0.0004	0.0002	16:58:58	Yes
3	0.00342	0.00004	0.0002	0.0028	0.0003	16:59:35	Yes
Mean:	0.00278	0.00003	0.0001				
SD:	0.00056	0.00001	0.0001				
%RSD:	20.19	20.19	67.69				

==========

Sequence No.: 27 **Autosampler Location: 30**
Sample ID: L729568-01 WG750752 **Date Collected: 10/28/2014 4:59:58 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.304 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729568-01 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00292	0.00003	0.0001	0.0020	0.0002	17:00:55	Yes
2	0.00280	0.00003	0.0001	0.0011	0.0002	17:01:31	Yes
3	0.00250	0.00003	0.0001	0.0005	0.0002	17:02:08	Yes

Mean:	0.00274	0.00003	0.0001
SD:	0.00021	0.00000	0.0000
%RSD:	7.836	7.836	31.72

==========

Sequence No.: 28 **Autosampler Location: 31**
Sample ID: L729568-04 WG750752 **Date Collected: 10/28/2014 5:02:32 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.286 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729568-04 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00605	0.00006	0.0006	0.0050	0.0007	17:03:29	Yes
2	0.00643	0.00007	0.0006	0.0057	0.0007	17:04:06	Yes
3	0.00597	0.00006	0.0006	0.0047	0.0006	17:04:42	Yes
Mean:	0.00615	0.00006	0.0006				
SD:	0.00024	0.00000	0.0000				
%RSD:	3.974	3.974	6.18				

==========

Sequence No.: 29 **Autosampler Location: 32**
Sample ID: L729568-05 WG750752 **Date Collected: 10/28/2014 5:05:05 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.294 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729568-05 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00317	0.00003	0.0002	0.0015	0.0003	17:06:03	Yes
2	0.00266	0.00003	0.0001	0.0004	0.0002	17:06:39	Yes
3	0.00291	0.00003	0.0001	0.0012	0.0002	17:07:16	Yes
Mean:	0.00291	0.00003	0.0001				
SD:	0.00026	0.00000	0.0000				
%RSD:	8.843	8.843	33.12				

==========

Sequence No.: 30 **Autosampler Location: 33**
Sample ID: L729763-01 WG750752 **Date Collected: 10/28/2014 5:07:40 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.294 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729763-01 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00273	0.00003	0.0001	0.0014	0.0002	17:08:37	Yes
2	0.00247	0.00003	0.0000	0.0010	0.0001	17:09:14	Yes
3	0.00218	0.00002	0.0000	0.0003	0.0001	17:09:50	Yes
Mean:	0.00246	0.00003	0.0000				
SD:	0.00027	0.00000	0.0000				
%RSD:	11.16	11.16	84.11				

==========

Sequence No.: 31 **Autosampler Location: 34**
Sample ID: L729763-05 WG750752 **Date Collected: 10/28/2014 5:10:14 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.306 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729763-05 WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00462	0.00005	0.0004	0.0038	0.0005	17:11:12	Yes
2	0.00434	0.00005	0.0004	0.0036	0.0005	17:11:48	Yes
3	0.00445	0.00005	0.0004	0.0031	0.0005	17:12:25	Yes

Mean:	0.00447	0.00005	0.0004
SD:	0.00014	0.00000	0.0000
%RSD:	3.115	3.115	5.76

==========

Sequence No.: 32 **Autosampler Location: 35**
Sample ID: INSTBLK WG750752 **Date Collected: 10/28/2014 5:12:49 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: INSTBLK WG750752

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00002	0.0000	0.0004	0.0001	17:13:47	Yes
2		0.00003	0.0000	0.0009	0.0001	17:14:24	Yes
3		0.00002	-0.0000	-0.0001	0.0001	17:15:00	Yes
Mean:		0.00002	0.0000				
SD:		0.00000	0.0000				
%RSD:		6.519	127.24				

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: 10/28/2014 5:15:25 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		0.00250	0.0348	0.2892	0.0349	17:16:22	Yes
2		0.00246	0.0342	0.2836	0.0343	17:16:59	Yes
3		0.00243	0.0337	0.2798	0.0338	17:17:35	Yes
Mean:		0.00246	0.0343				
SD:		0.00004	0.0005				
%RSD:		1.534	1.55				

QC value within limits for Hg 253.7 Recovery = 98.60%
All analyte(s) passed QC.

==========

Sequence No.: 34 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 5:17:59 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	0.0000	0.0002	0.0001	17:18:55	Yes
2		0.00003	0.0001	0.0012	0.0001	17:19:32	Yes
3		0.00003	0.0001	0.0010	0.0002	17:20:08	Yes
Mean:		0.00003	0.0001				
SD:		0.00000	0.0000				
%RSD:		11.54	73.71				

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 WG751137 **Date Collected: 10/28/2014 5:20:32 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.304 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: BLANK WG751137

Sequence No.: 118 **Autosampler Location: 109**
Sample ID: L729650-15 WG751134 **Date Collected: 10/28/2014 8:54:55 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.32 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729650-15 WG751134

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.3499	0.00407	0.0568	0.4835	0.0569	20:55:54	Yes
2	0.3480	0.00405	0.0565	0.4774	0.0566	20:56:30	Yes
3	0.3452	0.00402	0.0560	0.4730	0.0561	20:57:07	Yes
Mean:	0.3477	0.00405	0.0564				
SD:	0.00235	0.00003	0.0004				
%RSD:	0.6766	0.6766	0.68				

==========

Sequence No.: 119 **Autosampler Location: 110**
Sample ID: L729650-16 WG751134 **Date Collected: 10/28/2014 8:57:31 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: 0.31 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729650-16 WG751134

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.1412	0.00159	0.0220	0.1875	0.0221	20:58:30	Yes
2	0.1394	0.00157	0.0217	0.1850	0.0218	20:59:06	Yes
3	0.1386	0.00156	0.0216	0.1830	0.0217	20:59:43	Yes
Mean:	0.1397	0.00158	0.0218				
SD:	0.00132	0.00001	0.0002				
%RSD:	0.9428	0.9428	0.96				

==========

Sequence No.: 120 **Autosampler Location: 111**
Sample ID: INSTBLK WG751134 **Date Collected: 10/28/2014 9:00:07 PM**
Analyst: 657 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: INSTBLK WG751134

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00002	-0.0000	0.0002	0.0001	21:01:06	Yes
2		0.00002	0.0000	0.0004	0.0001	21:01:42	Yes
3		0.00002	-0.0001	-0.0007	0.0000	21:02:18	Yes
Mean:		0.00002	-0.0000				
SD:		0.00000	0.0000				
%RSD:		14.83	244.71				

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

==========

Sequence No.: 121 **Autosampler Location: 3**
Sample ID: CCVLL 14J23419 **Date Collected: 10/28/2014 9:02:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00040	0.0053	0.0459	0.0054	21:03:40	Yes
2		0.00040	0.0053	0.0461	0.0054	21:04:17	Yes
3		0.00040	0.0053	0.0455	0.0054	21:04:53	Yes
Mean:		0.00040	0.0053				
SD:		0.00000	0.0000				
%RSD:		0.6310	0.67				

QC value within limits for Hg 253.7 Recovery = 100.45%

All analyte(s) passed QC.

==========

Sequence No.: 122 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 9:05:17 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		0.00245	0.0340	0.2934	0.0341	21:06:15	Yes
2		0.00242	0.0336	0.2876	0.0337	21:06:51	Yes
3		0.00239	0.0333	0.2845	0.0334	21:07:28	Yes
Mean:		0.00242	0.0336				
SD:		0.00003	0.0004				
%RSD:		1.069	1.08				

QC value within limits for Hg 253.7 Recovery = 96.76%
All analyte(s) passed QC.

==========

Sequence No.: 123 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 9:07:52 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	-0.0000	0.0001	0.0001	21:08:48	Yes
2		0.00002	-0.0000	-0.0002	0.0001	21:09:25	Yes
3		0.00002	-0.0000	0.0005	0.0001	21:10:01	Yes
Mean:		0.00002	-0.0000				
SD:		0.00000	0.0000				
%RSD:		4.680	48.07				

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 14J23419	QC Passed
2	157	ICV 14J09761	QC Passed
3	1	ICB	QC Passed
4	9	BLANK WG750752	Analyzed
5	10	LCS WG750752	Analyzed
6	11	LCSD WG750752	Analyzed
7	12	L729568-02 WG750752	Analyzed
8	13	MS WG750752 L729568-02	Analyzed
9	14	MSD WG750752 L729568-02	Analyzed
10	15	SD WG750752 L729568-02	Analyzed
11	16	L729563-01 WG750752	Analyzed
12	17	L729563-02 WG750752	Analyzed
13	18	L729563-04 WG750752	Analyzed
14	19	L729563-05 WG750752	Analyzed
15	20	L729563-06 WG750752	Analyzed
16	21	L729564-01 WG750752	Analyzed
17	22	L729564-02 WG750752	Analyzed
18	23	L729564-04 WG750752	Analyzed
19	24	L729564-05 WG750752	Analyzed
20	8	CCV 14J09762	QC Passed
21	1	CCB	QC Passed
22	25	L729566-01 WG750752	Analyzed
23	26	L729566-02 WG750752	Analyzed
24	27	L729566-03 WG750752	Analyzed
25	28	L729566-05 WG750752	Analyzed
26	29	L729566-06 WG750752	Analyzed
27	30	L729568-01 WG750752	Analyzed

28	31	L729568-04 WG750752	Analyzed
29	32	L729568-05 WG750752	Analyzed
30	33	L729763-01 WG750752	Analyzed
31	34	L729763-05 WG750752	Analyzed
32	35	INSTBLK WG750752	Analyzed
33	8	CCV 14J09762	QC Passed
34	1	CCB	QC Passed
35	36	BLANK WG751137	Analyzed
36	37	LCS WG751137	Analyzed
37	38	LCSD WG751137	Analyzed
38	39	L729671-19 WG751137	Analyzed
39	40	MS WG751137 L729671-19	Analyzed
40	41	MSD WG751137 L729671-19	Analyzed
41	42	SD WG751137 L729671-19	Analyzed
42	43	L729671-20 WG751137	Analyzed
43	44	L729671-21 WG751137	Analyzed
44	45	L729671-25 WG751137	Analyzed
45	46	L729671-26 WG751137	Analyzed
46	47	L729671-27 WG751137	Analyzed
47	48	L729671-31 WG751137	Analyzed
48	49	L729671-32 WG751137	Analyzed
49	50	L729671-33 WG751137	Analyzed
50	51	L729690-01 WG751137	Analyzed
51	8	CCV 14J09762	QC Passed
52	1	CCB	QC Passed
53	52	L729690-02 WG751137	Analyzed
54	53	L729690-03 WG751137	Analyzed
55	54	L729690-04 WG751137	Analyzed
56	55	L729690-05 WG751137	Analyzed
57	56	L729690-06 WG751137	Analyzed
58	57	L729690-07 WG751137	Analyzed
59	58	L729690-08 WG751137	Analyzed
60	59	L729690-09 WG751137	Analyzed
61	60	L729690-10 WG751137	Analyzed
62	61	INSTBLK WG751137	Analyzed
63	62	BLANK WG751138	Analyzed
64	63	LCS WG751138	Analyzed
65	64	LCSD WG751138	Analyzed
66	65	L729753-07 WG751138	Analyzed
67	66	MS WG751138 L729753-07	Analyzed
68	67	MSD WG751138 L729753-07	Analyzed
69	68	SD WG751138 L729753-07	Analyzed
70	8	CCV 14J09762	QC Passed
71	1	CCB	QC Passed
72	69	L729755-01 WG751138	Analyzed
73	70	L729768-01 WG751138	Analyzed
74	71	L729772-01 WG751138	Analyzed
75	72	L729772-02 WG751138	Analyzed
76	73	L729772-03 WG751138	Analyzed
77	74	L729772-04 WG751138	Analyzed
78	75	L729772-05 WG751138	Analyzed
79	76	L729772-06 WG751138	Analyzed
80	77	L729772-07 WG751138	Analyzed
81	78	L729772-08 WG751138	Analyzed
82	8	CCV 14J09762	QC Passed
83	1	CCB	QC Passed
84	79	L729772-09 WG751138	Analyzed
85	80	L729772-10 WG751138	Analyzed
86	81	L729772-11 WG751138	Analyzed
87	82	L729772-12 WG751138	Analyzed
88	83	L729772-13 WG751138	Analyzed
89	84	L729772-14 WG751138	Analyzed
90	85	L729781-01 WG751138	Analyzed
91	86	L729781-03 WG751138	Analyzed
92	87	L729781-05 WG751138	Analyzed
93	88	INSTBLK WG751138	Analyzed
94	89	BLANK WG751134	Analyzed
95	90	LCS WG751134	Analyzed
96	91	LCSD WG751134	Analyzed
97	92	L729650-01 WG751134	Analyzed
98	93	MS WG751134 L729650-01	Analyzed
99	94	MSD WG751134 L729650-01	Analyzed

100	95	SD WG751134 L729650-01	Analyzed
101	8	CCV 14J09762	QC Passed
102	1	CCB	QC Passed
103	96	L729650-02 WG751134	Analyzed
104	97	L729650-03 WG751134	Analyzed
105	98	L729650-04 WG751134	Analyzed
106	99	L729650-05 WG751134	Analyzed
107	100	L729650-06 WG751134	Analyzed
108	101	L729650-07 WG751134	Analyzed
109	102	L729650-08 WG751134	Analyzed
110	103	L729650-09 WG751134	Analyzed
111	104	L729650-10 WG751134	Analyzed
112	105	L729650-11 WG751134	Analyzed
113	8	CCV 14J09762	QC Passed
114	1	CCB	QC Passed
115	106	L729650-12 WG751134	Analyzed
116	107	L729650-13 WG751134	Analyzed
117	108	L729650-14 WG751134	Analyzed
118	109	L729650-15 WG751134	Analyzed
119	110	L729650-16 WG751134	Analyzed
120	111	INSTBLK WG751134	Analyzed
121	3	CCVLL 14J23419	QC Passed
122	8	CCV 14J09762	QC Passed
123	1	CCB	QC Passed

Trace Metals by Method 6010B

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Est. 1970

Quality Control Summary
SDG: L729564

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

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG750667**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-01 5x	10/23/2014	10/27/2014	11/05/2014
L729564-02 5x	10/23/2014	10/27/2014	11/05/2014
L729564-04 5x	10/23/2014	10/27/2014	11/05/2014
L729564-05 5x	10/23/2014	10/27/2014	11/05/2014

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752045**
Analysis Date:	11/4/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/31/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG752045**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-01 5x	10/23/2014	10/31/2014	11/04/2014
L729564-02 5x	10/23/2014	10/31/2014	11/04/2014
L729564-04 5x	10/23/2014	10/31/2014	11/04/2014
L729564-05 5x	10/23/2014	10/31/2014	11/04/2014

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP12	Blank WG750667	Blank WG750667	16	11/5/2014	12:14 PM
ICP12	LCS WG750667	LCS WG750667	17	11/5/2014	12:18 PM
ICP12	LCSD WG750667	LCSD WG750667	18	11/5/2014	12:22 PM
ICP12	TU904-SB08-NS02	L729564-05	19	11/5/2014	12:26 PM
ICP12	DUP WG750667	DUP WG750667	20	11/5/2014	12:31 PM
ICP12	PS WG750667	PS WG750667	21	11/5/2014	12:35 PM
ICP12	MS WG750667	MS WG750667	22	11/5/2014	12:39 PM
ICP12	MSD WG750667	MSD WG750667	23	11/5/2014	12:44 PM
ICP12	TU904-SB05-NS01	L729564-01	31	11/5/2014	1:19 PM
ICP12	TU904-SB05-NS02	L729564-02	32	11/5/2014	1:23 PM
ICP12	TU904-SB08-NS01	L729564-04	33	11/5/2014	1:28 PM

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752045**
Analysis Date:	11/4/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/31/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP11	Blank WG752045	Blank WG752045	52	11/4/2014	12:11 PM
ICP11	LCS WG752045	LCS WG752045	53	11/4/2014	12:16 PM
ICP11	LCSD WG752045	LCSD WG752045	54	11/4/2014	12:21 PM
ICP11	DUP WG752045	DUP WG752045	56	11/4/2014	12:32 PM
ICP11	MS WG752045	MS WG752045	57	11/4/2014	12:37 PM
ICP11	MSD WG752045	MSD WG752045	58	11/4/2014	12:42 PM
ICP11	TU904-SB05-NS01	L729564-01	66	11/4/2014	1:22 PM
ICP11	TU904-SB05-NS02	L729564-02	67	11/4/2014	1:27 PM
ICP11	TU904-SB08-NS01	L729564-04	68	11/4/2014	1:32 PM
ICP11	TU904-SB08-NS02	L729564-05	69	11/4/2014	1:38 PM

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum	7429-90-5	< 10.0	< 3.5	
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	1.65	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752045**
Analysis Date:	11/4/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/31/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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	167.82	106	81 - 119	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Thallium	1	158	160.90	102	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	167.82	106	160.90	102	81 - 119		4	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	10100	12734	126	50.6 - 150	
Antimony	1	113	97.677	86	0.88 - 223	
Arsenic	1	237	255.79	108	83.1 - 117	
Barium	1	252	262.28	104	84.1 - 116	
Beryllium	1	93.3	97.566	105	83.3 - 117	
Cadmium	1	191	208.78	109	83.2 - 117	
Chromium	1	128	131.96	103	81.3 - 118	
Cobalt	1	178	199.55	112	83.7 - 116	
Copper	1	123	128.28	104	83.7 - 116	
Lead	1	103	110.83	108	83.1 - 117	
Manganese	1	333	359.82	108	82.3 - 117	
Nickel	1	118	131.26	111	82 - 118	
Selenium	1	110	127.11	116	78.7 - 122	
Silver	1	47.3	53.110	112	66.2 - 134	
Vanadium	1	119	128.25	108	79.7 - 120	
Zinc	1	183	184.87	101	82 - 118	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	10100	13508	134	50.6 - 150	
Antimony	1	113	100.80	89	0.88 - 223	
Arsenic	1	237	260.95	110	83.1 - 117	
Barium	1	252	268.46	107	84.1 - 116	
Beryllium	1	93.3	104.08	112	83.3 - 117	
Cadmium	1	191	215.40	113	83.2 - 117	
Chromium	1	128	136.26	106	81.3 - 118	
Cobalt	1	178	206.37	116	83.7 - 116	
Copper	1	123	135.35	110	83.7 - 116	
Lead	1	103	112.73	109	83.1 - 117	
Manganese	1	333	348.77	105	82.3 - 117	
Nickel	1	118	135.72	115	82 - 118	
Selenium	1	110	128.45	117	78.7 - 122	
Silver	1	47.3	52.296	111	66.2 - 134	
Vanadium	1	119	136.74	115	79.7 - 120	
Zinc	1	183	189.68	104	82 - 118	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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	12734	126	13508	134	50.6 - 150		6	20	
Antimony	1	113	97.677	86	100.80	89	0.88 - 223		3	20	
Arsenic	1	237	255.79	108	260.95	110	83.1 - 117		2	20	
Barium	1	252	262.28	104	268.46	107	84.1 - 116		2	20	
Beryllium	1	93.3	97.566	105	104.08	112	83.3 - 117		6	20	
Cadmium	1	191	208.78	109	215.40	113	83.2 - 117		3	20	
Chromium	1	128	131.96	103	136.26	106	81.3 - 118		3	20	
Cobalt	1	178	199.55	112	206.37	116	83.7 - 116		3	20	
Copper	1	123	128.28	104	135.35	110	83.7 - 116		5	20	
Lead	1	103	110.83	108	112.73	109	83.1 - 117		2	20	
Manganese	1	333	359.82	108	348.77	105	82.3 - 117		3	20	
Nickel	1	118	131.26	111	135.72	115	82 - 118		3	20	
Selenium	1	110	127.11	116	128.45	117	78.7 - 122		1	20	
Silver	1	47.3	53.110	112	52.296	111	66.2 - 134		2	20	
Vanadium	1	119	128.25	108	136.74	115	79.7 - 120		6	20	
Zinc	1	183	184.87	101	189.68	104	82 - 118		3	20	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Serial Dilution

L729564-05

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum	25	10776	10852	1	10	
Antimony	25	<3.75	<18.75		10	
Arsenic	25	<3.25	<16.25		10	
Barium	25	62.957	67.994	8	10	
Beryllium	25	0.4093	<1.75	58	10	
Cadmium	25	<0.35	<1.75		10	
Chromium	25	12.493	15.512	24	10	
Cobalt	25	4.1349	<5.75	14	10	
Copper	25	5.5058	<13.25	101	10	
Lead	25	4.4814	<4.75	51	10	
Manganese	25	153.46	162.69	6	10	
Nickel	25	8.3537	<12.25	12	10	
Selenium	25	<3.7	<18.5		10	
Silver	25	<1.4	<7		10	
Vanadium	25	23.626	19.169	19	10	
Zinc	25	27.268	28.064	3	10	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729564-05

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum	5	23.8	12798	11713	0	13938	959	75 - 125	V	17	20	
Antimony	5	23.8	<3.75	64.284	54	71.286	60	75 - 125	J6	10	20	
Arsenic	5	23.8	<3.25	117.68	98	132.78	111	75 - 125		12	20	
Barium	5	23.8	74.771	194.82	101	232.88	133	75 - 125	J5	18	20	
Beryllium	5	23.8	0.4861	111.69	94	131.93	111	75 - 125		17	20	
Cadmium	5	23.8	<0.35	118.07	99	134.35	113	75 - 125		13	20	
Chromium	5	23.8	14.837	125.35	93	144.16	109	75 - 125		14	20	
Cobalt	5	23.8	4.9108	119.34	96	138.12	112	75 - 125		15	20	
Copper	5	23.8	6.5389	118.00	94	135.47	109	75 - 125		14	20	
Lead	5	23.8	5.3223	115.39	93	133.50	108	75 - 125		15	20	
Manganese	5	23.8	182.25	237.15	46	295.22	95	75 - 125	J6	22	20	J3
Nickel	5	23.8	9.9212	122.54	95	140.74	110	75 - 125		14	20	
Selenium	5	23.8	<3.7	120.57	100	138.15	115	75 - 125		14	20	
Silver	5	23.8	<1.4	115.86	98	132.63	112	75 - 125		13	20	
Vanadium	5	23.8	28.059	137.43	92	162.34	113	75 - 125		17	20	
Zinc	5	23.8	32.384	138.22	89	158.82	106	75 - 125		14	20	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750667**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	10/24/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Post Digest Spike

L729564-05

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Aluminum	5	99	10776	10353	0	75-125	O1
Antimony	5	99	<3.75	-0.084	0	75-125	O1
Arsenic	5	99	<3.25	0.3714	0	75-125	
Barium	5	99	62.957	60.182	0	75-125	O1
Beryllium	5	99	0.4093	0.3342	0	75-125	
Cadmium	5	99	<0.35	0.1670	0	75-125	
Chromium	5	99	12.493	11.934	0	75-125	
Cobalt	5	99	4.1349	3.9660	0	75-125	
Copper	5	99	5.5058	4.3620	0	75-125	
Lead	5	99	4.4814	4.9279	0	75-125	
Manganese	5	99	153.46	146.86	0	75-125	O1
Nickel	5	99	8.3537	8.1862	0	75-125	
Selenium	5	99	<3.7	1.3265	0	75-125	
Silver	5	99	<1.4	-0.342	0	75-125	
Vanadium	5	99	23.626	22.244	0	75-125	
Zinc	5	99	27.268	25.591	0	75-125	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752045**
Analysis Date:	11/4/2014	Analyst:	388
Instrument ID:	ICP11	Prep Date:	10/31/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Serial Dilution

L729563-01

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

Matrix Spike / Matrix Spike Duplicate

L729563-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Thallium	5	29.5	<3.25	150.74	102	147.54	100	75 - 125		2	20	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: ICV
Analysis Date: 11/5/2014 11:47 AM
Analysis Time: 1147
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.101	0.1	101 %	90-110
Aluminum	9.71	10	97 %	90-110
Arsenic	1.00	1	100 %	90-110
Barium	1.02	1	102 %	90-110
Beryllium	1.00	1	100 %	90-110
Cadmium	1.03	1	103 %	90-110
Cobalt	1.00	1	100 %	90-110
Chromium	0.999	1	100 %	90-110
Copper	1.01	1	101 %	90-110
Manganese	0.996	1	100 %	90-110
Nickel	0.995	1	99 %	90-110
Lead	1.00	1	100 %	90-110
Antimony	1.04	1	104 %	90-110
Selenium	1.03	1	103 %	90-110
Vanadium	1.01	1	101 %	90-110
Zinc	0.992	1	99 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: ICVLL
Analysis Date: 11/5/2014 11:56 AM
Analysis Time: 1156
Data File: 110514ICP12A

Analyte	Conc.
Silver	0.0096
Aluminum	0.0745
Arsenic	0.0206
Barium	0.0054
Beryllium	0.0018
Cadmium	0.0054
Cobalt	0.0092
Chromium	0.0102
Copper	0.0219
Manganese	0.0104
Nickel	0.0190
Lead	0.0045
Antimony	0.0204
Selenium	0.0202
Vanadium	0.0096
Zinc	0.0304

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 11/5/2014 12:57 PM
Analysis Time: 1257
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	1.01	1	101 %	90-110
Aluminum	9.53	10	95 %	90-110
Arsenic	2.01	2	100 %	90-110
Barium	0.501	0.5	100 %	90-110
Beryllium	0.199	0.2	100 %	90-110
Cadmium	0.536	0.5	107 %	90-110
Cobalt	1.01	1	101 %	90-110
Chromium	1.00	1	100 %	90-110
Copper	1.97	2	99 %	90-110
Manganese	1.01	1	101 %	90-110
Nickel	2.03	2	102 %	90-110
Lead	0.493	0.5	99 %	90-110
Antimony	2.02	2	101 %	90-110
Selenium	2.08	2	104 %	90-110
Vanadium	0.997	1	100 %	90-110
Zinc	2.95	3	98 %	90-110

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 11/5/2014 1:32 PM
Analysis Time: 1332
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	1.01	1	101 %	90-110
Aluminum	9.66	10	97 %	90-110
Arsenic	2.02	2	101 %	90-110
Barium	0.502	0.5	100 %	90-110
Beryllium	0.198	0.2	99 %	90-110
Cadmium	0.535	0.5	107 %	90-110
Cobalt	1.01	1	101 %	90-110
Chromium	0.987	1	99 %	90-110
Copper	1.99	2	99 %	90-110
Manganese	0.991	1	99 %	90-110
Nickel	2.01	2	100 %	90-110
Lead	0.488	0.5	98 %	90-110
Antimony	2.05	2	102 %	90-110
Selenium	2.09	2	105 %	90-110
Vanadium	0.996	1	100 %	90-110
Zinc	2.93	3	98 %	90-110

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCVLL
Analysis Date: 11/5/2014 1:41 PM
Analysis Time: 1341
Data File: 110514ICP12A

Analyte	Conc.
Silver	0.0096
Aluminum	0.0756
Arsenic	0.0212
Barium	0.0054
Beryllium	0.0021
Cadmium	0.0054
Cobalt	0.0093
Chromium	0.0104
Copper	0.0221
Manganese	0.0104
Nickel	0.0195
Lead	0.0045
Antimony	0.0192
Selenium	0.0191
Vanadium	0.0081
Zinc	0.0312

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
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: CCVLL
Analysis Date: 11/4/2014 11:03 AM
Analysis Time: 1103
Data File: 110414ICP11

Analyte	Conc.
Thallium	0.0216

Standard Type: CCV
Analysis Date: 11/4/2014 12:01 PM
Analysis Time: 1201
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.98	2	99 %	90-110

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP11

Standard Type: CCV
Analysis Date: 11/4/2014 1:07 PM
Analysis Time: 1307
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.97	2	99 %	90-110

Standard Type: CCV
Analysis Date: 11/4/2014 1:43 PM
Analysis Time: 1343
Data File: 110414ICP11

Analyte	Conc.	True Value	Recovery	Limits
Thallium	1.98	2	99 %	90-110

Standard Type: CCVLL
Analysis Date: 11/4/2014 1:59 PM
Analysis Time: 1359
Data File: 110414ICP11

Analyte	Conc.
Thallium	0.0204

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: ICB
Analysis Date: 11/5/2014 11:52 AM
Analysis Time: 1152
Data File: 110514ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	110514ICP12A
Aluminum	3.5	< 3.5	110514ICP12A
Arsenic	0.65	< 0.65	110514ICP12A
Barium	0.17	< 0.17	110514ICP12A
Beryllium	0.07	< 0.07	110514ICP12A
Cadmium	0.07	< 0.07	110514ICP12A
Cobalt	0.23	< 0.23	110514ICP12A
Chromium	0.14	< 0.14	110514ICP12A
Copper	0.53	< 0.53	110514ICP12A
Manganese	0.12	< 0.12	110514ICP12A
Nickel	0.49	< 0.49	110514ICP12A
Lead	0.19	< 0.19	110514ICP12A
Antimony	0.75	< 0.75	110514ICP12A
Selenium	0.74	< 0.74	110514ICP12A
Vanadium	0.24	< 0.24	110514ICP12A
Zinc	0.59	< 0.59	110514ICP12A

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 11/5/2014 1:01 PM
Analysis Time: 1301
Data File: 110514ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	110514ICP12A
Aluminum	3.5	< 3.5	110514ICP12A
Arsenic	0.65	< 0.65	110514ICP12A
Barium	0.17	< 0.17	110514ICP12A
Beryllium	0.07	< 0.07	110514ICP12A
Cadmium	0.07	< 0.07	110514ICP12A
Cobalt	0.23	< 0.23	110514ICP12A
Chromium	0.14	< 0.14	110514ICP12A
Copper	0.53	< 0.53	110514ICP12A
Manganese	0.12	< 0.12	110514ICP12A
Nickel	0.49	< 0.49	110514ICP12A
Lead	0.19	< 0.19	110514ICP12A
Antimony	0.75	< 0.75	110514ICP12A
Selenium	0.74	< 0.74	110514ICP12A
Vanadium	0.24	< 0.24	110514ICP12A
Zinc	0.59	< 0.59	110514ICP12A

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 11/5/2014 1:36 PM
Analysis Time: 1336
Data File: 110514ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	110514ICP12A
Aluminum	3.5	< 3.5	110514ICP12A
Arsenic	0.65	< 0.65	110514ICP12A
Barium	0.17	< 0.17	110514ICP12A
Beryllium	0.07	< 0.07	110514ICP12A
Cadmium	0.07	< 0.07	110514ICP12A
Cobalt	0.23	< 0.23	110514ICP12A
Chromium	0.14	< 0.14	110514ICP12A
Copper	0.53	< 0.53	110514ICP12A
Manganese	0.12	< 0.12	110514ICP12A
Nickel	0.49	< 0.49	110514ICP12A
Lead	0.19	< 0.19	110514ICP12A
Antimony	0.75	< 0.75	110514ICP12A
Selenium	0.74	< 0.74	110514ICP12A
Vanadium	0.24	< 0.24	110514ICP12A
Zinc	0.59	< 0.59	110514ICP12A

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
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 12:06 PM
Analysis Time: 1206
Data File: 110414ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110414ICP11

Standard Type: CCB
Analysis Date: 11/4/2014 1:12 PM
Analysis Time: 1312
Data File: 110414ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110414ICP11

Standard Type: CCB
Analysis Date: 11/4/2014 1:51 PM
Analysis Time: 1351
Data File: 110414ICP11

Analyte	MDL	Conc	Filename
Thallium	0.65	< 0.65	110414ICP11

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/5/2014 12:01 PM
Analysis Time: 1201
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0002	0		80 - 120
ALUMINUM	486	500	97 %	80 - 120
ARSENIC	-0.0052	0		80 - 120
BORON	-0.0076	0		80 - 120
BARIUM	0.0020	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	487	500	97 %	80 - 120
CADMIUM	-0.0009	0		80 - 120
COBALT	0.0005	0		80 - 120
CHROMIUM	0.0012	0		80 - 120
COPPER	0.0035	0		80 - 120
IRON	195	200	97 %	80 - 120
POTASSIUM	0.0420	0		80 - 120
LITHIUM	0.0026	0		80 - 120
MAGNESIUM	495	500	99 %	80 - 120
MANGANESE	-0.0056	0		80 - 120
MOLYBDENUM	-0.0015	0		80 - 120
SODIUM	0.0382	0		80 - 120
NICKEL	-0.0168	0		80 - 120
LEAD	-0.0245	0		80 - 120
SULFUR	-0.0027	0		80 - 120
ANTIMONY	-0.0070	0		80 - 120
SELENIUM	0.0240	0		80 - 120
SILICON	-0.0006	0		80 - 120
TIN	0.0015	0		80 - 120
STRONTIUM	0.0075	0		80 - 120
TITANIUM	-0.0062	0		80 - 120
THALLIUM	-0.0098	0		80 - 120
VANADIUM	0.0062	0		80 - 120
ZINC	0.0040	0		80 - 120

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/5/2014 12:05 PM
Analysis Time: 1205
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.12	1.00	112 %	80 - 120
ALUMINUM	486	500	97 %	80 - 120
ARSENIC	0.497	0.500	99 %	80 - 120
BORON	0.988	1.00	99 %	80 - 120
BARIUM	0.462	0.500	92 %	80 - 120
BERYLLIUM	0.488	0.500	98 %	80 - 120
CALCIUM	488	500	98 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.492	0.500	98 %	80 - 120
CHROMIUM	0.456	0.500	91 %	80 - 120
COPPER	0.508	0.500	102 %	80 - 120
IRON	196	200	98 %	80 - 120
POTASSIUM	0.0406	0		80 - 120
LITHIUM	0.0041	0		80 - 120
MAGNESIUM	499	500	100 %	80 - 120
MANGANESE	0.449	0.500	90 %	80 - 120
MOLYBDENUM	0.454	0.500	91 %	80 - 120
SODIUM	0.0463	0		80 - 120
NICKEL	0.961	1.00	96 %	80 - 120
LEAD	0.924	1.00	92 %	80 - 120
SULFUR	-0.0012	0		80 - 120
ANTIMONY	0.502	0.500	100 %	80 - 120
SELENIUM	0.536	0.500	107 %	80 - 120
SILICON	0.939	1.00	94 %	80 - 120
TIN	0.485	0.500	97 %	80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	0.483	0.500	97 %	80 - 120
THALLIUM	0.446	0.500	89 %	80 - 120
VANADIUM	0.481	0.500	96 %	80 - 120
ZINC	0.879	1.00	88 %	80 - 120

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/5/2014 3:54 PM
Analysis Time: 1554
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0007	0		80 - 120
ALUMINUM	483	500	97 %	80 - 120
ARSENIC	-0.0035	0		80 - 120
BORON	-0.0021	0		80 - 120
BARIUM	0.0022	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	485	500	97 %	80 - 120
CADMIUM	-0.0010	0		80 - 120
COBALT	0.0001	0		80 - 120
CHROMIUM	0.0008	0		80 - 120
COPPER	0.0013	0		80 - 120
IRON	193	200	97 %	80 - 120
POTASSIUM	0.0348	0		80 - 120
LITHIUM	0.0034	0		80 - 120
MAGNESIUM	492	500	98 %	80 - 120
MANGANESE	-0.0054	0		80 - 120
MOLYBDENUM	-0.0015	0		80 - 120
SODIUM	0.0312	0		80 - 120
NICKEL	-0.0158	0		80 - 120
LEAD	-0.0282	0		80 - 120
SULFUR	0.0455	0		80 - 120
ANTIMONY	-0.0055	0		80 - 120
SELENIUM	0.0264	0		80 - 120
SILICON	-0.0015	0		80 - 120
TIN	0.0016	0		80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	-0.0053	0		80 - 120
THALLIUM	-0.0113	0		80 - 120
VANADIUM	0.0056	0		80 - 120
ZINC	0.0038	0		80 - 120

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/5/2014 3:58 PM
Analysis Time: 1558
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.10	1.00	110 %	80 - 120
ALUMINUM	480	500	96 %	80 - 120
ARSENIC	0.498	0.500	100 %	80 - 120
BORON	0.957	1.00	96 %	80 - 120
BARIUM	0.463	0.500	93 %	80 - 120
BERYLLIUM	0.477	0.500	95 %	80 - 120
CALCIUM	481	500	96 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.494	0.500	99 %	80 - 120
CHROMIUM	0.453	0.500	91 %	80 - 120
COPPER	0.496	0.500	99 %	80 - 120
IRON	192	200	96 %	80 - 120
POTASSIUM	0.0222	0		80 - 120
LITHIUM	0.0038	0		80 - 120
MAGNESIUM	489	500	98 %	80 - 120
MANGANESE	0.442	0.500	88 %	80 - 120
MOLYBDENUM	0.455	0.500	91 %	80 - 120
SODIUM	0.0320	0		80 - 120
NICKEL	0.963	1.00	96 %	80 - 120
LEAD	0.928	1.00	93 %	80 - 120
SULFUR	0.0439	0		80 - 120
ANTIMONY	0.501	0.500	100 %	80 - 120
SELENIUM	0.532	0.500	106 %	80 - 120
SILICON	0.925	1.00	93 %	80 - 120
TIN	0.484	0.500	97 %	80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	0.473	0.500	95 %	80 - 120
THALLIUM	0.448	0.500	90 %	80 - 120
VANADIUM	0.467	0.500	93 %	80 - 120
ZINC	0.881	1.00	88 %	80 - 120

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/5/2014 8:30 PM
Analysis Time: 2030
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0004	0		80 - 120
ALUMINUM	466	500	93 %	80 - 120
ARSENIC	-0.0022	0		80 - 120
BORON	-0.0002	0		80 - 120
BARIUM	0.0018	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	483	500	97 %	80 - 120
CADMIUM	-0.0014	0		80 - 120
COBALT	0.0006	0		80 - 120
CHROMIUM	0.0013	0		80 - 120
COPPER	0.0014	0		80 - 120
IRON	194	200	97 %	80 - 120
POTASSIUM	0.0743	0		80 - 120
LITHIUM	0.0032	0		80 - 120
MAGNESIUM	496	500	99 %	80 - 120
MANGANESE	-0.0061	0		80 - 120
MOLYBDENUM	-0.0018	0		80 - 120
SODIUM	0.101	0		80 - 120
NICKEL	-0.0169	0		80 - 120
LEAD	-0.0310	0		80 - 120
SULFUR	0.0499	0		80 - 120
ANTIMONY	-0.0029	0		80 - 120
SELENIUM	0.0196	0		80 - 120
SILICON	-0.0024	0		80 - 120
TIN	0.0010	0		80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	-0.0038	0		80 - 120
THALLIUM	-0.0081	0		80 - 120
VANADIUM	0.0048	0		80 - 120
ZINC	0.0045	0		80 - 120

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/5/2014 8:34 PM
Analysis Time: 2034
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.13	1.00	113 %	80 - 120
ALUMINUM	477	500	95 %	80 - 120
ARSENIC	0.504	0.500	101 %	80 - 120
BORON	0.990	1.00	99 %	80 - 120
BARIUM	0.463	0.500	93 %	80 - 120
BERYLLIUM	0.486	0.500	97 %	80 - 120
CALCIUM	495	500	99 %	80 - 120
CADMIUM	1.04	1.00	104 %	80 - 120
COBALT	0.526	0.500	105 %	80 - 120
CHROMIUM	0.492	0.500	98 %	80 - 120
COPPER	0.512	0.500	102 %	80 - 120
IRON	199	200	100 %	80 - 120
POTASSIUM	0.0523	0		80 - 120
LITHIUM	0.0036	0		80 - 120
MAGNESIUM	512	500	102 %	80 - 120
MANGANESE	0.490	0.500	98 %	80 - 120
MOLYBDENUM	0.468	0.500	94 %	80 - 120
SODIUM	0.138	0		80 - 120
NICKEL	1.04	1.00	104 %	80 - 120
LEAD	0.994	1.00	99 %	80 - 120
SULFUR	0.0629	0		80 - 120
ANTIMONY	0.487	0.500	97 %	80 - 120
SELENIUM	0.535	0.500	107 %	80 - 120
SILICON	0.929	1.00	93 %	80 - 120
TIN	0.518	0.500	104 %	80 - 120
STRONTIUM	0.0076	0		80 - 120
TITANIUM	0.491	0.500	98 %	80 - 120
THALLIUM	0.465	0.500	93 %	80 - 120
VANADIUM	0.499	0.500	100 %	80 - 120
ZINC	0.964	1.00	96 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/5/2014 9:40 PM
Analysis Time: 2140
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0004	0		80 - 120
ALUMINUM	476	500	95 %	80 - 120
ARSENIC	-0.0037	0		80 - 120
BORON	0.0008	0		80 - 120
BARIUM	0.0020	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	485	500	97 %	80 - 120
CADMIUM	-0.0012	0		80 - 120
COBALT	0.0011	0		80 - 120
CHROMIUM	0.0009	0		80 - 120
COPPER	0.0026	0		80 - 120
IRON	194	200	97 %	80 - 120
POTASSIUM	0.0926	0		80 - 120
LITHIUM	0.0044	0		80 - 120
MAGNESIUM	495	500	99 %	80 - 120
MANGANESE	-0.0061	0		80 - 120
MOLYBDENUM	-0.0019	0		80 - 120
SODIUM	0.0937	0		80 - 120
NICKEL	-0.0175	0		80 - 120
LEAD	-0.0257	0		80 - 120
SULFUR	0.0163	0		80 - 120
ANTIMONY	-0.0033	0		80 - 120
SELENIUM	0.0207	0		80 - 120
SILICON	0.0020	0		80 - 120
TIN	0.0009	0		80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	-0.0038	0		80 - 120
THALLIUM	-0.0085	0		80 - 120
VANADIUM	0.0041	0		80 - 120
ZINC	0.0046	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/5/2014 9:44 PM
Analysis Time: 2144
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.07	1.00	107 %	80 - 120
ALUMINUM	478	500	96 %	80 - 120
ARSENIC	0.504	0.500	101 %	80 - 120
BORON	0.984	1.00	98 %	80 - 120
BARIUM	0.458	0.500	92 %	80 - 120
BERYLLIUM	0.486	0.500	97 %	80 - 120
CALCIUM	490	500	98 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.512	0.500	102 %	80 - 120
CHROMIUM	0.458	0.500	92 %	80 - 120
COPPER	0.508	0.500	102 %	80 - 120
IRON	197	200	99 %	80 - 120
POTASSIUM	0.108	0		80 - 120
LITHIUM	0.0038	0		80 - 120
MAGNESIUM	503	500	101 %	80 - 120
MANGANESE	0.458	0.500	92 %	80 - 120
MOLYBDENUM	0.465	0.500	93 %	80 - 120
SODIUM	0.119	0		80 - 120
NICKEL	1.01	1.00	101 %	80 - 120
LEAD	0.965	1.00	97 %	80 - 120
SULFUR	0.0226	0		80 - 120
ANTIMONY	0.490	0.500	98 %	80 - 120
SELENIUM	0.537	0.500	107 %	80 - 120
SILICON	0.882	1.00	88 %	80 - 120
TIN	0.503	0.500	101 %	80 - 120
STRONTIUM	0.0076	0		80 - 120
TITANIUM	0.489	0.500	98 %	80 - 120
THALLIUM	0.456	0.500	91 %	80 - 120
VANADIUM	0.495	0.500	99 %	80 - 120
ZINC	0.929	1.00	93 %	80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/6/2014 1:58 AM
Analysis Time: 0158
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0001	0		80 - 120
ALUMINUM	452	500	90 %	80 - 120
ARSENIC	-0.0038	0		80 - 120
BORON	-0.0073	0		80 - 120
BARIUM	0.0022	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	470	500	94 %	80 - 120
CADMIUM	-0.0012	0		80 - 120
COBALT	0.0012	0		80 - 120
CHROMIUM	0.0016	0		80 - 120
COPPER	0.0039	0		80 - 120
IRON	189	200	94 %	80 - 120
POTASSIUM	0.0345	0		80 - 120
LITHIUM	0.0042	0		80 - 120
MAGNESIUM	481	500	96 %	80 - 120
MANGANESE	-0.0061	0		80 - 120
MOLYBDENUM	-0.0015	0		80 - 120
SODIUM	0.0451	0		80 - 120
NICKEL	-0.0172	0		80 - 120
LEAD	-0.0268	0		80 - 120
SULFUR	-0.0003	0		80 - 120
ANTIMONY	-0.0035	0		80 - 120
SELENIUM	0.0257	0		80 - 120
SILICON	-0.0032	0		80 - 120
TIN	0.0004	0		80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	-0.0057	0		80 - 120
THALLIUM	-0.0097	0		80 - 120
VANADIUM	0.0062	0		80 - 120
ZINC	0.0044	0		80 - 120

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
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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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
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: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
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

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
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: L729564
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP12 Method: ICP-AES Run Number: 110514ICP12A

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	1107	X	X	X	X	X	X	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	1112	X	X	X	X	X	X	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	1116		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	1120		X	X	X	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	1124			X	X	X	X		X	X	X	X	X		X		X	X	X			X		X	X	X		X	X	X	X
STD4 14J27630	1	1129	X			X				X				X			X				X				X		X					
STD5 14J08650	1	1133	X							X				X			X				X				X		X					
STD6 14I24985	1	1138	X							X				X			X				X				X		X					
ICV	1	1147	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
ICB	1	1152	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
ICVLL	1	1156	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
ICSA	1	1201	X	X	X	X	X	X	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	1205	X	X	X	X	X	X	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 WG750667	1	1214	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
LCS WG750667	1	1218	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
LCSD WG750667	1	1222	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729564-05 WG750667	5	1226	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729564-05SD WG750667	25	1231	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729564-05PS WG750667	5	1235	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729564-05MS WG750667	5	1239	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729564-05MSD WG750667	5	1244	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCV	1	1257	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCB	1	1301	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729564-01 WG750667	5	1319	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729564-02 WG750667	5	1323	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
L729564-04 WG750667	5	1328	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCV	1	1332	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCB	1	1336	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
CCVLL	1	1341	X	X	X	X	X		X		X	X	X		X			X		X		X		X							X	X
ICSA	1	1554	X	X	X	X	X	X	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	1558	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
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
CCVLL	1	1103																										X				
CCV	1	1201																										X				
CCB	1	1206																										X				
BLANK WG752045	1	1211																										X				
LCS WG752045	1	1216																										X				
LCSD WG752045	1	1221																										X				
L729563-01SD WG752045	25	1232																										X				
L729563-01MS WG752045	5	1237																										X				
L729563-01MSD WG752045	5	1242																										X				
CCV	1	1307																										X				
CCB	1	1312																										X				
L729564-01 WG752045	5	1322																										X				
L729564-02 WG752045	5	1327																										X				
L729564-04 WG752045	5	1332																										X				
L729564-05 WG752045	5	1338																										X				
CCV	1	1343																										X				
CCB	1	1351																										X				
CCVLL	1	1359																										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

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

Sample ID: CCVLL
Analysis Date: 11/04/14 13:59 Standard ID: 14J27641
Sequence: 73

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	mg/L	2640176	102.3363	102.3363	2.043732	102	60	140	2579903	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	mg/L	0.1030195	0.1030195	13.52798	103	1	200	0.10	0.9997953	
Y	ANTIMONY	mg/L	0.01836060	0.01836060	3.516483	92	1	200	0.02	0.9998648	
Y	ARSENIC	mg/L	0.01463177	0.01463177	9.101229	73	1	200	0.02	0.9998430	
Y	BARIUM	mg/L	0.005280813	0.005280813	3.242961	106	1	200	0.0050	0.9999891	
Y	BERYLLIUM	mg/L	0.001786709	0.001786709	2.244673	89	1	200	0.0020	0.9999586	
Y	BORON	mg/L	0.1766322	0.1766322	1.011740	88	1	200	0.20	0.9997433	
Y	CADMIUM	mg/L	0.004629868	0.004629868	5.682993	93	1	200	0.0050	0.9999878	
Y	CALCIUM	mg/L	0.4735772	0.4735772	0.7283634	95	1	200	0.50	0.9999435	
Y	CHROMIUM	mg/L	0.01086957	0.01086957	2.614831	109	1	200	0.01	0.9999257	
Y	COBALT	mg/L	0.01039713	0.01039713	3.779431	104	1	200	0.01	0.9999344	
Y	COPPER	mg/L	0.02015905	0.02015905	5.385974	101	1	200	0.02	0.9997609	
Y	IRON	mg/L	0.1055898	0.1055898	2.343035	106	1	200	0.10	0.9999107	
Y	LEAD	mg/L	-0.00004758313	-0.00004758313	4185.780	0	1	200	0.0050	0.9999747	NT
Y	LITHIUM	mg/L	0.01527598	0.01527598	7.942603	102	1	200	0.0150	0.9999723	
Y	MAGNESIUM	mg/L	0.1021465	0.1021465	3.696268	102	1	200	0.10	0.9999649	
Y	MANGANESE	mg/L	0.009824660	0.009824660	2.759250	98	1	200	0.01	0.9999864	
Y	MOLYBDENUM	mg/L	0.004659759	0.004659759	4.778863	93	1	200	0.0050	0.9999299	
Y	NICKEL	mg/L	0.01921558	0.01921558	9.858404	96	1	200	0.02	0.9999913	
Y	POTASSIUM	mg/L	0.5551718	0.5551718	2.776478	111	1	200	0.50	0.9998574	
Y	SELENIUM	mg/L	0.009587796	0.009587796	60.94652	48	1	200	0.02	0.9998500	
Y	SILICON	mg/L	0.1729351	0.1729351	4.346495	86	1	200	0.20	0.9999058	
Y	SILVER	mg/L	0.01176566	0.01176566	5.054717	118	1	200	0.01	0.9997992	
Y	SODIUM	mg/L	0.5626245	0.5626245	4.609950	113	1	200	0.50	0.9999972	
Y	STRONTIUM	mg/L	0.01009872	0.01009872	0.4451046	101	1	200	0.01	0.9999995	
Y	THALLIUM	mg/L	0.02036752	0.02036752	3.490951	102	1	200	0.02	0.9999938	
Y	TIN	mg/L	0.01878974	0.01878974	11.53198	94	1	200	0.02	0.9999081	
Y	TITANIUM	mg/L	0.01016392	0.01016392	2.703219	102	1	200	0.01	0.9999856	
Y	VANADIUM	mg/L	0.01002731	0.01002731	0.7483590	100	1	200	0.01	0.9999376	
Y	ZINC	mg/L	0.02998568	0.02998568	1.383719	100	1	200	0.03	0.9997910	

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: 11/05/14 11:56 Standard ID: 14G16199
Sequence: 12

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	9702.708	99.54188	99.54188	0.3437320	100	60	140	9747.362	
N	INDIUM	%	3629.765	100.9874	100.9874	0.1860588	101	60	140	3594.276	
N	YTTRIUM	%	6169.150	104.2804	104.2804	0.9807887	104	60	140	5915.922	
N	YTTRIUM	%	163234.9	101.7680	101.7680	0.05364697	102	60	140	160399.2	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	ppm	0.07447442	0.07447442	22.21878	74	50	150	0.10	0.9999972	
Y	ANTIMONY	ppm	0.02042535	0.02042535	4.046465	102	50	150	0.02	0.9999965	
Y	ARSENIC	ppm	0.02060802	0.02060802	5.286422	103	50	150	0.02	0.9998675	
Y	BARIUM	ppm	0.005412053	0.005412053	1.157166	108	50	150	0.0050	0.9999755	
Y	BERYLLIUM	ppm	0.001849161	0.001849161	4.178625	92	50	150	0.0020	0.9996143	
Y	BORON	ppm	0.1965841	0.1965841	1.824783	98	50	150	0.20	0.9998548	
Y	CADMIUM	ppm	0.005371965	0.005371965	1.430497	107	50	150	0.0050	0.9999980	
Y	CALCIUM	ppm	0.4908459	0.4908459	0.7644550	98	50	150	0.50	0.9999590	
Y	CHROMIUM	ppm	0.01017324	0.01017324	6.786791	102	50	150	0.01	0.9998468	
Y	COBALT	ppm	0.009215904	0.009215904	1.541064	92	50	150	0.01	0.9999906	
Y	COPPER	ppm	0.02192032	0.02192032	7.596137	110	50	150	0.02	0.9996926	
Y	IRON	ppm	0.1029923	0.1029923	1.282378	103	50	150	0.10	0.9999746	
Y	LEAD	ppm	0.004507502	0.004507502	8.438009	90	50	150	0.0050	0.9999957	
Y	LITHIUM	ppm	0.01575348	0.01575348	1.256921	105	50	150	0.0150	0.9996023	
Y	MAGNESIUM	ppm	0.08447179	0.08447179	17.41241	84	50	150	0.10	0.9999683	
Y	MANGANESE	ppm	0.01035645	0.01035645	0.1764914	104	50	150	0.01	0.9998360	
Y	MOLYBDENUM	ppm	0.005113404	0.005113404	1.115983	102	50	150	0.0050	0.9999110	
Y	NICKEL	ppm	0.01898082	0.01898082	1.455957	95	50	150	0.02	0.9999776	
Y	POTASSIUM	ppm	0.5039649	0.5039649	0.6390895	101	50	150	0.50	0.9999714	
Y	SELENIUM	ppm	0.02018509	0.02018509	5.068438	101	50	150	0.02	0.9999997	
Y	SILICON	ppm	0.1870903	0.1870903	0.5430090	94	50	150	0.20	0.9993633	
Y	SILVER	ppm	0.009609913	0.009609913	7.011969	96	50	150	0.01	0.9999954	
Y	SODIUM	ppm	0.5120702	0.5120702	0.7634592	102	50	150	0.50	0.9999848	
Y	STRONTIUM	ppm	0.01004572	0.01004572	0.4740556	100	50	150	0.01	0.9996697	
Y	SULFUR	ppm	4.646713	4.646713	0.3937690	465	50	150	1	0.9998971	NT
Y	THALLIUM	ppm	0.01948739	0.01948739	3.082181	97	50	150	0.02	0.9999877	
Y	TIN	ppm	0.01863770	0.01863770	4.751434	93	50	150	0.02	0.9998539	

Sample ID: ICVLL
Analysis Date: 11/05/14 11:56 Standard ID: 14G16199
Sequence: 12

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009724878	0.009724878	4.998719	97	50	150	0.01	0.9995971
Y	VANADIUM	ppm	0.009649941	0.009649941	16.54044	96	50	150	0.01	0.9995804
Y	ZINC	ppm	0.03037180	0.03037180	0.3713201	101	50	150	0.03	0.9999657

Sample ID: CCVLL
Analysis Date: 11/05/14 13:41 Standard ID: 14G16199
Sequence: 36

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	9701.478	99.52927	99.52927	0.5003589	100	60	140	9747.362	
N	INDIUM	%	3614.426	100.5606	100.5606	0.4204650	101	60	140	3594.276	
N	YTTRIUM	%	6062.017	102.4695	102.4695	0.3970595	102	60	140	5915.922	
N	YTTRIUM	%	161982.4	100.9870	100.9870	0.2433264	101	60	140	160399.2	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.07559862	0.07559862	20.76788	76	1	200	0.10	0.9999972
Y	ANTIMONY	ppm	0.01923451	0.01923451	10.50800	96	1	200	0.02	0.9999965
Y	ARSENIC	ppm	0.02116945	0.02116945	0.4105551	106	1	200	0.02	0.9998675
Y	BARIUM	ppm	0.005352870	0.005352870	1.467393	107	1	200	0.0050	0.9999755
Y	BERYLLIUM	ppm	0.002077014	0.002077014	2.859686	104	1	200	0.0020	0.9996143
Y	BORON	ppm	0.2035203	0.2035203	4.647377	102	1	200	0.20	0.9998548
Y	CADMIUM	ppm	0.005359487	0.005359487	2.023568	107	1	200	0.0050	0.9999980
Y	CALCIUM	ppm	0.5063625	0.5063625	0.7956955	101	1	200	0.50	0.9999590
Y	CHROMIUM	ppm	0.01038382	0.01038382	5.583256	104	1	200	0.01	0.9998468
Y	COBALT	ppm	0.009320688	0.009320688	1.134249	93	1	200	0.01	0.9999906
Y	COPPER	ppm	0.02211324	0.02211324	1.195300	111	1	200	0.02	0.9996926
Y	IRON	ppm	0.1062634	0.1062634	2.116034	106	1	200	0.10	0.9999746
Y	LEAD	ppm	0.004491398	0.004491398	13.86962	90	1	200	0.0050	0.9999957
Y	LITHIUM	ppm	0.01528015	0.01528015	2.471582	102	1	200	0.0150	0.9996023
Y	MAGNESIUM	ppm	0.09098839	0.09098839	29.38769	91	1	200	0.10	0.9999683
Y	MANGANESE	ppm	0.01043042	0.01043042	0.7747950	104	1	200	0.01	0.9998360
Y	MOLYBDENUM	ppm	0.005256054	0.005256054	1.536903	105	1	200	0.0050	0.9999110
Y	NICKEL	ppm	0.01952976	0.01952976	1.606334	98	1	200	0.02	0.9999776
Y	POTASSIUM	ppm	0.5240958	0.5240958	4.956754	105	1	200	0.50	0.9999714
Y	SELENIUM	ppm	0.01905139	0.01905139	9.069407	95	1	200	0.02	0.9999997
Y	SILICON	ppm	0.1849248	0.1849248	0.3832589	92	1	200	0.20	0.9993633
Y	SILVER	ppm	0.009622193	0.009622193	7.720739	96	1	200	0.01	0.9999954
Y	SODIUM	ppm	0.5142544	0.5142544	0.5636594	103	1	200	0.50	0.9999848
Y	STRONTIUM	ppm	0.01015986	0.01015986	1.347605	102	1	200	0.01	0.9996697
N	SULFUR	ppm	4.688286	4.688286	0.3368176	469			1	0.9998971
Y	THALLIUM	ppm	0.01952569	0.01952569	1.265146	98	1	200	0.02	0.9999877
Y	TIN	ppm	0.01870291	0.01870291	1.638902	94	1	200	0.02	0.9998539

Sample ID: CCVLL
Analysis Date: 11/05/14 13:41 Standard ID: 14G16199
Sequence: 36

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009554060	0.009554060	6.884337	96	1	200	0.01	0.9995971
Y	VANADIUM	ppm	0.008093490	0.008093490	12.47666	81	1	200	0.01	0.9995804
Y	ZINC	ppm	0.03119579	0.03119579	0.4344345	104	1	200	0.03	0.9999657

Raw Data

3050B Soils
ESC Lab Sciences

Method: 3050B SOP:340388 R.13

1:1 HNO3 Standard ID:	(none)	**Vol. Used:**	5 mL	**Workgroup:**	WG750667
HNO3 Standard ID:	14J24505	**Vol. Used:**	2.5 mL	**Date:**	10/27/2014
H2O2 Standard ID:	14I11318	**Vol. Used:**	1.5 mL	**Prep Analyst:**	646 JN
HCL Standard ID:	14J02360	**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:**	10/28/14 13:50
LCS Standard ID:	14J24526	**Mass Used:**	1.0 g	**Start Analyst:**	638
Digestion Vessel Standard ID:	ESC30376			**Stop Date & Time:**	10/28/14 20:16
				Stop Analyst:	681
Spike Pipetter ID:	H07621302			**Temperature:**	93
					(must be maintained between 90-95 C)

Pos.		Sample Number	Mass (g)	Final Volume (mL)	Sample Description Color	Sample Description Type	Comments
1		**BLANK**	0.52	50	White	Teflon Chips	
2		**LCS**	0.50	50	Brown	Soil LCS	
3		**LCSD**	0.51	50	Brown	Soil LCS	
4	1.	**L729564-05**	0.53	50	Brown	Dirt	
5	1.	**MS L729564-05**	0.55	50	Brown	Dirt	
6	1.	**MSD L729564-05**	0.46	50	Brown	Dirt	
7	2.	**L729509-01**	0.46	50	Brown	Sand	
8	3.	**L729509-03**	0.49	50	Brown	Sand	
9	4.	**L729509-04**	0.52	50	Brown	Sand	
10	5.	**L729521-01**	0.49	50	Brown	Dirt	
11	6.	**L729521-03**	0.51	50	Brown	Dirt	
12	7.	**L729525-01**	2.53	50	Black	Cake Sludge	
13	8.	**L729528-48**	0.51	50	Brown	Dirt	
14	9.	**L729536-01**	0.51	50	Multicolored	Rocks	
15	10.	**L729536-02**	0.53	50	Brown	Dirt	
16	11.	**L729536-03**	0.53	50	Brown	Dirt	
17	12.	**L729536-04**	0.49	50	Brown	Dirt	

18	13.	**L729563-01**	0.48	50	Brown	Dirt	
19	14.	**L729563-02**	0.54	50	Brown	Dirt	
20	15.	**L729563-04**	0.49	50	Brown	Dirt	
21	16.	**L729563-05**	0.49	50	Brown	Dirt	
22	17.	**L729563-06**	0.53	50	Brown	Dirt	
23	18.	**L729564-01**	0.48	50	Brown	Dirt	
24	19.	**L729564-02**	0.47	50	Brown	Dirt	
25	20.	**L729564-04**	0.49	50	Brown	Dirt	
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35							

Reviewed By: **Analyst:** 388JG

Additional Remarks: **Date:** 11/5/2014

3051 Soils
ESC Lab Sciences

Method: 3051 SOP:340388 R.13

HNO3 Standard ID:	14J30879	**Vol. Used:**	4.5 mL	**Workgroup:**	WG752045
HCl Standard ID:	14J02360	**Vol. Used:**	1.5 mL	**Date:**	10/31/2014
Matrix Spike Standard ID:	14J22403	**Vol. Used:**	0.5 mL	**Analyst:**	681
Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.5 mL	**Balance ID:**	1128150150
LCS Standard ID:	14J31922	**Mass Used:**	0.5 g	**Tray ID:**	6
				Microwave ID	MD9972
Spike Pipetter ID:	H07621302			**Digest Date &Time:**	10/31/14 20:46

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**	0.50	50	136.36	136.29	White	Teflon Chips	
2		**LCS**	0.50	50	140.86	140.27	Brown	Soil LCS	
3		**LCSD**	0.50	50	140.51	140.45	Brown	Soil LCS	
4	1.	**L729563-01**	0.51	50	140.37	140.20	Brown	Soil LCS	
5	1.	**MS L729563-01**	0.51	50	137.85	137.53	Brown	Dirt	
6	1.	**MSD L729563-01**	0.50	50	137.74	137.69	Brown	Dirt	
7	2.	**L729563-02**	0.51	50	137.02	136.91	Brown	Dirt	
8	3.	**L729563-04**	0.49	50	137.09	136.63	Brown	Dirt	
9	4.	**L729563-05**	0.50	50	136.50	135.94	Brown	Dirt	
10	5.	**L729563-06**	0.49	50	136.44	135.97	Brown	Dirt	
11	6.	**L729564-01**	0.49	50	137.08	136.92	Brown	Dirt	
12	7.	**L729564-02**	0.49	50	136.15	135.85	Brown	Dirt	
13	8.	**L729564-04**	0.51	50	138.42	137.98	Brown	Dirt	
14	9.	**L729564-05**	0.48	50	141.24	140.89	Brown	Dirt	
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35								
36								

Reviewed By:

Analyst: 388JG

Date: 11/3/2014

Additional Remarks:

Comprehensive sample report

11/6/2014 7:56:27 AM

LabBook 110514ICP12A.imexp

Instrument esc icp 12
Serial number IC74DC141801

LabBook summary

Acquired by icp12 Date 11/5/2014 10:20:24 PM
Last changed by icp12 Date 11/6/2014 7:51:43 AM

Configuration iCAP 7000 ASX520
Template DAILY CALIBRATION
Evaluation eQuant
Number of samples 183
Number of results 183

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

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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	6	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	6	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	6	2
S	182.034 {485}	212.22	318.33	13	5	7	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	6	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

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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

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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

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	STD3 14J06521	STD4 14J27630	STD5 14J08650
As 189.042 {478} (Axial)	2.000 ppm		
Ba 233.527 {445} (Axial)	2.000 ppm	10.000 ppm	
Mo 202.030 {467} (Axial)	2.000 ppm		
S 182.034 {485} (Axial)	2.000 ppm	10.000 ppm	50.000 ppm
Si 251.611 {134} (Axial)	2.000 ppm		
Sb 206.833 {463} (Axial)			
Se 196.090 {472} (Axial)			
Ag 328.068 {103} (Axial)			
Cr 267.716 {126} (Axial)	2.000 ppm		
Mn 257.610 {131} (Axial)	2.000 ppm		
Na 818.326 {41} (Radial)		10.000 ppm	250.000 ppm
Zn 206.200 {463} (Axial)	2.000 ppm		
Cd 228.802 {447} (Axial)			
Cu 324.754 {104} (Radial)	2.000 ppm		

	STD6 14I24985	STD1 14G16199	STD7 14J27631
Al 308.215 {109} (Radial)	500.000 ppm	0.100 ppm	
B 249.678 {135} (Radial)		0.200 ppm	0.500 ppm
Be 313.042 {108} (Radial)		0.002 ppm	0.500 ppm
Ca 317.933 {106} (Radial)		0.500 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	500.000 ppm		
Fe 259.940 {130} (Radial)		0.100 ppm	
Fe 271.441 {124} (Radial)	200.000 ppm		
K 766.490 {44} (Radial)	100.000 ppm	0.500 ppm	
Li 670.784 {50} (Radial)		0.015 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	500.000 ppm	0.100 ppm	
Na 589.592 {57} (Radial)		0.500 ppm	0.500 ppm
Sr 421.552 {80} (Radial)		0.010 ppm	0.500 ppm
Ti 334.941 {101} (Radial)		0.010 ppm	0.500 ppm
V 292.402 {115} (Radial)		0.010 ppm	0.500 ppm
Co 228.616 {447} (Axial)		0.010 ppm	0.500 ppm
Ni 231.604 {446} (Axial)		0.020 ppm	0.500 ppm
Pb 220.353 {453} (Axial)		0.005 ppm	0.500 ppm
Sn 189.989 {478} (Axial)		0.020 ppm	0.500 ppm
Tl 190.856 {477} (Axial)		0.020 ppm	0.500 ppm
As 189.042 {478} (Axial)		0.010 ppm	0.500 ppm
Ba 233.527 {445} (Axial)		0.005 ppm	
Mo 202.030 {467} (Axial)		0.005 ppm	
S 182.034 {485} (Axial)	100.000 ppm	5.000 ppm	
Si 251.611 {134} (Axial)		0.200 ppm	0.500 ppm
Sb 206.833 {463} (Axial)		0.020 ppm	0.500 ppm
Se 196.090 {472} (Axial)		0.020 ppm	0.500 ppm
Ag 328.068 {103} (Axial)		0.010 ppm	0.500 ppm
Cr 267.716 {126} (Axial)		0.010 ppm	0.500 ppm
Mn 257.610 {131} (Axial)		0.010 ppm	0.500 ppm
Na 818.326 {41} (Radial)	500.000 ppm		
Zn 206.200 {463} (Axial)		0.030 ppm	0.500 ppm
Cd 228.802 {447} (Axial)		0.005 ppm	0.500 ppm
Cu 324.754 {104} (Radial)		0.020 ppm	0.500 ppm

	STD2 14J08649	STD3 14J06521	STD4 14J27630
Al 308.215 {109} (Radial)			10.000 ppm
B 249.678 {135} (Radial)	1.000 ppm	2.000 ppm	
Be 313.042 {108} (Radial)	1.000 ppm	2.000 ppm	
Ca 317.933 {106} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm

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	STD2 14J08649	STD3 14J06521	STD4 14J27630
Ca 373.690 {90} (Radial)			10.000 ppm
Fe 259.940 {130} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm
Fe 271.441 {124} (Radial)			10.000 ppm
K 766.490 {44} (Radial)			10.000 ppm
Li 670.784 {50} (Radial)	1.000 ppm	2.000 ppm	
Mg 279.079 {121} (Radial)			10.000 ppm
Na 589.592 {57} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm
Sr 421.552 {80} (Radial)	1.000 ppm	2.000 ppm	
Ti 334.941 {101} (Radial)	1.000 ppm	2.000 ppm	
V 292.402 {115} (Radial)	1.000 ppm	2.000 ppm	
Co 228.616 {447} (Axial)	1.000 ppm	2.000 ppm	
Ni 231.604 {446} (Axial)	1.000 ppm	2.000 ppm	
Pb 220.353 {453} (Axial)	1.000 ppm		
Sn 189.989 {478} (Axial)	1.000 ppm	2.000 ppm	
Tl 190.856 {477} (Axial)	1.000 ppm		
As 189.042 {478} (Axial)	1.000 ppm	2.000 ppm	
Ba 233.527 {445} (Axial)	1.000 ppm	2.000 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	1.000 ppm	2.000 ppm	
S 182.034 {485} (Axial)	1.000 ppm	2.000 ppm	10.000 ppm
Si 251.611 {134} (Axial)	1.000 ppm	2.000 ppm	
Sb 206.833 {463} (Axial)	1.000 ppm		
Se 196.090 {472} (Axial)	1.000 ppm		
Ag 328.068 {103} (Axial)	1.000 ppm		
Cr 267.716 {126} (Axial)	1.000 ppm	2.000 ppm	
Mn 257.610 {131} (Axial)	1.000 ppm	2.000 ppm	
Na 818.326 {41} (Radial)			10.000 ppm
Zn 206.200 {463} (Axial)	1.000 ppm	2.000 ppm	
Cd 228.802 {447} (Axial)	1.000 ppm		
Cu 324.754 {104} (Radial)	1.000 ppm	2.000 ppm	

	STD5 14J08650	STD6 14I24985
Al 308.215 {109} (Radial)	250.000 ppm	500.000 ppm
B 249.678 {135} (Radial)		
Be 313.042 {108} (Radial)		
Ca 317.933 {106} (Radial)		
Ca 373.690 {90} (Radial)	250.000 ppm	500.000 ppm
Fe 259.940 {130} (Radial)		
Fe 271.441 {124} (Radial)	100.000 ppm	200.000 ppm
K 766.490 {44} (Radial)	50.000 ppm	100.000 ppm
Li 670.784 {50} (Radial)		
Mg 279.079 {121} (Radial)	250.000 ppm	500.000 ppm
Na 589.592 {57} (Radial)		
Sr 421.552 {80} (Radial)		
Ti 334.941 {101} (Radial)		
V 292.402 {115} (Radial)		
Co 228.616 {447} (Axial)		
Ni 231.604 {446} (Axial)		
Pb 220.353 {453} (Axial)		
Sn 189.989 {478} (Axial)		
Tl 190.856 {477} (Axial)		
As 189.042 {478} (Axial)		
Ba 233.527 {445} (Axial)		
Mo 202.030 {467} (Axial)		
S 182.034 {485} (Axial)	50.000 ppm	100.000 ppm
Si 251.611 {134} (Axial)		

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	STD5 14J08650	STD6 14I24985
Sb 206.833 {463} (Axial)		
Se 196.090 {472} (Axial)		
Ag 328.068 {103} (Axial)		
Cr 267.716 {126} (Axial)		
Mn 257.610 {131} (Axial)		
Na 818.326 {41} (Radial)	250.000 ppm	500.000 ppm
Zn 206.200 {463} (Axial)		
Cd 228.802 {447} (Axial)		
Cu 324.754 {104} (Radial)		

Symbol	Wavelength (nm) / Order	Fit Type	Weighting	Forcing
Al	308.215 {109}	Linear	None	Blank
B	249.678 {135}	Linear	None	Blank
Be	313.042 {108}	Linear	None	Blank
Ca	317.933 {106}	Linear	None	Blank
Ca	373.690 {90}	Linear	None	Blank
Fe	259.940 {130}	Linear	None	Blank
Fe	271.441 {124}	Linear	None	Blank
K	766.490 {44}	Linear	None	Blank
Li	670.784 {50}	Linear	None	Blank
Mg	279.079 {121}	Linear	None	Blank
Na	589.592 {57}	Linear	None	Blank
Sr	421.552 {80}	Linear	None	Blank
Ti	334.941 {101}	Linear	None	Blank
V	292.402 {115}	Linear	None	Blank
Co	228.616 {447}	Linear	None	Blank
Ni	231.604 {446}	Linear	None	Blank
Pb	220.353 {453}	Linear	None	Blank
Sn	189.989 {478}	Linear	None	Blank
Tl	190.856 {477}	Linear	None	Blank
As	189.042 {478}	Linear	None	Blank
Ba	233.527 {445}	Linear	None	Blank
Mo	202.030 {467}	Linear	None	Blank
S	182.034 {485}	Linear	None	Blank
Si	251.611 {134}	Linear	None	Blank
Sb	206.833 {463}	Linear	None	Blank
Se	196.090 {472}	Linear	None	Blank
Ag	328.068 {103}	Linear	None	Blank
Cr	267.716 {126}	Linear	None	Blank
Mn	257.610 {131}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Y	224.306 {450}	Linear	None	Blank
In	230.606 {446}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Na	818.326 {41}	Linear	None	Blank
Zn	206.200 {463}	Linear	None	Blank
Cd	228.802 {447}	Linear	None	Blank
Cu	324.754 {104}	Linear	None	Blank

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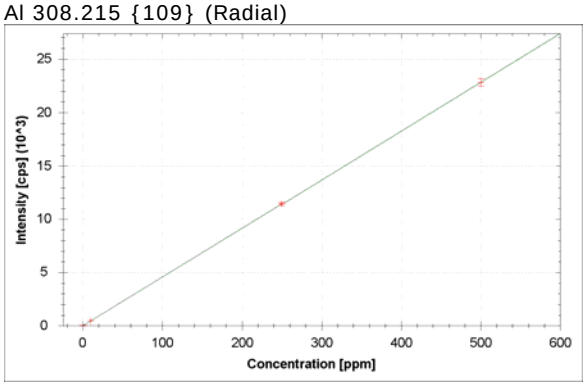
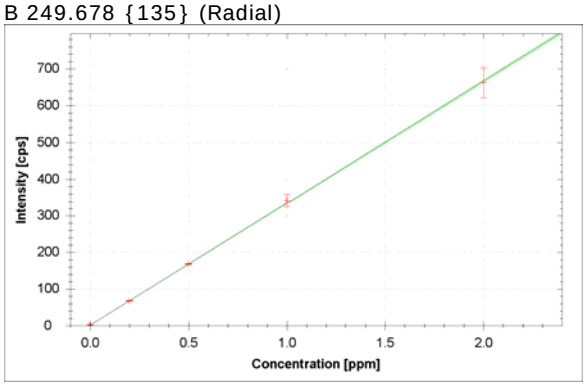
Al 308.215 {109} (Radial)



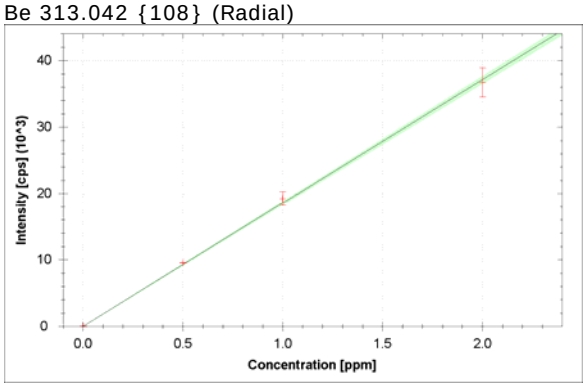
f(x) = 45.6553*x + 5.2036
R^2 = 1.0000
BEC = 0.114 ppm
LoD = 0.1235 ppm

B 249.678 {135} (Radial)



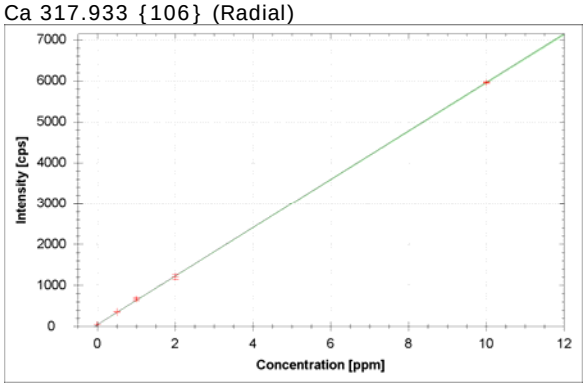
f(x) = 332.5942*x + 1.5138
R^2 = 0.9997
BEC = 0.005 ppm
LoD = 0.0190 ppm

Be 313.042 {108} (Radial)



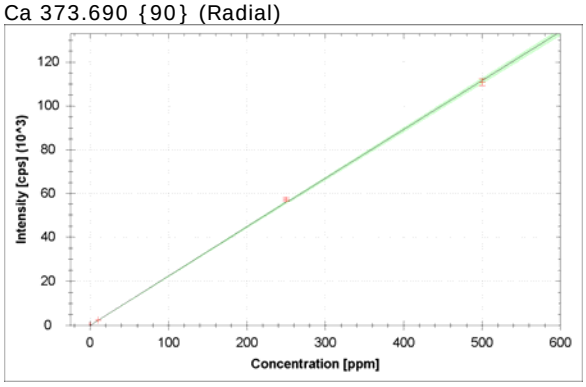
f(x) = 18544.9982*x + 0.0595
R^2 = 0.9992
BEC = 0.000 ppm
LoD = 0.0004 ppm

Ca 317.933 {106} (Radial)



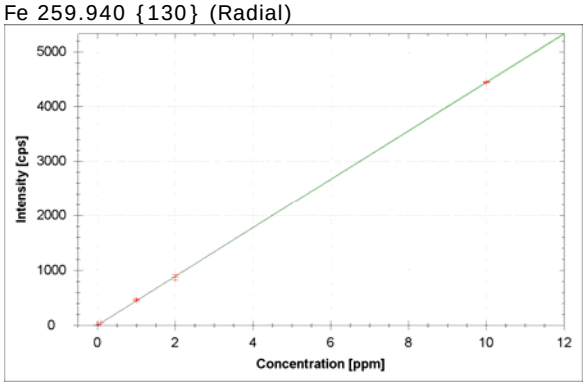
f(x) = 591.4031*x + 43.6922
R^2 = 0.9999
BEC = 0.074 ppm
LoD = 0.0081 ppm

Ca 373.690 {90} (Radial)



f(x) = 222.9473*x + 10.2463
R^2 = 0.9997
BEC = 0.046 ppm
LoD = 0.0068 ppm

Fe 259.940 {130} (Radial)



f(x) = 444.0472*x + 2.1321
R^2 = 0.9999
BEC = 0.005 ppm
LoD = 0.0042 ppm

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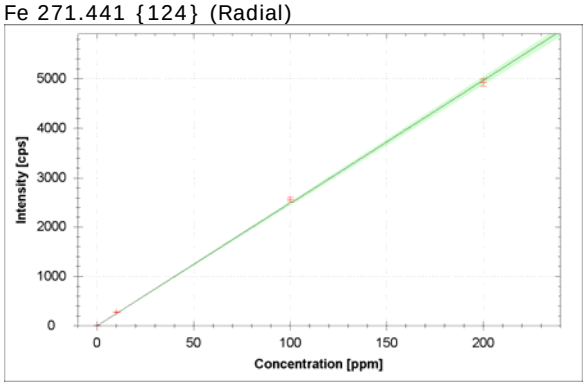
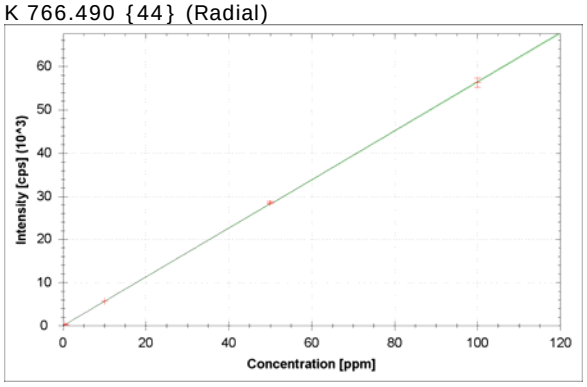
Fe 271.441 {124} (Radial)



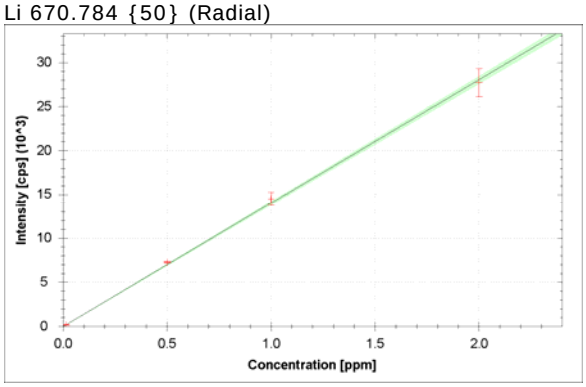
f(x) = 24.8134*x + 1.0716
R^2 = 0.9994
BEC = 0.043 ppm
LoD = 0.1136 ppm

K 766.490 {44} (Radial)



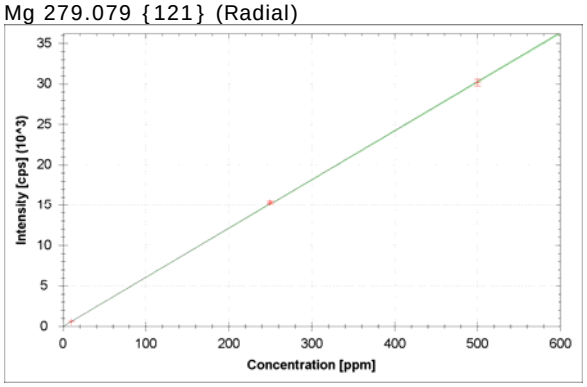
f(x) = 564.2798*x + -0.1806
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0166 ppm

Li 670.784 {50} (Radial)



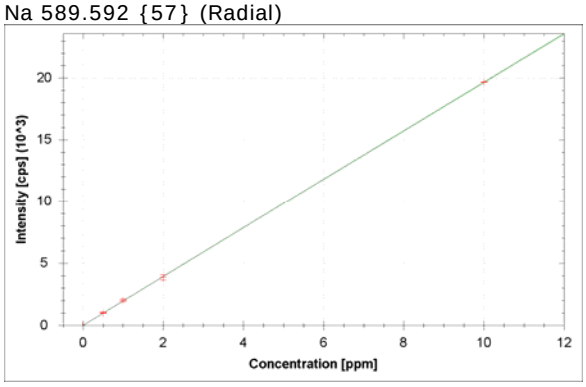
f(x) = 14038.3092*x + -25.5482
R^2 = 0.9992
BEC = -0.002 ppm
LoD = 0.0005 ppm

Mg 279.079 {121} (Radial)



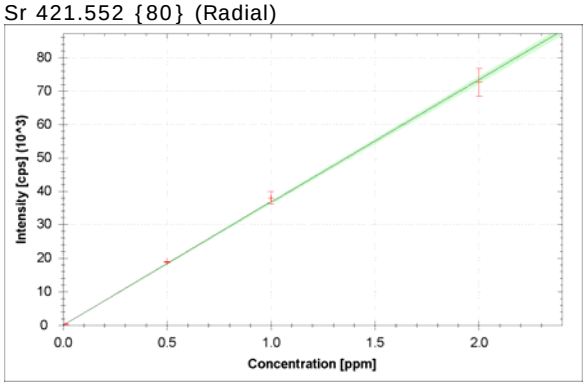
f(x) = 60.5342*x + -0.3815
R^2 = 0.9999
BEC = -0.006 ppm
LoD = 0.0844 ppm

Na 589.592 {57} (Radial)



f(x) = 1964.2955*x + 0.2116
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0080 ppm

Sr 421.552 {80} (Radial)



f(x) = 36700.6312*x + -0.8400
R^2 = 0.9993
BEC = 0.000 ppm
LoD = 0.0004 ppm

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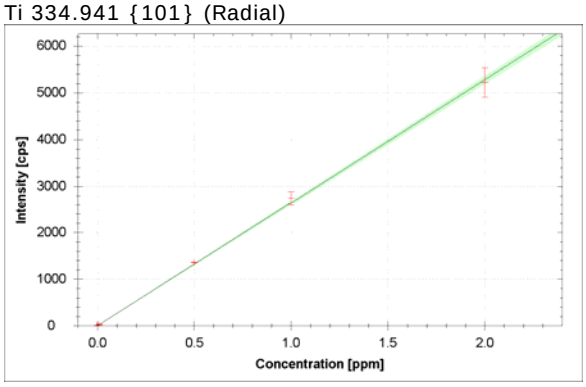
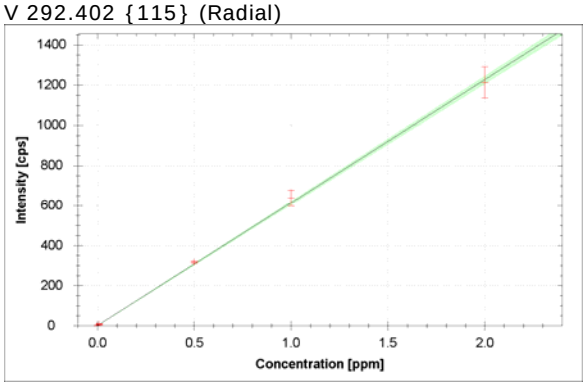
Ti 334.941 {101} (Radial)



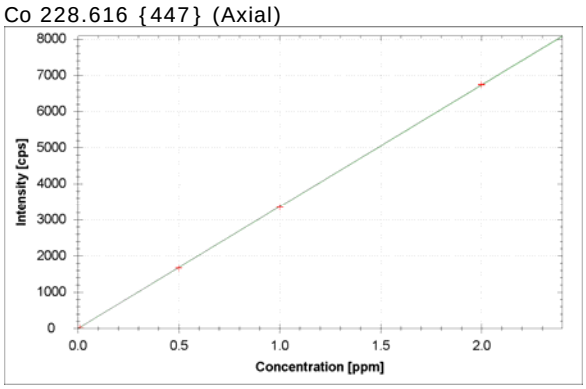
f(x) = 2639.2094*x + 0.5589
R^2 = 0.9992
BEC = 0.000 ppm
LoD = 0.0034 ppm

V 292.402 {115} (Radial)



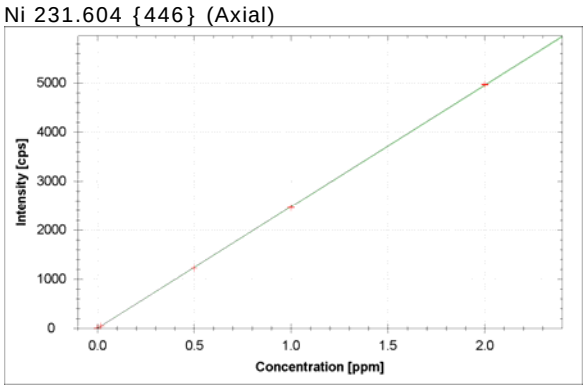
f(x) = 613.0460*x + 0.5994
R^2 = 0.9992
BEC = 0.001 ppm
LoD = 0.0017 ppm

Co 228.616 {447} (Axial)



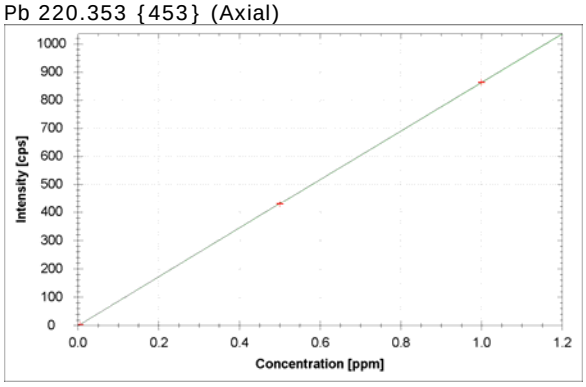
f(x) = 3365.7313*x + -0.5411
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Ni 231.604 {446} (Axial)



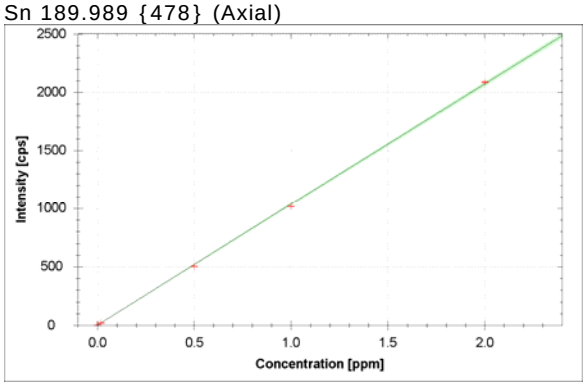
f(x) = 2476.6519*x + 1.1959
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0008 ppm

Pb 220.353 {453} (Axial)



f(x) = 863.7984*x + -1.2819
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0023 ppm

Sn 189.989 {478} (Axial)



f(x) = 1035.1981*x + 1.5529
R^2 = 0.9997
BEC = 0.002 ppm
LoD = 0.0002 ppm

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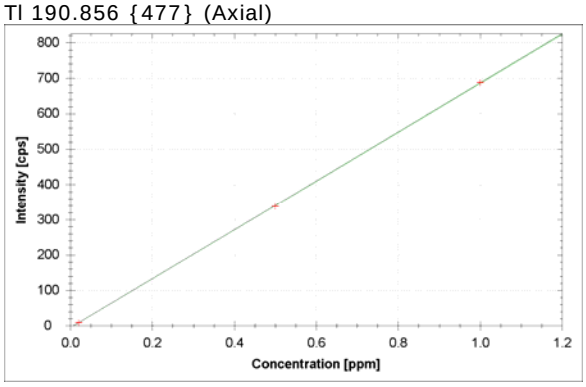
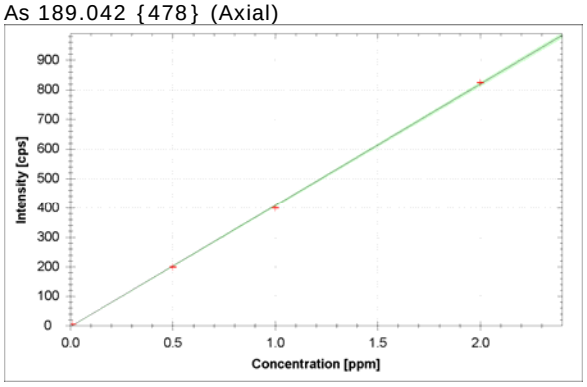
Tl 190.856 {477} (Axial)



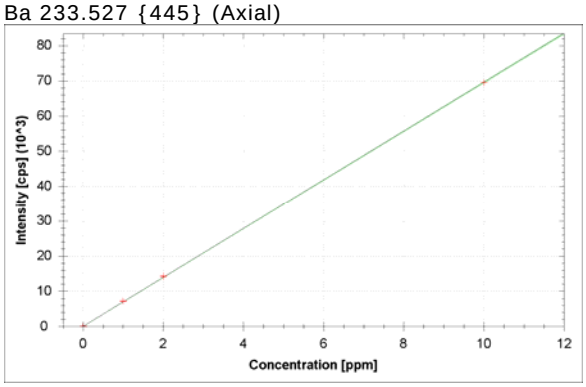
f(x) = 691.6479*x + -5.1000
R^2 = 1.0000
BEC = -0.007 ppm
LoD = 0.0029 ppm

As 189.042 {478} (Axial)



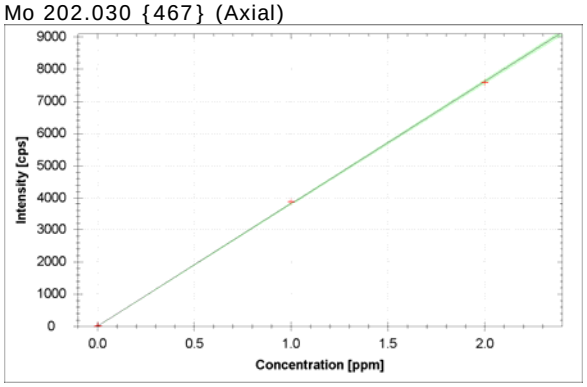
f(x) = 411.1440*x + -2.9751
R^2 = 0.9997
BEC = -0.007 ppm
LoD = 0.0050 ppm

Ba 233.527 {445} (Axial)



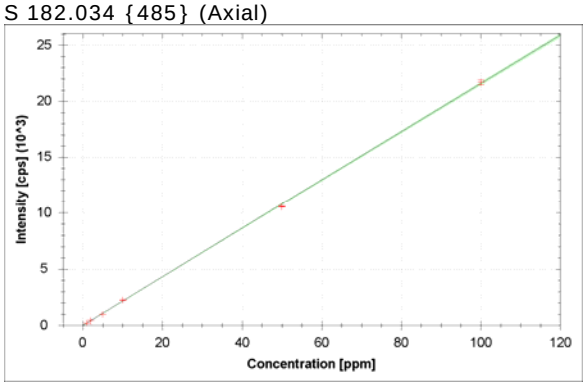
f(x) = 6958.3659*x + 1.3261
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0000 ppm

Mo 202.030 {467} (Axial)



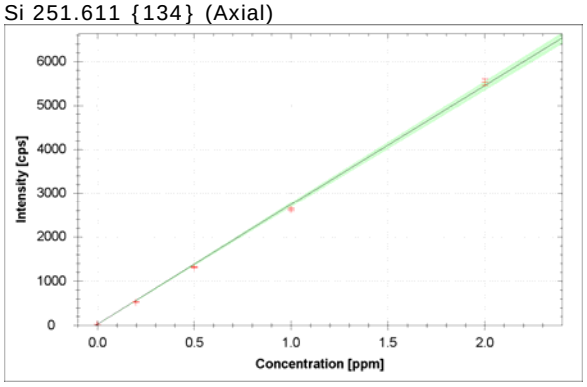
f(x) = 3807.1791*x + 2.5497
R^2 = 0.9998
BEC = 0.001 ppm
LoD = 0.0005 ppm

S 182.034 {485} (Axial)



f(x) = 215.7884*x + 2.2344
R^2 = 0.9998
BEC = 0.010 ppm
LoD = 0.0046 ppm

Si 251.611 {134} (Axial)



f(x) = 2713.7573*x + 24.3692
R^2 = 0.9987
BEC = 0.009 ppm
LoD = 0.0028 ppm

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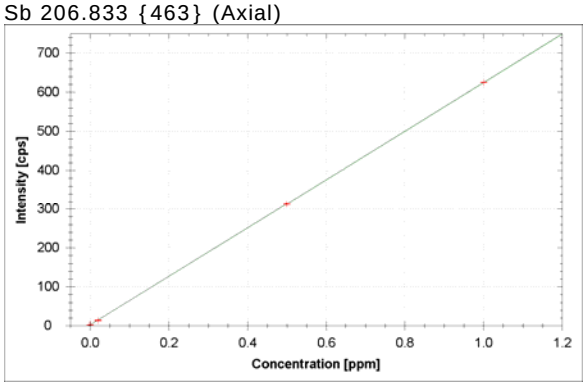
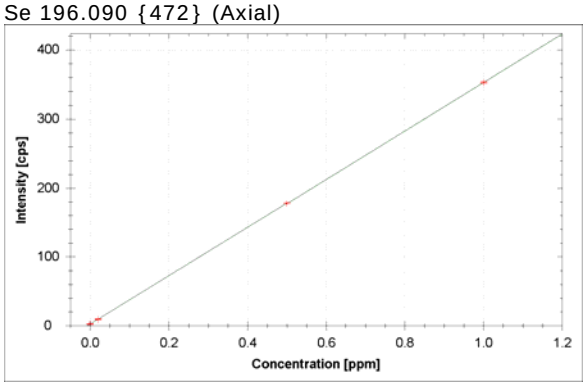
Sb 206.833 {463} (Axial)



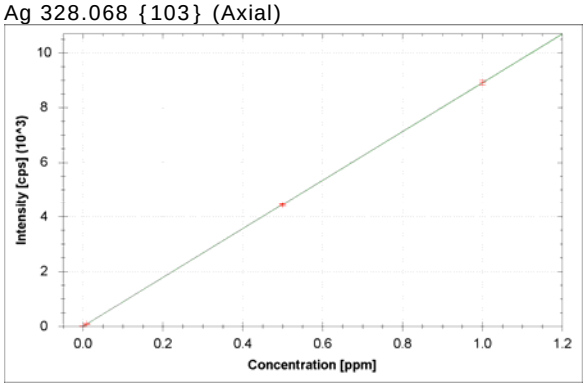
f(x) = 622.1611*x + 2.3794
R^2 = 1.0000
BEC = 0.004 ppm
LoD = 0.0013 ppm

Se 196.090 {472} (Axial)



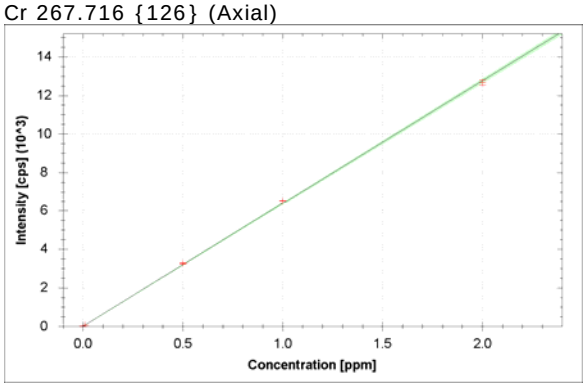
f(x) = 350.2958*x + 2.4410
R^2 = 1.0000
BEC = 0.007 ppm
LoD = 0.0057 ppm

Ag 328.068 {103} (Axial)



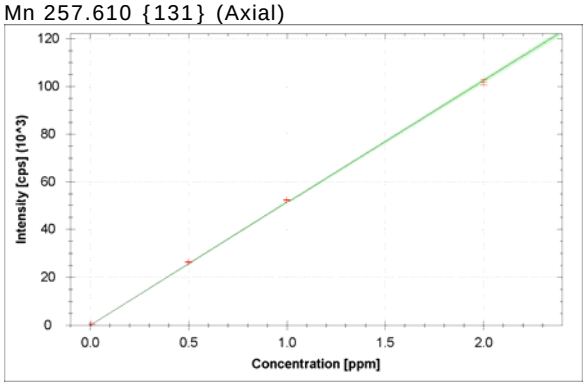
f(x) = 8901.4184*x + 1.4618
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0016 ppm

Cr 267.716 {126} (Axial)



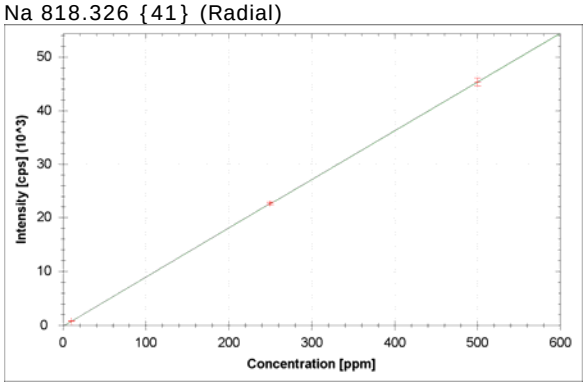
f(x) = 6375.4496*x + 6.7537
R^2 = 0.9997
BEC = 0.001 ppm
LoD = 0.0004 ppm

Mn 257.610 {131} (Axial)



f(x) = 51243.7464*x + 4.4782
R^2 = 0.9997
BEC = 0.000 ppm
LoD = 0.0001 ppm

Na 818.326 {41} (Radial)



f(x) = 90.9871*x + -160.4317
R^2 = 1.0000
BEC = -1.763 ppm
LoD = 0.1816 ppm

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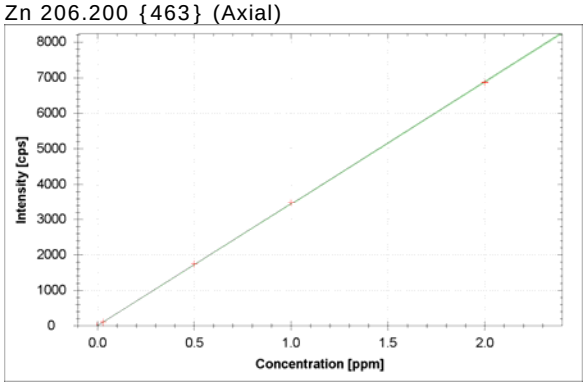
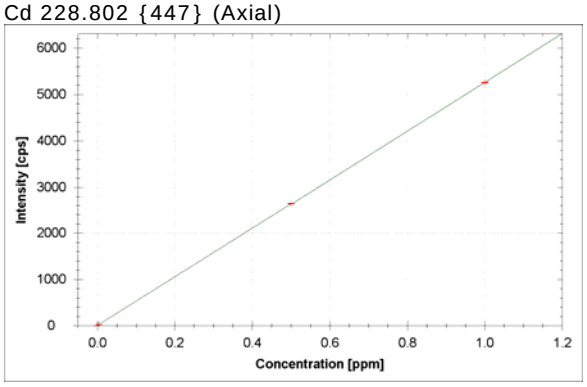
Zn 206.200 {463} (Axial)



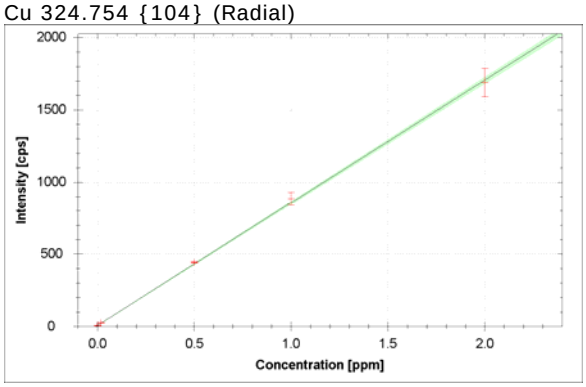
f(x) = 3441.5742*x + 0.4423
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Cd 228.802 {447} (Axial)



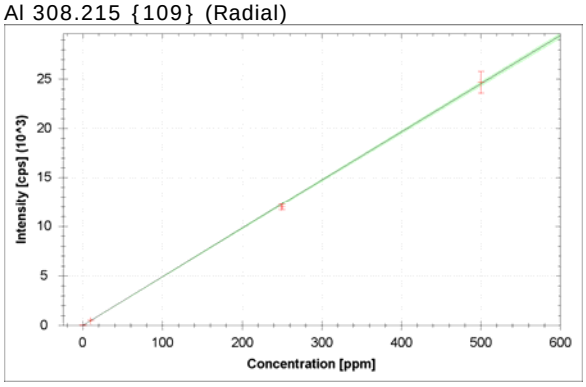
f(x) = 5254.8019*x + 5.4303
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0005 ppm

Cu 324.754 {104} (Radial)



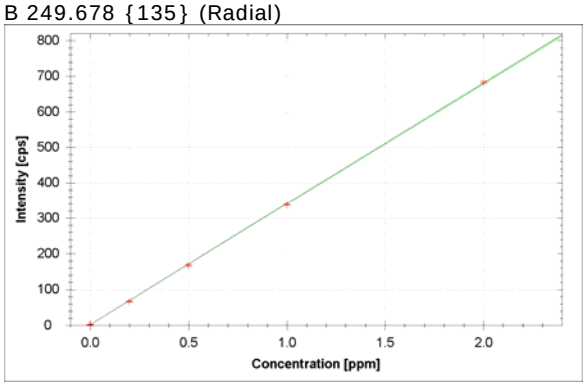
f(x) = 849.8051*x + 5.8329
R^2 = 0.9994
BEC = 0.007 ppm
LoD = 0.0018 ppm

Al 308.215 {109} (Radial)



f(x) = 49.0558*x + 5.3544
R^2 = 0.9997
BEC = 0.109 ppm
LoD = 0.0851 ppm

B 249.678 {135} (Radial)



f(x) = 339.1171*x + 1.8469
R^2 = 0.9999
BEC = 0.005 ppm
LoD = 0.0098 ppm

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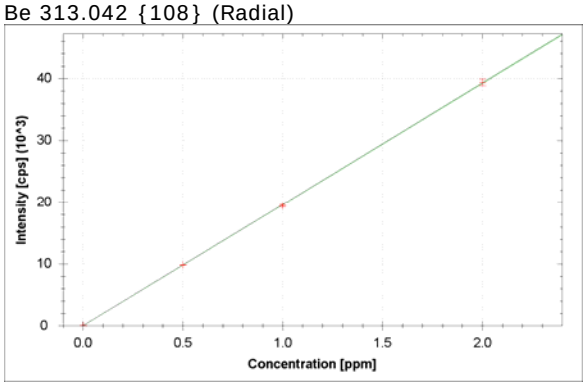
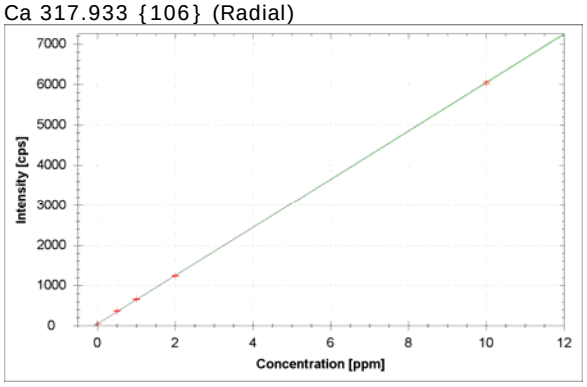
Be 313.042 {108} (Radial)



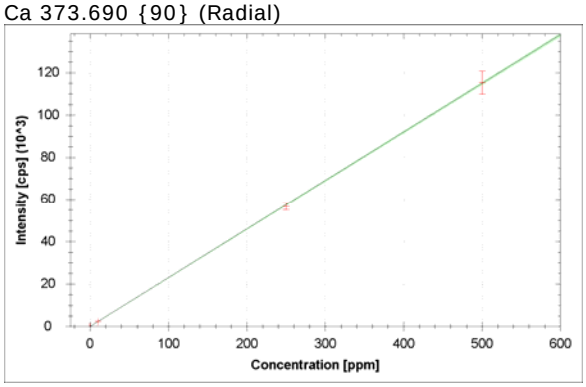
f(x) = 19620.4673*x + 0.1718
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Ca 317.933 {106} (Radial)



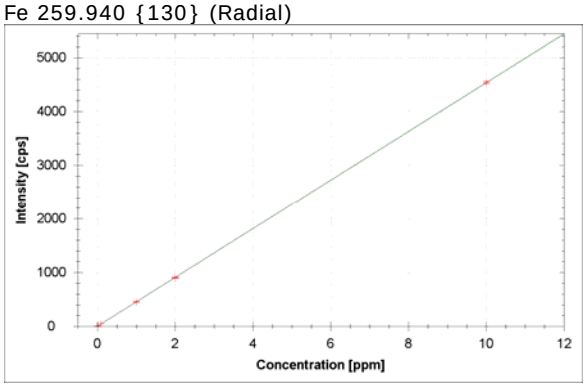
f(x) = 600.4260*x + 45.6614
R^2 = 1.0000
BEC = 0.076 ppm
LoD = 0.0107 ppm

Ca 373.690 {90} (Radial)



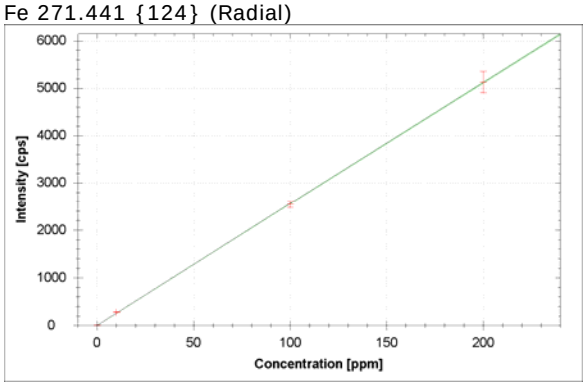
f(x) = 229.8651*x + 9.2707
R^2 = 0.9999
BEC = 0.040 ppm
LoD = 0.0248 ppm

Fe 259.940 {130} (Radial)



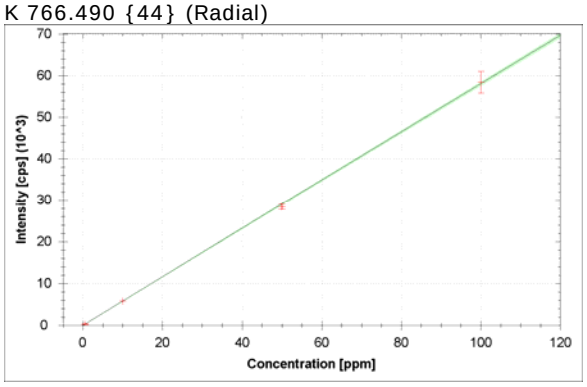
f(x) = 453.3613*x + 2.2181
R^2 = 1.0000
BEC = 0.005 ppm
LoD = 0.0050 ppm

Fe 271.441 {124} (Radial)



f(x) = 25.5832*x + 0.9639
R^2 = 1.0000
BEC = 0.038 ppm
LoD = 0.1414 ppm

K 766.490 {44} (Radial)



f(x) = 580.7886*x + 6.0341
R^2 = 0.9998
BEC = 0.010 ppm
LoD = 0.0209 ppm

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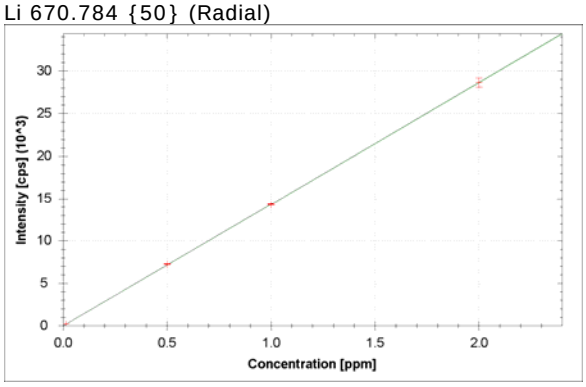
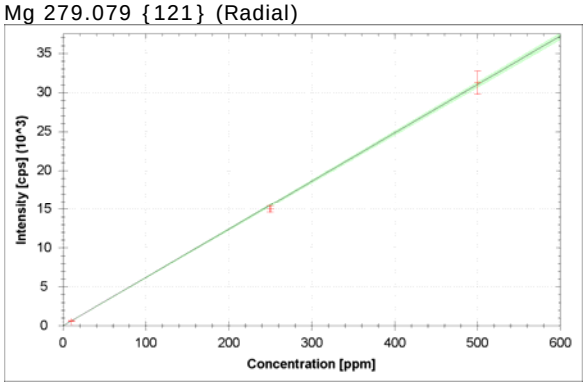
Li 670.784 {50} (Radial)



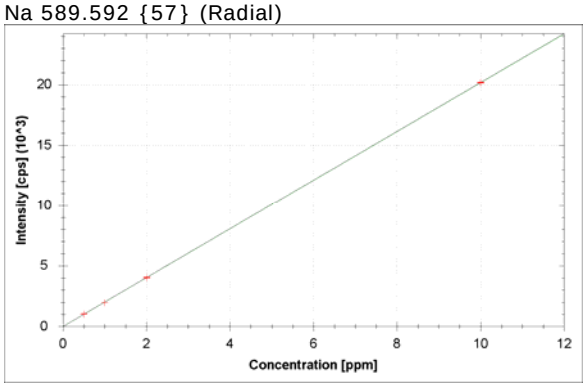
f(x) = 14334.8622*x + -23.5871
R^2 = 1.0000
BEC = -0.002 ppm
LoD = 0.0010 ppm

Mg 279.079 {121} (Radial)



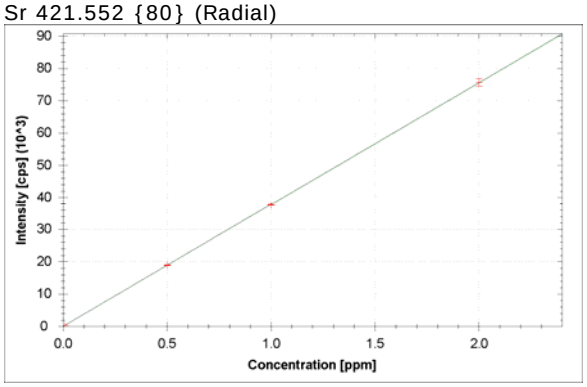
f(x) = 62.0194*x + -0.2474
R^2 = 0.9996
BEC = -0.004 ppm
LoD = 0.0527 ppm

Na 589.592 {57} (Radial)



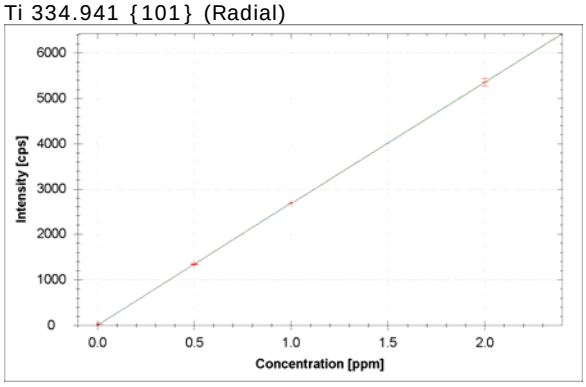
f(x) = 2017.8513*x + -5.8834
R^2 = 1.0000
BEC = -0.003 ppm
LoD = 0.0085 ppm

Sr 421.552 {80} (Radial)



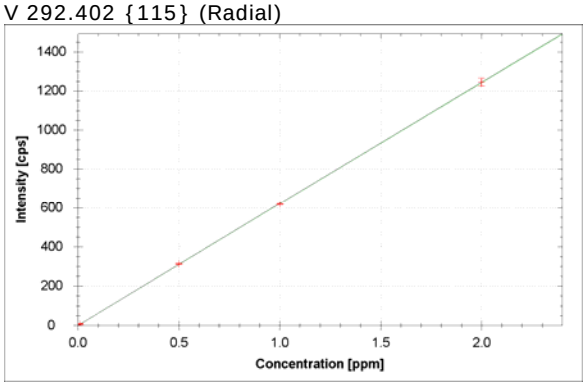
f(x) = 37780.5342*x + -1.5816
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0005 ppm

Ti 334.941 {101} (Radial)



f(x) = 2676.2008*x + 0.6227
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0013 ppm

V 292.402 {115} (Radial)



f(x) = 621.7751*x + -0.3384
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0049 ppm

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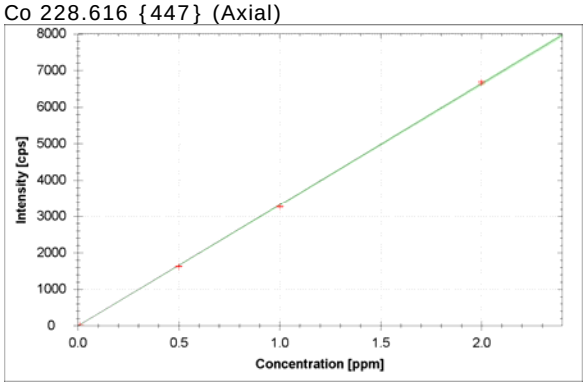
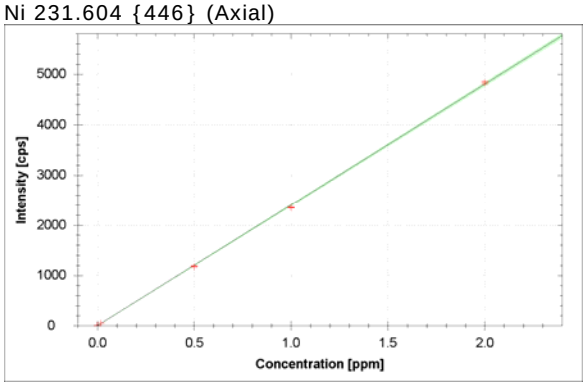
Co 228.616 {447} (Axial)



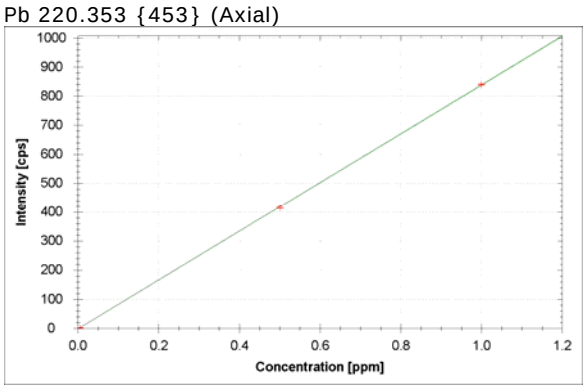
f(x) = 3320.3178*x + -2.2884
R^2 = 0.9999
BEC = -0.001 ppm
LoD = 0.0003 ppm

Ni 231.604 {446} (Axial)



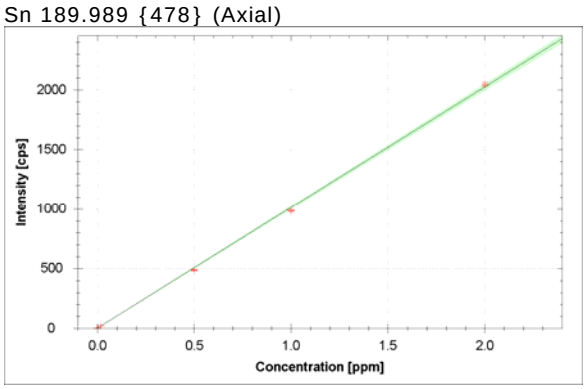
f(x) = 2400.9974*x + 1.8687
R^2 = 0.9998
BEC = 0.001 ppm
LoD = 0.0003 ppm

Pb 220.353 {453} (Axial)



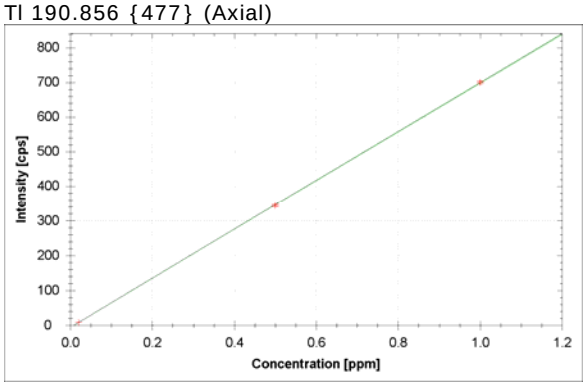
f(x) = 840.1935*x + -1.6853
R^2 = 1.0000
BEC = -0.002 ppm
LoD = 0.0006 ppm

Sn 189.989 {478} (Axial)



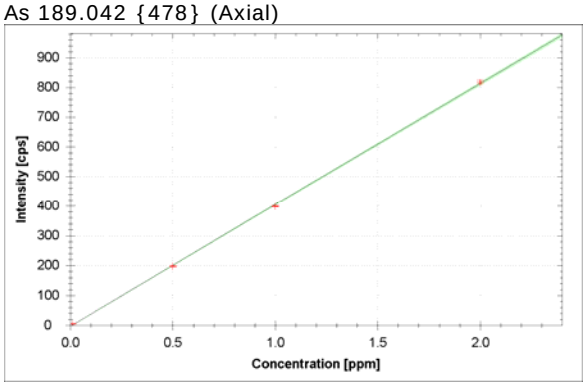
f(x) = 1011.4110*x + 1.8030
R^2 = 0.9994
BEC = 0.002 ppm
LoD = 0.0011 ppm

Tl 190.856 {477} (Axial)



f(x) = 704.4654*x + -5.4289
R^2 = 1.0000
BEC = -0.008 ppm
LoD = 0.0025 ppm

As 189.042 {478} (Axial)



f(x) = 408.0301*x + -2.8341
R^2 = 0.9998
BEC = -0.007 ppm
LoD = 0.0021 ppm

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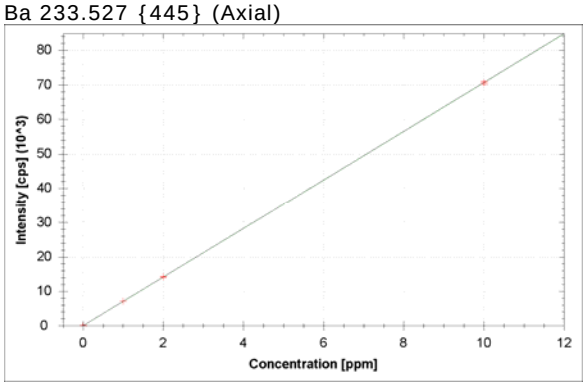
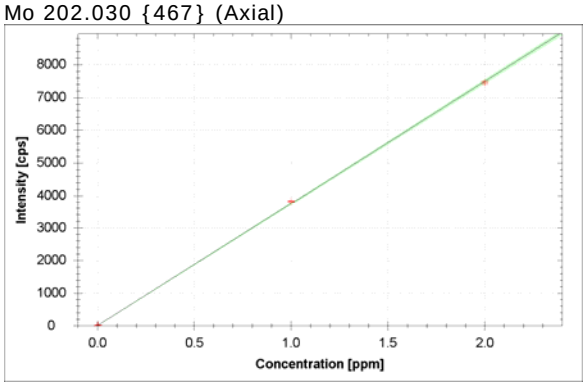
Ba 233.527 {445} (Axial)



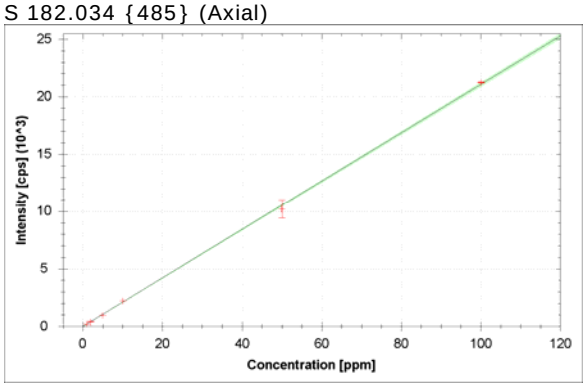
f(x) = 7064.4609*x + 1.3693
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Mo 202.030 {467} (Axial)



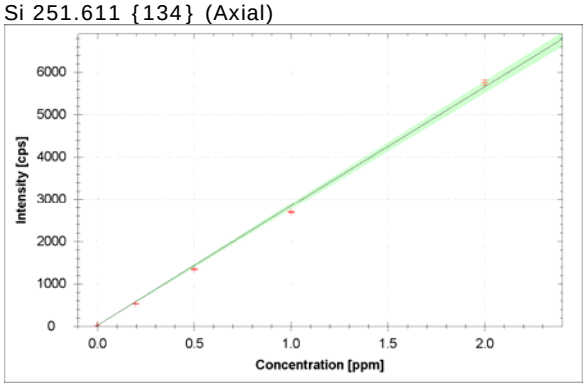
f(x) = 3743.5635*x + 2.5638
R^2 = 0.9998
BEC = 0.001 ppm
LoD = 0.0005 ppm

S 182.034 {485} (Axial)



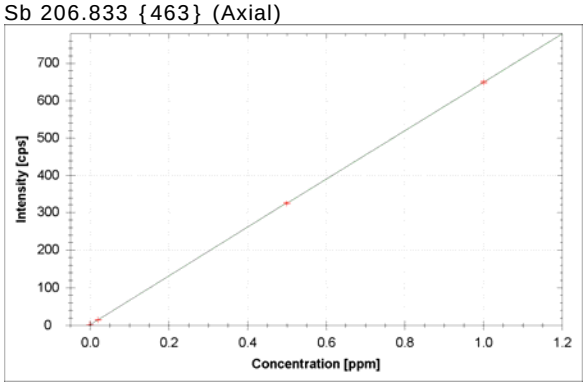
f(x) = 210.6466*x + 1.0158
R^2 = 0.9996
BEC = 0.005 ppm
LoD = 0.0093 ppm

Si 251.611 {134} (Axial)



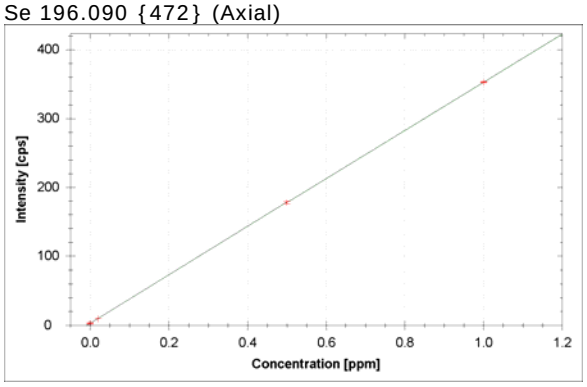
f(x) = 2815.8674*x + 24.1896
R^2 = 0.9980
BEC = 0.009 ppm
LoD = 0.0024 ppm

Sb 206.833 {463} (Axial)



f(x) = 647.3210*x + 1.7706
R^2 = 1.0000
BEC = 0.003 ppm
LoD = 0.0021 ppm

Se 196.090 {472} (Axial)



f(x) = 349.5835*x + 2.9926
R^2 = 1.0000
BEC = 0.009 ppm
LoD = 0.0078 ppm

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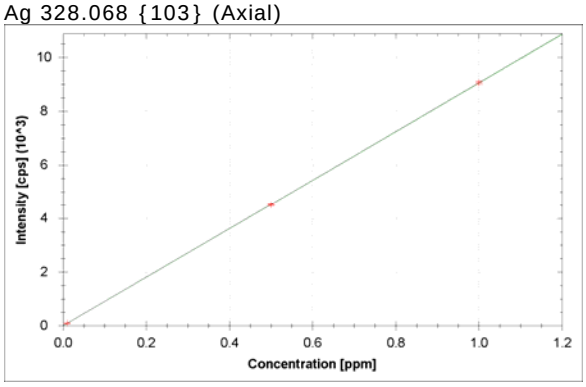
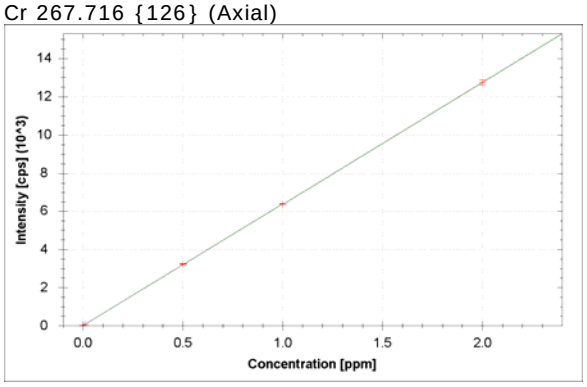
Ag 328.068 {103} (Axial)



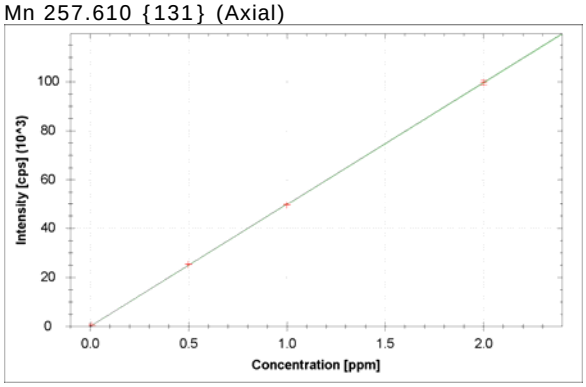
f(x) = 9056.1585*x + -0.4222
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0002 ppm

Cr 267.716 {126} (Axial)



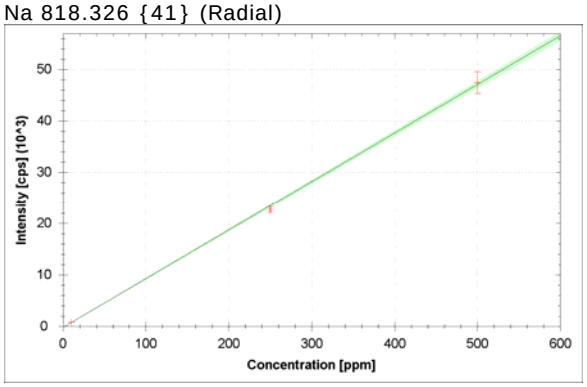
f(x) = 6364.5847*x + 8.6327
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0010 ppm

Mn 257.610 {131} (Axial)



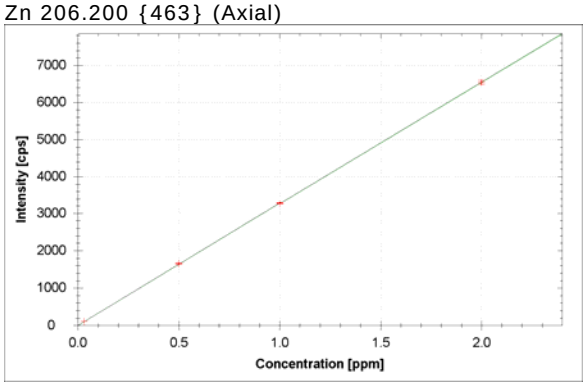
f(x) = 49795.6341*x + 8.7736
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0001 ppm

Na 818.326 {41} (Radial)



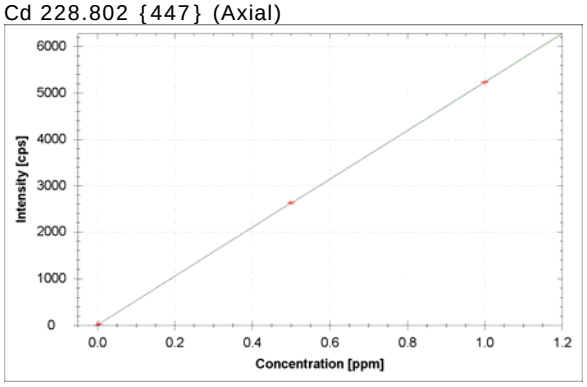
f(x) = 94.5413*x + -185.5401
R^2 = 0.9995
BEC = -1.963 ppm
LoD = 0.0245 ppm

Zn 206.200 {463} (Axial)



f(x) = 3272.6092*x + -0.4020
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0005 ppm

Cd 228.802 {447} (Axial)



f(x) = 5226.2322*x + 6.0813
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0002 ppm

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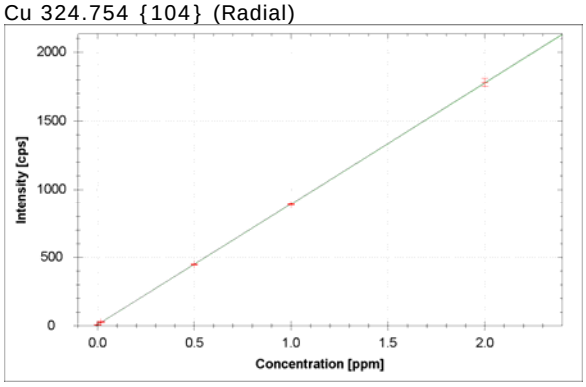
Cu 324.754 {104} (Radial)



f(x) = 884.5400*x + 7.0574
R^2 = 1.0000
BEC = 0.008 ppm
LoD = 0.0042 ppm

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QTEGRA

Standard readbacks

	STD1 14G16199 Concentration average	STD1 14G16199 Standard Concentration
Al 308.215 {109} (Radial)	0.103 ppm	0.100 ppm
B 249.678 {135} (Radial)	0.199 ppm	0.200 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.002 ppm
Ca 317.933 {106} (Radial)	0.516 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.106 ppm	0.100 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.513 ppm	0.500 ppm
Li 670.784 {50} (Radial)	0.015 ppm	0.015 ppm
Mg 279.079 {121} (Radial)	0.112 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.510 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)	0.019 ppm	0.020 ppm
Pb 220.353 {453} (Axial)	0.005 ppm	0.005 ppm
Sn 189.989 {478} (Axial)	0.019 ppm	0.020 ppm
Tl 190.856 {477} (Axial)	0.020 ppm	0.020 ppm
As 189.042 {478} (Axial)	0.021 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)	4.630 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.185 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.018 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)	100.169 %	
Y 224.306 {450} (Axial)	100.166 %	
In 230.606 {446} (Axial)	99.711 %	
Y 360.073 {94} (Axial)	99.974 %	
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)	0.022 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)	0.500 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.515 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.539 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)	0.519 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.521 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.514 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.514 ppm	0.500 ppm

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	STD7 14J27631	STD7 14J27631
V 292.402 {115} (Radial)	0.515 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.496 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.494 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.498 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.484 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.496 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.491 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)	0.476 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.500 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.501 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.498 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.511 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.514 ppm	0.500 ppm
Y 360.073 {94} (Radial)	99.368 %	
Y 224.306 {450} (Axial)	99.979 %	
In 230.606 {446} (Axial)	98.059 %	
Y 360.073 {94} (Axial)	99.152 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.508 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.501 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.513 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)	1.024 ppm	1.000 ppm
Be 313.042 {108} (Radial)	1.038 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	1.051 ppm	1.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.039 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)	1.036 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.020 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	1.035 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	1.039 ppm	1.000 ppm
V 292.402 {115} (Radial)	1.039 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.995 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.992 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.001 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.980 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.002 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.980 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	1.033 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	1.020 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.928 ppm	1.000 ppm
Si 251.611 {134} (Axial)	0.958 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	1.000 ppm	1.000 ppm
Se 196.090 {472} (Axial)	1.000 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.001 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	1.023 ppm	1.000 ppm

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	STD2 14J08649	STD2 14J08649
Mn 257.610 {131} (Axial)	1.022 ppm	1.000 ppm
Y 360.073 {94} (Radial)	98.384 %	
Y 224.306 {450} (Axial)	99.507 %	
In 230.606 {446} (Axial)	96.523 %	
Y 360.073 {94} (Axial)	98.519 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.009 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	0.999 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	1.033 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)	1.988 ppm	2.000 ppm
Be 313.042 {108} (Radial)	1.978 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	1.960 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.955 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)	1.977 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.965 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	1.979 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)	2.003 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.005 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.014 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)	2.047 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	1.990 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.978 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.028 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)	1.986 ppm	2.000 ppm
Mn 257.610 {131} (Axial)	1.985 ppm	2.000 ppm
Y 360.073 {94} (Radial)	104.798 %	
Y 224.306 {450} (Axial)	100.816 %	
In 230.606 {446} (Axial)	96.837 %	
Y 360.073 {94} (Axial)	100.427 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.994 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	1.980 ppm	2.000 ppm

	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	9.888 ppm	10.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	

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	STD4 14J27630	STD4 14J27630
Ca 317.933 {106} (Radial)	10.000 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.553 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	10.005 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	11.029 ppm	10.000 ppm
K 766.490 {44} (Radial)	10.092 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	10.012 ppm	10.000 ppm
Na 589.592 {57} (Radial)	10.003 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)	9.987 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	10.403 ppm	10.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	104.166 %	
Y 224.306 {450} (Axial)	100.371 %	
In 230.606 {446} (Axial)	95.464 %	
Y 360.073 {94} (Axial)	99.574 %	
Na 818.326 {41} (Radial)	10.653 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)	250.942 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)	256.456 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	103.311 ppm	100.000 ppm
K 766.490 {44} (Radial)	50.573 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	253.160 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	

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	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)	48.907 ppm	50.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	95.761 %	
Y 224.306 {450} (Axial)	89.103 %	
In 230.606 {446} (Axial)	72.087 %	
Y 360.073 {94} (Axial)	85.815 %	
Na 818.326 {41} (Radial)	250.710 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)	499.531 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)	496.761 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	198.293 ppm	200.000 ppm
K 766.490 {44} (Radial)	99.704 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	498.420 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)	100.526 ppm	100.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	95.346 %	
Y 224.306 {450} (Axial)	84.554 %	
In 230.606 {446} (Axial)	64.558 %	
Y 360.073 {94} (Axial)	83.070 %	

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	STD6 14I24985	STD6 14I24985
Na 818.326 {41} (Radial)	499.632 ppm	500.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD1 14G16199	STD1 14G16199
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.079 ppm	0.100 ppm
B 249.678 {135} (Radial)	0.192 ppm	0.200 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.002 ppm
Ca 317.933 {106} (Radial)	0.513 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.105 ppm	0.100 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.493 ppm	0.500 ppm
Li 670.784 {50} (Radial)	0.016 ppm	0.015 ppm
Mg 279.079 {121} (Radial)	0.087 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.511 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.010 ppm
Ti 334.941 {101} (Radial)	0.009 ppm	0.010 ppm
V 292.402 {115} (Radial)	0.011 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)	0.004 ppm	0.005 ppm
Sn 189.989 {478} (Axial)	0.019 ppm	0.020 ppm
Tl 190.856 {477} (Axial)	0.019 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)	4.519 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.182 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.020 ppm	0.020 ppm
Se 196.090 {472} (Axial)	0.019 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)	100.941 %	
Y 224.306 {450} (Axial)	100.059 %	
In 230.606 {446} (Axial)	99.260 %	
Y 360.073 {94} (Axial)	99.962 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.034 ppm	0.030 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.005 ppm
Cu 324.754 {104} (Radial)	0.022 ppm	0.020 ppm

	STD7 14J27631	STD7 14J27631
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	0.490 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.500 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.553 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	

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	STD7 14J27631	STD7 14J27631
Li 670.784 {50} (Radial)	0.507 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.514 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.502 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.501 ppm	0.500 ppm
V 292.402 {115} (Radial)	0.503 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.491 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.489 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.497 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.479 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.496 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.490 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)	0.468 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.500 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.500 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.498 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.505 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.508 ppm	0.500 ppm
Y 360.073 {94} (Radial)	101.592 %	
Y 224.306 {450} (Axial)	101.685 %	
In 230.606 {446} (Axial)	99.654 %	
Y 360.073 {94} (Axial)	100.911 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.506 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.501 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.497 ppm	0.500 ppm

	STD2 14J08649	STD2 14J08649
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	0.989 ppm	1.000 ppm
Be 313.042 {108} (Radial)	0.991 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	1.015 ppm	1.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.994 ppm	1.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	0.998 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.986 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	0.996 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	0.998 ppm	1.000 ppm
V 292.402 {115} (Radial)	0.994 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.985 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.980 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.002 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.971 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.002 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.984 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	1.009 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	1.020 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.911 ppm	1.000 ppm

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	STD2 14J08649	STD2 14J08649
Si 251.611 {134} (Axial)	0.948 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	1.000 ppm	1.000 ppm
Se 196.090 {472} (Axial)	1.000 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.001 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	0.999 ppm	1.000 ppm
Mn 257.610 {131} (Axial)	0.995 ppm	1.000 ppm
Y 360.073 {94} (Radial)	101.296 %	
Y 224.306 {450} (Axial)	101.140 %	
In 230.606 {446} (Axial)	97.921 %	
Y 360.073 {94} (Axial)	100.667 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.997 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	1.000 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	0.995 ppm	1.000 ppm

	STD3 14J06521	STD3 14J06521
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	2.009 ppm	2.000 ppm
Be 313.042 {108} (Radial)	2.005 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	1.992 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.983 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)	1.999 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.994 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	2.001 ppm	2.000 ppm
Ti 334.941 {101} (Radial)	2.001 ppm	2.000 ppm
V 292.402 {115} (Radial)	2.002 ppm	2.000 ppm
Co 228.616 {447} (Axial)	2.010 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.013 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.020 ppm	2.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	2.010 ppm	2.000 ppm
Ba 233.527 {445} (Axial)	2.001 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	1.990 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.935 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.036 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)	1.999 ppm	2.000 ppm
Mn 257.610 {131} (Axial)	2.000 ppm	2.000 ppm
Y 360.073 {94} (Radial)	102.878 %	
Y 224.306 {450} (Axial)	102.739 %	
In 230.606 {446} (Axial)	97.447 %	
Y 360.073 {94} (Axial)	99.459 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	2.000 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	2.003 ppm	2.000 ppm

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	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	9.857 ppm	10.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	9.997 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.375 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	10.004 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	10.697 ppm	10.000 ppm
K 766.490 {44} (Radial)	10.024 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	9.745 ppm	10.000 ppm
Na 589.592 {57} (Radial)	10.001 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)	9.999 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	10.469 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)	103.567 %	
Y 224.306 {450} (Axial)	99.581 %	
In 230.606 {446} (Axial)	93.138 %	
Y 360.073 {94} (Axial)	98.113 %	
Na 818.326 {41} (Radial)	10.635 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)	243.547 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)	246.616 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	99.313 ppm	100.000 ppm
K 766.490 {44} (Radial)	48.863 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	241.907 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	

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	STD5 14J08650	STD5 14J08650
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	48.447 ppm	50.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	96.658 %	
Y 224.306 {450} (Axial)	89.414 %	
In 230.606 {446} (Axial)	71.185 %	
Y 360.073 {94} (Axial)	85.263 %	
Na 818.326 {41} (Radial)	242.117 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)	503.230 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)	501.684 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	200.308 ppm	200.000 ppm
K 766.490 {44} (Radial)	100.566 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	504.052 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)	100.756 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	

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	STD6 14I24985	STD6 14I24985
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	92.130 %	
Y 224.306 {450} (Axial)	84.288 %	
In 230.606 {446} (Axial)	63.660 %	
Y 360.073 {94} (Axial)	80.425 %	
Na 818.326 {41} (Radial)	503.929 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	

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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
ICV 14I23903	QC	3	1	9
ICB	QC	3	1	10
ICVLL 14G16199	QC	3	1	11
ICSA 14J10823	QC	3	1	12
ICSAB 14J10824	QC	3	1	13
carryover	UNKNOWN	3	0	1
BLANK WG750667	UNKNOWN	3	1	25
LCS WG750667	UNKNOWN	3	1	26
LCSD WG750667	UNKNOWN	3	1	27
L729564-05 WG750667	UNKNOWN	3	1	28
SD L729564-05 WG750667	UNKNOWN	3	1	29
PS L729564-05 WG750667	UNKNOWN	3	1	30
MS L729564-05 WG750667	UNKNOWN	3	1	31
MSD L729564-05 WG750667	UNKNOWN	3	1	32
L729563-01 WG750667	UNKNOWN	3	1	33
L729563-02 WG750667	UNKNOWN	3	1	34
CCV 14J27642	QC	3	1	35
CCB	QC	3	1	36
L729563-04 WG750667	UNKNOWN	3	1	37
L729563-05 WG750667	UNKNOWN	3	1	38
L729563-06 WG750667	UNKNOWN	3	1	39
L729564-01 WG750667	UNKNOWN	3	1	40
L729564-02 WG750667	UNKNOWN	3	1	41
L729564-04 WG750667	UNKNOWN	3	1	42
CCV 14J27642	QC	3	1	43
CCB	QC	3	1	44
CCVLL 14G16199	QC	3	1	45
BLANK WG751923	UNKNOWN	3	1	49
LCS WG751923	UNKNOWN	3	1	50
LCSD WG751923	UNKNOWN	3	1	51
L729568-02 WG751923	UNKNOWN	3	1	52
SD L729568-02 WG751923	UNKNOWN	3	1	53
PS L729568-02 WG751923	UNKNOWN	3	1	54
MS L729568-02 WG751923	UNKNOWN	3	1	55
MSD L729568-02 WG751923	UNKNOWN	3	1	56
L729568-01 WG751923	UNKNOWN	3	1	57
L729568-04 WG751923	UNKNOWN	3	1	58
L729568-05 WG751923	UNKNOWN	3	1	59
CCV 14J27642	QC	3	1	60
CCB	QC	3	2	1
CCVLL 14G16199	QC	3	2	2
BLANK WG752285	UNKNOWN	3	1	25
LCS WG752285	UNKNOWN	3	1	26
LCSD WG752285	UNKNOWN	3	1	27
L729802-01 WG752285	UNKNOWN	3	1	28

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Label	Sample Type	Repeats	Rack	Vial
SD L729802-01 WG752285	UNKNOWN	3	1	29
PS L729802-01 WG752285	UNKNOWN	3	1	30
MS L729802-01 WG752285	UNKNOWN	3	1	31
MSD L729802-01 WG752285	UNKNOWN	3	1	32
L729802-03 WG752285	UNKNOWN	3	1	33
L729802-04 WG752285	UNKNOWN	3	1	34
L729802-05 WG752285	UNKNOWN	3	1	35
CCV 14J27642	QC	3	1	36
CCB	QC	3	1	37
CCVLL 14G16199	QC	3	1	38
CCVLL 14G16199	QC	3	1	38
ICSA 14J27643	QC	3	1	39
ICSAB 14J27644	QC	3	1	40
carryover	UNKNOWN	3	0	1
BLANK WG752446	UNKNOWN	3	1	13
LCS WG752446	UNKNOWN	3	1	14
LCSD WG752446	UNKNOWN	3	1	15
L730702-01 WG752446	UNKNOWN	3	1	16
SD L730702-01 WG752446	UNKNOWN	3	1	17
PS L730702-01 WG752446	UNKNOWN	3	1	18
MS L730702-01 WG752446	UNKNOWN	3	1	19
MSD L730702-01 WG752446	UNKNOWN	3	1	20
L730703-01 WG752446	UNKNOWN	3	1	21
L730712-01 WG752446	UNKNOWN	3	1	22
CCV 14J27642	QC	3	1	23
CCB	QC	3	1	24
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
CCV 14J27642	QC	3	1	9
CCB	QC	3	1	10
CCV 14J27642	QC	3	1	9
CCB	QC	3	1	10
CCVLL 14J27641	QC	3	1	11
L730727-01 WG752446	UNKNOWN	3	1	25
L730727-02 WG752446	UNKNOWN	3	1	26
L730757-01 WG752446	UNKNOWN	3	1	27
L730859-01 WG752446	UNKNOWN	3	1	28
L730860-01 WG752446	UNKNOWN	3	1	29
L730865-01 WG752446	UNKNOWN	3	1	30
L730950-01 WG752446	UNKNOWN	3	1	31
BLANK WG752644	UNKNOWN	3	1	32
LCS WG752644	UNKNOWN	3	1	33
LCSD WG752644	UNKNOWN	3	1	34
CCV 14J27642	QC	3	1	35
CCB	QC	3	1	36
L731293-01 WG752644	UNKNOWN	3	1	37
SD L731293-01 WG752644	UNKNOWN	3	1	38
PS L731293-01 WG752644	UNKNOWN	3	1	39
MS L731293-01 WG752644	UNKNOWN	3	1	40

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Label	Sample Type	Repeats	Rack	Vial
MSD L731293-01 WG752644	UNKNOWN	3	1	41
L731235-01 WG752644	UNKNOWN	3	1	42
L731250-03 WG752644	UNKNOWN	3	1	43
L731250-04 WG752644	UNKNOWN	3	1	44
L731252-01 WG752644	UNKNOWN	3	1	45
L731255-01 WG752644	UNKNOWN	3	1	46
CCV 14J27642	QC	3	1	47
CCB	QC	3	1	48
L731255-03 WG752644	UNKNOWN	3	1	49
L731289-01 WG752644	UNKNOWN	3	1	50
L731291-01 WG752644	UNKNOWN	3	1	51
L731295-01 WG752644	UNKNOWN	3	1	52
CCV 14J27642	QC	3	1	53
CCB	QC	3	1	54
CCVLL 14G16199	QC	3	1	55
ICSA 14J27643	QC	3	1	56
ICSAB 14J27644	QC	3	1	57
L730727-01 WG752446	UNKNOWN	3	2	1
L730757-01 WG752446	UNKNOWN	3	2	2
CCV 14J27642	QC	3	2	3
CCB	QC	3	2	4
CCVLL 14G16199	QC	3	2	5
ICSA 14J27643	QC	3	2	6
ICSAB 14J27644	QC	3	2	7
LCS WG752644	UNKNOWN	3	2	1
LCSD WG752644	UNKNOWN	3	2	2
BLANK WG752773	UNKNOWN	3	2	3
LCS WG752773	UNKNOWN	3	2	4
LCSD WG752773	UNKNOWN	3	2	5
L730894-02 WG752773	UNKNOWN	3	2	6
SD L730894-02 WG752773	UNKNOWN	3	2	7
PS L730894-02 WG752773	UNKNOWN	3	2	8
MS L730894-02 WG752773	UNKNOWN	3	2	9
MSD L730894-02 WG752773	UNKNOWN	3	2	10
CCV 14J27642	QC	3	2	11
CCB	QC	3	2	12
L730895-02 WG752773	UNKNOWN	3	2	13
L731136-01 WG752773	UNKNOWN	3	2	14
L731137-01 WG752773	UNKNOWN	3	2	15
BLANK WG752445	UNKNOWN	3	2	16
LCS WG752445	UNKNOWN	3	2	17
LCSD WG752445	UNKNOWN	3	2	18
L731077-01 WG752445	UNKNOWN	3	2	19
SD L731077-01 WG752445	UNKNOWN	3	2	20
PS L731077-01 WG752445	UNKNOWN	3	2	21
MS L731077-01 WG752445	UNKNOWN	3	2	22
CCV 14J27642	QC	3	2	23
CCB	QC	3	2	24
MSD L731077-01 WG752445	UNKNOWN	3	2	25
L731055-01 WG752445	UNKNOWN	3	2	26
L731055-02 WG752445	UNKNOWN	3	2	27
L731055-03 WG752445	UNKNOWN	3	2	28
L731055-04 WG752445	UNKNOWN	3	2	29
L731055-05 WG752445	UNKNOWN	3	2	30
L731055-06 WG752445	UNKNOWN	3	2	31

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Label	Sample Type	Repeats	Rack	Vial
L731055-07 WG752445	UNKNOWN	3	2	32
L731055-08 WG752445	UNKNOWN	3	2	33
L731077-02 WG752445	UNKNOWN	3	2	34
CCV 14J27642	QC	3	2	35
CCB	QC	3	2	36
L731107-01 WG752445	UNKNOWN	3	2	37
L731107-02 WG752445	UNKNOWN	3	2	38
L731107-03 WG752445	UNKNOWN	3	2	39
L731107-04 WG752445	UNKNOWN	3	2	40
L731107-05 WG752445	UNKNOWN	3	2	41
L731107-06 WG752445	UNKNOWN	3	2	42
L731107-07 WG752445	UNKNOWN	3	2	43
L731107-08 WG752445	UNKNOWN	3	2	44
L731107-09 WG752445	UNKNOWN	3	2	45
CCV 14J27642	QC	3	2	46
CCB	QC	3	2	47
CCVLL 14G16199	QC	3	2	48
ICSA 14J27643	QC	3	2	49
ICSAB 14J27644	QC	3	2	50

Start Time
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11/5/2014 11:20:41 AM
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Start Time
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Start Time
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CALBLK

Sample Type BLK Analysis Date 11/5/2014 11:03:16 AM

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	0.4 %	1.4 %	44.6 %	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	0.0 %	0.3 %	0.9 %	-17.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 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 %	-4.5 %	24.7 %	-5.8 %
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	5.3 %	0.6 %	-0.6 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	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	-0.5 %	0.1 %	-0.1 %	-0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.0 %	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm

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	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	0.3 %	3.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration RSD	0.5 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.000 %	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	100.000 %	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.0 %	0.8 %	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	0.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	2 cps	0 cps	44 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	10 cps	2 cps	1 cps	0 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-26 cps	0 cps	0 cps	-1 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1 cps	1 cps	-1 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	2 cps	-5 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1 cps	3 cps	2 cps	24 cps

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	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	1 cps	7 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	4 cps	5,916 cps	9,747 cps	3,594 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	160,399 cps	-160 cps	0 cps	5 cps

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

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STD1 14G16199

Sample Type STD Analysis Date 11/5/2014 11:07:46 AM

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	0.103 ppm	0.199 ppm	0.002 ppm	0.516 ppm
Concentration per Run 1	0.126 ppm	0.198 ppm	0.002 ppm	0.520 ppm
Concentration per Run 2	0.094 ppm	0.202 ppm	0.002 ppm	0.513 ppm
Concentration per Run 3	0.090 ppm	0.198 ppm	0.002 ppm	0.515 ppm
Concentration RSD	18.9 %	1.3 %	4.1 %	0.8 %
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	0.000 ppm	0.106 ppm	0.000 ppm	0.513 ppm
Concentration per Run 1	0.000 ppm	0.109 ppm	0.000 ppm	0.520 ppm
Concentration per Run 2	0.000 ppm	0.103 ppm	0.000 ppm	0.509 ppm
Concentration per Run 3	0.000 ppm	0.107 ppm	0.000 ppm	0.509 ppm
Concentration RSD		2.9 %		1.2 %
Concentration SD		0.0 ppm		0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.015 ppm	0.112 ppm	0.510 ppm	0.010 ppm
Concentration per Run 1	0.015 ppm	0.121 ppm	0.513 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.112 ppm	0.508 ppm	0.010 ppm
Concentration per Run 3	0.017 ppm	0.102 ppm	0.509 ppm	0.010 ppm
Concentration RSD	6.6 %	8.5 %	0.6 %	0.8 %
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	0.019 ppm
Concentration per Run 1	0.010 ppm	0.011 ppm	0.010 ppm	0.019 ppm
Concentration per Run 2	0.010 ppm	0.014 ppm	0.010 ppm	0.020 ppm
Concentration per Run 3	0.009 ppm	0.006 ppm	0.010 ppm	0.020 ppm
Concentration RSD	10.0 %	35.2 %	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	0.005 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 1	0.004 ppm	0.019 ppm	0.020 ppm	0.020 ppm
Concentration per Run 2	0.005 ppm	0.019 ppm	0.021 ppm	0.020 ppm
Concentration per Run 3	0.006 ppm	0.018 ppm	0.020 ppm	0.022 ppm
Concentration RSD	20.9 %	2.1 %	1.7 %	3.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	4.630 ppm	0.185 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.643 ppm	0.182 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.630 ppm	0.187 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.618 ppm	0.185 ppm
Concentration RSD	2.9 %	3.4 %	0.3 %	1.4 %
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	0.018 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.019 ppm	0.019 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.017 ppm	0.021 ppm	0.011 ppm	0.011 ppm
Concentration per Run 3	0.017 ppm	0.020 ppm	0.009 ppm	0.010 ppm
Concentration RSD	6.1 %	4.8 %	6.1 %	6.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.011 ppm	100.169 %	100.166 %	99.711 %
Concentration per Run 1	0.011 ppm	99.748 %	99.832 %	99.456 %
Concentration per Run 2	0.010 ppm	100.801 %	100.694 %	100.048 %
Concentration per Run 3	0.011 ppm	99.959 %	99.972 %	99.631 %
Concentration RSD	1.1 %			
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	99.974 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration per Run 1	99.795 %	0.000 ppm	0.032 ppm	0.005 ppm
Concentration per Run 2	100.094 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration per Run 3	100.033 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration RSD			0.5 %	1.8 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.022 ppm
Concentration per Run 1	0.024 ppm
Concentration per Run 2	0.022 ppm
Concentration per Run 3	0.022 ppm
Concentration RSD	4.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	10 cps	68 cps	38 cps	349 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	130 cps	49 cps	3 cps	290 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	192 cps	6 cps	1,004 cps	370 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	26 cps	7 cps	33 cps	49 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	21 cps	9 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	39 cps	22 cps	1,003 cps	526 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	13 cps	9 cps	90 cps	72 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	544 cps	5,926 cps	9,764 cps	3,584 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	160,358 cps	-97 cps	109 cps	33 cps

	Cu 324.754 {104} (Radial)
Intensity average	25 cps

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STD7 14J27631

Sample Type STD Analysis Date 11/5/2014 11:12:14 AM

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	0.500 ppm	0.515 ppm	0.539 ppm
Concentration per Run 1	0.000 ppm	0.498 ppm	0.518 ppm	0.540 ppm
Concentration per Run 2	0.000 ppm	0.500 ppm	0.514 ppm	0.536 ppm
Concentration per Run 3	0.000 ppm	0.503 ppm	0.512 ppm	0.539 ppm
Concentration RSD		0.5 %	0.5 %	0.4 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	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	0.519 ppm	0.000 ppm	0.521 ppm	0.514 ppm
Concentration per Run 1	0.524 ppm	0.000 ppm	0.529 ppm	0.517 ppm
Concentration per Run 2	0.520 ppm	0.000 ppm	0.520 ppm	0.514 ppm
Concentration per Run 3	0.515 ppm	0.000 ppm	0.516 ppm	0.510 ppm
Concentration RSD	0.9 %		1.3 %	0.7 %
Concentration SD	0.0 ppm		0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.514 ppm	0.515 ppm	0.496 ppm	0.494 ppm
Concentration per Run 1	0.514 ppm	0.526 ppm	0.497 ppm	0.494 ppm
Concentration per Run 2	0.515 ppm	0.508 ppm	0.497 ppm	0.494 ppm
Concentration per Run 3	0.513 ppm	0.510 ppm	0.495 ppm	0.494 ppm
Concentration RSD	0.2 %	2.0 %	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	0.498 ppm	0.484 ppm	0.496 ppm	0.491 ppm
Concentration per Run 1	0.499 ppm	0.483 ppm	0.497 ppm	0.494 ppm
Concentration per Run 2	0.498 ppm	0.486 ppm	0.497 ppm	0.491 ppm
Concentration per Run 3	0.496 ppm	0.484 ppm	0.496 ppm	0.486 ppm
Concentration RSD	0.3 %	0.4 %	0.1 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	0.476 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.475 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.482 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.472 ppm
Concentration RSD				1.1 %
Concentration SD				0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.500 ppm	0.501 ppm	0.498 ppm	0.511 ppm
Concentration per Run 1	0.504 ppm	0.500 ppm	0.495 ppm	0.510 ppm
Concentration per Run 2	0.499 ppm	0.504 ppm	0.504 ppm	0.516 ppm
Concentration per Run 3	0.496 ppm	0.497 ppm	0.494 ppm	0.506 ppm
Concentration RSD	0.7 %	0.7 %	1.1 %	1.0 %
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	0.514 ppm	99.368 %	99.979 %	98.059 %
Concentration per Run 1	0.513 ppm	99.220 %	99.340 %	97.547 %
Concentration per Run 2	0.518 ppm	99.040 %	100.149 %	98.215 %
Concentration per Run 3	0.510 ppm	99.845 %	100.449 %	98.413 %
Concentration RSD	0.8 %			
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	99.152 %	0.000 ppm	0.508 ppm	0.501 ppm
Concentration per Run 1	99.697 %	0.000 ppm	0.508 ppm	0.503 ppm
Concentration per Run 2	99.068 %	0.000 ppm	0.509 ppm	0.501 ppm
Concentration per Run 3	98.693 %	0.000 ppm	0.508 ppm	0.500 ppm
Concentration RSD			0.2 %	0.3 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.513 ppm
Concentration per Run 1	0.516 ppm
Concentration per Run 2	0.517 ppm
Concentration per Run 3	0.507 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	25 cps	167 cps	9,483 cps	360 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	135 cps	228 cps	14 cps	293 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	7,221 cps	30 cps	1,018 cps	18,733 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,349 cps	314 cps	1,637 cps	1,201 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	420 cps	493 cps	332 cps	199 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,645 cps	1,972 cps	102 cps	1,305 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	313 cps	178 cps	4,395 cps	3,237 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	26,107 cps	5,879 cps	9,745 cps	3,524 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,040 cps	-83 cps	1,749 cps	2,640 cps

	Cu 324.754 {104} (Radial)
Intensity average	439 cps

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STD2 14J08649

Sample Type STD Analysis Date 11/5/2014 11:16:29 AM

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	1.024 ppm	1.038 ppm	1.051 ppm
Concentration per Run 1	0.000 ppm	0.994 ppm	1.008 ppm	1.020 ppm
Concentration per Run 2	0.000 ppm	1.085 ppm	1.101 ppm	1.125 ppm
Concentration per Run 3	0.000 ppm	0.994 ppm	1.003 ppm	1.008 ppm
Concentration RSD		5.1 %	5.3 %	6.1 %
Concentration SD		0.1 ppm	0.1 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	1.039 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.008 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.101 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.008 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	1.036 ppm	0.000 ppm	1.020 ppm	1.035 ppm
Concentration per Run 1	1.007 ppm	0.000 ppm	0.995 ppm	1.008 ppm
Concentration per Run 2	1.097 ppm	0.000 ppm	1.077 ppm	1.096 ppm
Concentration per Run 3	1.003 ppm	0.000 ppm	0.989 ppm	1.000 ppm
Concentration RSD	5.1 %		4.8 %	5.1 %
Concentration SD	0.1 ppm		0.0 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.039 ppm	1.039 ppm	0.995 ppm	0.992 ppm
Concentration per Run 1	1.005 ppm	1.002 ppm	0.996 ppm	0.992 ppm
Concentration per Run 2	1.101 ppm	1.115 ppm	0.995 ppm	0.992 ppm
Concentration per Run 3	1.009 ppm	1.001 ppm	0.994 ppm	0.993 ppm
Concentration RSD	5.2 %	6.3 %	0.1 %	0.1 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.001 ppm	0.980 ppm	1.002 ppm	0.980 ppm
Concentration per Run 1	1.003 ppm	0.981 ppm	1.002 ppm	0.985 ppm
Concentration per Run 2	1.001 ppm	0.979 ppm	1.003 ppm	0.978 ppm
Concentration per Run 3	0.999 ppm	0.981 ppm	1.001 ppm	0.978 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.033 ppm	1.020 ppm	0.928 ppm	0.958 ppm
Concentration per Run 1	1.034 ppm	1.022 ppm	0.929 ppm	0.973 ppm
Concentration per Run 2	1.032 ppm	1.018 ppm	0.926 ppm	0.949 ppm
Concentration per Run 3	1.032 ppm	1.019 ppm	0.929 ppm	0.953 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	1.3 %
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	1.000 ppm	1.000 ppm	1.001 ppm	1.023 ppm
Concentration per Run 1	1.001 ppm	0.997 ppm	1.011 ppm	1.024 ppm
Concentration per Run 2	1.001 ppm	0.998 ppm	0.992 ppm	1.020 ppm
Concentration per Run 3	0.999 ppm	1.004 ppm	1.000 ppm	1.025 ppm
Concentration RSD	0.1 %	0.4 %	0.9 %	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	1.022 ppm	98.384 %	99.507 %	96.523 %
Concentration per Run 1	1.025 ppm	100.576 %	99.413 %	96.483 %
Concentration per Run 2	1.021 ppm	93.126 %	99.698 %	96.739 %
Concentration per Run 3	1.021 ppm	101.451 %	99.409 %	96.347 %
Concentration RSD	0.2 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.519 %	0.000 ppm	1.009 ppm	0.999 ppm
Concentration per Run 1	98.350 %	0.000 ppm	1.010 ppm	1.000 ppm
Concentration per Run 2	98.306 %	0.000 ppm	1.009 ppm	1.000 ppm
Concentration per Run 3	98.899 %	0.000 ppm	1.007 ppm	0.998 ppm
Concentration RSD			0.2 %	0.1 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.033 ppm
Concentration per Run 1	1.013 ppm
Concentration per Run 2	1.093 ppm
Concentration per Run 3	0.993 ppm
Concentration RSD	5.1 %
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	44 cps	336 cps	18,899 cps	653 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	256 cps	455 cps	30 cps	564 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	14,258 cps	58 cps	1,969 cps	37,297 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,693 cps	626 cps	3,232 cps	2,373 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	833 cps	981 cps	664 cps	398 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	7,153 cps	3,866 cps	202 cps	2,586 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	622 cps	351 cps	8,781 cps	6,432 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	51,619 cps	5,820 cps	9,699 cps	3,469 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,023 cps	-50 cps	3,455 cps	5,230 cps

	Cu 324.754 {104} (Radial)
Intensity average	868 cps

Comprehensive sample report

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STD3 14J06521

Sample Type STD Analysis Date 11/5/2014 11:20:41 AM

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	1.988 ppm	1.978 ppm	1.960 ppm
Concentration per Run 1	0.000 ppm	1.856 ppm	1.851 ppm	1.842 ppm
Concentration per Run 2	0.000 ppm	2.100 ppm	2.085 ppm	2.068 ppm
Concentration per Run 3	0.000 ppm	2.007 ppm	1.997 ppm	1.970 ppm
Concentration RSD		6.2 %	6.0 %	5.8 %
Concentration SD		0.1 ppm	0.1 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	1.955 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.836 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	2.058 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.971 ppm	0.000 ppm	0.000 ppm
Concentration RSD		5.7 %		
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	1.977 ppm	0.000 ppm	1.965 ppm	1.979 ppm
Concentration per Run 1	1.854 ppm	0.000 ppm	1.845 ppm	1.856 ppm
Concentration per Run 2	2.075 ppm	0.000 ppm	2.069 ppm	2.077 ppm
Concentration per Run 3	2.003 ppm	0.000 ppm	1.980 ppm	2.006 ppm
Concentration RSD	5.7 %		5.7 %	5.7 %
Concentration SD	0.1 ppm		0.1 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.977 ppm	1.977 ppm	2.003 ppm	2.005 ppm
Concentration per Run 1	1.847 ppm	1.844 ppm	2.002 ppm	2.003 ppm
Concentration per Run 2	2.081 ppm	2.096 ppm	2.007 ppm	2.010 ppm
Concentration per Run 3	2.003 ppm	1.990 ppm	2.001 ppm	2.003 ppm
Concentration RSD	6.0 %	6.4 %	0.1 %	0.2 %
Concentration SD	0.1 ppm	0.1 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	2.014 ppm	0.000 ppm	2.012 ppm
Concentration per Run 1	0.000 ppm	2.010 ppm	0.000 ppm	2.009 ppm
Concentration per Run 2	0.000 ppm	2.021 ppm	0.000 ppm	2.014 ppm
Concentration per Run 3	0.000 ppm	2.010 ppm	0.000 ppm	2.014 ppm
Concentration RSD		0.3 %		0.1 %
Concentration SD		0.0 ppm		0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	2.047 ppm	1.990 ppm	1.978 ppm	2.028 ppm
Concentration per Run 1	2.044 ppm	1.990 ppm	1.971 ppm	2.032 ppm
Concentration per Run 2	2.049 ppm	1.989 ppm	1.982 ppm	2.054 ppm
Concentration per Run 3	2.048 ppm	1.991 ppm	1.980 ppm	1.999 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	1.986 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	1.976 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	2.010 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	1.971 ppm
Concentration RSD				1.1 %
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	1.985 ppm	104.798 %	100.816 %	96.837 %
Concentration per Run 1	1.971 ppm	110.355 %	101.041 %	97.046 %
Concentration per Run 2	2.011 ppm	99.562 %	100.861 %	96.765 %
Concentration per Run 3	1.974 ppm	104.478 %	100.546 %	96.702 %
Concentration RSD	1.1 %			
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	100.427 %	0.000 ppm	1.994 ppm	0.000 ppm
Concentration per Run 1	100.777 %	0.000 ppm	1.991 ppm	0.000 ppm
Concentration per Run 2	99.943 %	0.000 ppm	1.995 ppm	0.000 ppm
Concentration per Run 3	100.560 %	0.000 ppm	1.994 ppm	0.000 ppm
Concentration RSD			0.1 %	
Concentration SD			0.0 ppm	

	Cu 324.754 {104} (Radial)
Concentration average	1.980 ppm
Concentration per Run 1	1.857 ppm
Concentration per Run 2	2.084 ppm
Concentration per Run 3	1.999 ppm
Concentration RSD	5.8 %
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	90 cps	693 cps	38,355 cps	1,258 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	494 cps	910 cps	61 cps	1,150 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	29,006 cps	119 cps	4,037 cps	75,978 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	5,458 cps	1,268 cps	6,529 cps	4,811 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1,738 cps	2,020 cps	1,409 cps	831 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	14,362 cps	7,641 cps	432 cps	5,552 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,307 cps	740 cps	18,573 cps	12,721 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	102,173 cps	6,200 cps	9,827 cps	3,481 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	161,083 cps	69 cps	6,917 cps	10,959 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,766 cps

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STD4 14J27630

Sample Type STD Analysis Date 11/5/2014 11:24:48 AM

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	9.888 ppm	0.000 ppm	0.000 ppm	10.000 ppm
Concentration per Run 1	9.837 ppm	0.000 ppm	0.000 ppm	9.984 ppm
Concentration per Run 2	9.867 ppm	0.000 ppm	0.000 ppm	9.985 ppm
Concentration per Run 3	9.961 ppm	0.000 ppm	0.000 ppm	10.032 ppm
Concentration RSD	0.7 %			0.3 %
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	10.553 ppm	10.005 ppm	11.029 ppm	10.092 ppm
Concentration per Run 1	10.563 ppm	10.009 ppm	10.995 ppm	10.088 ppm
Concentration per Run 2	10.538 ppm	9.981 ppm	11.079 ppm	10.131 ppm
Concentration per Run 3	10.557 ppm	10.025 ppm	11.015 ppm	10.058 ppm
Concentration RSD	0.1 %	0.2 %	0.4 %	0.4 %
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	0.000 ppm	10.012 ppm	10.003 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	10.029 ppm	10.004 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	10.010 ppm	10.013 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	9.996 ppm	9.993 ppm	0.000 ppm
Concentration RSD		0.2 %	0.1 %	
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				

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	9.987 ppm	0.000 ppm	10.403 ppm	0.000 ppm
Concentration per Run 1	9.986 ppm	0.000 ppm	10.369 ppm	0.000 ppm
Concentration per Run 2	9.992 ppm	0.000 ppm	10.400 ppm	0.000 ppm
Concentration per Run 3	9.984 ppm	0.000 ppm	10.439 ppm	0.000 ppm
Concentration RSD	0.0 %		0.3 %	
Concentration SD	0.0 ppm		0.0 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	104.166 %	100.371 %	95.464 %
Concentration per Run 1	0.000 ppm	104.355 %	100.661 %	95.578 %
Concentration per Run 2	0.000 ppm	104.411 %	100.304 %	95.439 %
Concentration per Run 3	0.000 ppm	103.733 %	100.147 %	95.374 %
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	99.574 %	10.653 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	99.473 %	10.476 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	99.737 %	10.731 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	99.513 %	10.751 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.4 %		
Concentration SD		0.2 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	476 cps	1 cps	1 cps	6,206 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	2,461 cps	4,630 cps	286 cps	5,932 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-19 cps	631 cps	20,469 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	4 cps	-1 cps	-2 cps	-1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	1 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	69,754 cps	2 cps	2,255 cps	27,846 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	2 cps	-1 cps	3 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	34 cps	6,162 cps	9,784 cps	3,431 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,716 cps	842 cps	5 cps	-6 cps

	Cu 324.754 {104} (Radial)
Intensity average	2 cps

Comprehensive sample report

11/6/2014 7:56:27 AM

STD5 14J08650

Sample Type STD Analysis Date 11/5/2014 11:29:12 AM

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	250.942 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	247.533 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	255.378 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	249.916 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1.6 %			
Concentration SD	4.0 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	256.456 ppm	0.000 ppm	103.311 ppm	50.573 ppm
Concentration per Run 1	253.323 ppm	0.000 ppm	101.946 ppm	50.106 ppm
Concentration per Run 2	260.485 ppm	0.000 ppm	105.246 ppm	51.255 ppm
Concentration per Run 3	255.560 ppm	0.000 ppm	102.740 ppm	50.358 ppm
Concentration RSD	1.4 %		1.7 %	1.2 %
Concentration SD	3.7 ppm		1.7 ppm	0.6 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	253.160 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	249.918 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	257.111 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	252.450 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.4 %		
Concentration SD		3.6 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

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	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	48.907 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	48.632 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	48.949 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	49.141 ppm	0.000 ppm
Concentration RSD			0.5 %	
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	95.761 %	89.103 %	72.087 %
Concentration per Run 1	0.000 ppm	96.880 %	89.354 %	72.426 %
Concentration per Run 2	0.000 ppm	94.710 %	89.396 %	72.096 %
Concentration per Run 3	0.000 ppm	95.692 %	88.561 %	71.739 %
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	85.815 %	250.710 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	85.281 %	248.567 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	86.407 %	254.983 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	85.758 %	248.578 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.5 %		
Concentration SD		3.7 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	10,975 cps	1 cps	0 cps	134,763 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	54,756 cps	39,658 cps	2,456 cps	27,325 cps

Comprehensive sample report

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	18 cps	14,673 cps	438,586 cps	140 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	38 cps	2 cps	3 cps	-10 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-10 cps	1 cps	-7 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	10 cps	0 cps	9,405 cps	24 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	5 cps	-4 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	277 cps	5,665 cps	8,685 cps	2,591 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	137,647 cps	21,689 cps	7 cps	2 cps

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

Comprehensive sample report

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STD6 14I24985

Sample Type STD Analysis Date 11/5/2014 11:33:45 AM

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	499.531 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	507.894 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	493.378 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	497.321 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1.5 %			
Concentration SD	7.5 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	496.761 ppm	0.000 ppm	198.293 ppm	99.704 ppm
Concentration per Run 1	504.964 ppm	0.000 ppm	201.467 ppm	101.856 ppm
Concentration per Run 2	492.298 ppm	0.000 ppm	196.649 ppm	98.434 ppm
Concentration per Run 3	493.022 ppm	0.000 ppm	196.764 ppm	98.823 ppm
Concentration RSD	1.4 %		1.4 %	1.9 %
Concentration SD	7.1 ppm		2.7 ppm	1.9 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	498.420 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	506.427 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	495.456 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	493.377 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.4 %		
Concentration SD		7.0 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				

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	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	100.526 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	99.865 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	100.121 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	101.591 ppm	0.000 ppm
Concentration RSD			0.9 %	
Concentration SD			0.9 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	95.346 %	84.554 %	64.558 %
Concentration per Run 1	0.000 ppm	94.225 %	85.237 %	64.918 %
Concentration per Run 2	0.000 ppm	96.142 %	84.680 %	64.792 %
Concentration per Run 3	0.000 ppm	95.671 %	83.745 %	63.964 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	83.070 %	499.632 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	83.216 %	509.077 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	82.655 %	493.250 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	83.338 %	496.570 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.7 %		
Concentration SD		8.3 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,747 cps	1 cps	0 cps	255,857 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	105,596 cps	74,195 cps	4,692 cps	53,635 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	53 cps	28,764 cps	760,820 cps	269 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	45 cps	3 cps	6 cps	-23 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-18 cps	1 cps	-6 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	13 cps	-3 cps	18,343 cps	21 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	8 cps	-5 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	490 cps	5,641 cps	8,242 cps	2,320 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	133,243 cps	43,186 cps	10 cps	-1 cps

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

Comprehensive sample report

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ICV 14I23903

Sample Type QC Analysis Date 11/5/2014 11:43:32 AM

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	9.707 ppm	1.009 ppm	1.003 ppm	9.844 ppm
Concentration per Run 1	9.811 ppm	1.010 ppm	1.002 ppm	9.853 ppm
Concentration per Run 2	9.692 ppm	1.012 ppm	1.001 ppm	9.823 ppm
Concentration per Run 3	9.617 ppm	1.005 ppm	1.007 ppm	9.857 ppm
Concentration RSD	1.0 %	0.4 %	0.3 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	10.367 ppm	9.919 ppm	10.996 ppm	9.828 ppm
Concentration per Run 1	10.395 ppm	9.916 ppm	11.024 ppm	9.860 ppm
Concentration per Run 2	10.351 ppm	9.888 ppm	10.926 ppm	9.777 ppm
Concentration per Run 3	10.356 ppm	9.951 ppm	11.038 ppm	9.847 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.5 %
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	1.010 ppm	9.702 ppm	9.840 ppm	0.406 ppm
Concentration per Run 1	1.015 ppm	9.624 ppm	9.885 ppm	0.408 ppm
Concentration per Run 2	1.007 ppm	9.691 ppm	9.803 ppm	0.405 ppm
Concentration per Run 3	1.008 ppm	9.792 ppm	9.833 ppm	0.406 ppm
Concentration RSD	0.4 %	0.9 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.012 ppm	1.009 ppm	1.003 ppm	0.995 ppm
Concentration per Run 1	1.017 ppm	1.009 ppm	0.993 ppm	0.985 ppm
Concentration per Run 2	1.010 ppm	1.005 ppm	0.995 ppm	0.987 ppm
Concentration per Run 3	1.010 ppm	1.013 ppm	1.020 ppm	1.013 ppm
Concentration RSD	0.4 %	0.4 %	1.5 %	1.5 %
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	1.002 ppm	0.984 ppm	0.995 ppm	1.003 ppm
Concentration per Run 1	0.993 ppm	0.973 ppm	0.987 ppm	0.996 ppm
Concentration per Run 2	0.994 ppm	0.976 ppm	0.986 ppm	0.996 ppm
Concentration per Run 3	1.019 ppm	1.003 ppm	1.011 ppm	1.016 ppm
Concentration RSD	1.5 %	1.7 %	1.4 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.022 ppm	1.036 ppm	0.005 ppm	0.985 ppm
Concentration per Run 1	1.017 ppm	1.030 ppm	0.002 ppm	0.982 ppm
Concentration per Run 2	1.014 ppm	1.029 ppm	0.006 ppm	0.981 ppm
Concentration per Run 3	1.035 ppm	1.049 ppm	0.005 ppm	0.991 ppm
Concentration RSD	1.1 %	1.1 %	45.0 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.037 ppm	1.034 ppm	0.101 ppm	0.999 ppm
Concentration per Run 1	1.032 ppm	1.033 ppm	0.101 ppm	0.991 ppm
Concentration per Run 2	1.031 ppm	1.024 ppm	0.101 ppm	1.005 ppm
Concentration per Run 3	1.049 ppm	1.045 ppm	0.102 ppm	1.001 ppm
Concentration RSD	1.0 %	1.0 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.996 ppm	101.582 %	96.837 %	92.370 %
Concentration per Run 1	0.989 ppm	101.324 %	97.065 %	92.850 %
Concentration per Run 2	1.000 ppm	101.957 %	97.162 %	92.672 %
Concentration per Run 3	1.001 ppm	101.465 %	96.285 %	91.587 %
Concentration RSD	0.7 %	0.3 %	0.5 %	0.7 %
Concentration SD	0.0 ppm	0.3 %	0.5 %	0.7 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	97.747 %	9.985 ppm	0.992 ppm	1.025 ppm
Concentration per Run 1	97.731 %	10.099 ppm	0.982 ppm	1.018 ppm
Concentration per Run 2	97.898 %	9.988 ppm	0.984 ppm	1.019 ppm
Concentration per Run 3	97.611 %	9.868 ppm	1.009 ppm	1.039 ppm
Concentration RSD	0.1 %	1.2 %	1.5 %	1.1 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.007 ppm
Concentration per Run 1	1.007 ppm
Concentration per Run 2	1.005 ppm
Concentration per Run 3	1.009 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	455 cps	343 cps	18,902 cps	5,958 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	2,358 cps	4,476 cps	278 cps	5,633 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	14,375 cps	596 cps	19,635 cps	15,145 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,714 cps	629 cps	3,116 cps	2,277 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	798 cps	942 cps	631 cps	396 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	6,889 cps	3,821 cps	3 cps	2,635 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	627 cps	353 cps	883 cps	6,234 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	49,918 cps	6,010 cps	9,439 cps	3,320 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	156,785 cps	760 cps	3,305 cps	5,222 cps

	Cu 324.754 {104} (Radial)
Intensity average	875 cps

Comprehensive sample report

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ICB

Sample Type QC Analysis Date 11/5/2014 11:47:42 AM

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	-0.003 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 1	-0.052 ppm	-0.004 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 2	0.006 ppm	-0.002 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 3	0.043 ppm	-0.004 ppm	0.000 ppm	0.001 ppm
Concentration RSD	4,292.9 %	37.2 %	143.9 %	128.4 %
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	-0.001 ppm	0.000 ppm	0.005 ppm	0.017 ppm
Concentration per Run 1	0.005 ppm	0.001 ppm	-0.046 ppm	0.017 ppm
Concentration per Run 2	-0.010 ppm	0.002 ppm	-0.014 ppm	0.022 ppm
Concentration per Run 3	0.001 ppm	-0.003 ppm	0.076 ppm	0.013 ppm
Concentration RSD	540.8 %	1,520.4 %	1,209.4 %	25.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.031 ppm	0.014 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.051 ppm	0.014 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.035 ppm	0.019 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.007 ppm	0.010 ppm	0.000 ppm
Concentration RSD	117.0 %	71.4 %	31.5 %	101.4 %
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	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.001 ppm	-0.001 ppm
Concentration per Run 2	-0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	85.5 %	38.4 %	15.3 %	108.0 %
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	-0.001 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	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.001 ppm	0.000 ppm	0.001 ppm
Concentration RSD	120.1 %	39.2 %	134.1 %	69.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	-0.002 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.001 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	-0.003 ppm	0.003 ppm
Concentration RSD	47.4 %	19.8 %	85.9 %	164.1 %
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	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.003 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	42.8 %	285.9 %	178.2 %	163.6 %
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	102.752 %	96.032 %	98.086 %
Concentration per Run 1	0.000 ppm	102.577 %	90.928 %	93.002 %
Concentration per Run 2	0.000 ppm	103.057 %	98.265 %	100.425 %
Concentration per Run 3	0.000 ppm	102.622 %	98.904 %	100.831 %
Concentration RSD	59.1 %	0.3 %	4.6 %	4.5 %
Concentration SD	0.0 ppm	0.3 %	4.4 %	4.4 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.641 %	0.195 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	100.772 %	0.180 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	100.559 %	0.201 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	100.593 %	0.204 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	6.6 %	6.8 %	80.6 %
Concentration SD	0.1 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	0.006 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	-0.002 ppm
Concentration RSD	292.9 %
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	5 cps	0 cps	1 cps	43 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	10 cps	2 cps	1 cps	10 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-32 cps	2 cps	29 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	-1 cps	2 cps	-2 cps	0 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-2 cps	2 cps	-5 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	3 cps	2 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	4 cps	2 cps	-3 cps	6 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	6,079 cps	9,361 cps	3,525 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	161,428 cps	-147 cps	0 cps	6 cps

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

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ICVLL 14G16199

Sample Type QC Analysis Date 11/5/2014 11:52:15 AM

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.074 ppm	0.197 ppm	0.002 ppm	0.491 ppm
Concentration per Run 1	0.057 ppm	0.201 ppm	0.002 ppm	0.493 ppm
Concentration per Run 2	0.078 ppm	0.194 ppm	0.002 ppm	0.487 ppm
Concentration per Run 3	0.089 ppm	0.195 ppm	0.002 ppm	0.493 ppm
Concentration RSD	22.2 %	1.8 %	4.2 %	0.8 %
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	0.511 ppm	0.103 ppm	0.096 ppm	0.504 ppm
Concentration per Run 1	0.510 ppm	0.103 ppm	0.066 ppm	0.507 ppm
Concentration per Run 2	0.507 ppm	0.102 ppm	0.078 ppm	0.504 ppm
Concentration per Run 3	0.518 ppm	0.104 ppm	0.143 ppm	0.501 ppm
Concentration RSD	1.1 %	1.3 %	43.6 %	0.6 %
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	0.016 ppm	0.084 ppm	0.512 ppm	0.010 ppm
Concentration per Run 1	0.016 ppm	0.099 ppm	0.508 ppm	0.010 ppm
Concentration per Run 2	0.016 ppm	0.070 ppm	0.514 ppm	0.010 ppm
Concentration per Run 3	0.016 ppm	0.084 ppm	0.515 ppm	0.010 ppm
Concentration RSD	1.3 %	17.4 %	0.8 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.010 ppm	0.010 ppm	0.009 ppm	0.019 ppm
Concentration per Run 1	0.010 ppm	0.010 ppm	0.009 ppm	0.019 ppm
Concentration per Run 2	0.009 ppm	0.011 ppm	0.009 ppm	0.019 ppm
Concentration per Run 3	0.010 ppm	0.008 ppm	0.009 ppm	0.019 ppm
Concentration RSD	5.0 %	16.5 %	1.5 %	1.5 %
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	0.019 ppm	0.021 ppm
Concentration per Run 1	0.005 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 2	0.005 ppm	0.018 ppm	0.019 ppm	0.021 ppm
Concentration per Run 3	0.004 ppm	0.019 ppm	0.019 ppm	0.019 ppm
Concentration RSD	8.4 %	4.8 %	3.1 %	5.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	4.647 ppm	0.187 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.652 ppm	0.188 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.626 ppm	0.187 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.662 ppm	0.186 ppm
Concentration RSD	1.2 %	1.1 %	0.4 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.020 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.020 ppm	0.021 ppm	0.009 ppm	0.010 ppm
Concentration per Run 2	0.020 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.021 ppm	0.019 ppm	0.009 ppm	0.011 ppm
Concentration RSD	4.0 %	5.1 %	7.0 %	6.8 %
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	0.010 ppm	104.280 %	99.542 %	100.987 %
Concentration per Run 1	0.010 ppm	104.872 %	99.349 %	100.881 %
Concentration per Run 2	0.010 ppm	104.870 %	99.937 %	101.204 %
Concentration per Run 3	0.010 ppm	103.099 %	99.339 %	100.877 %
Concentration RSD	0.2 %	1.0 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	1.0 %	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	101.768 %	0.862 ppm	0.030 ppm	0.005 ppm
Concentration per Run 1	101.714 %	0.883 ppm	0.030 ppm	0.005 ppm
Concentration per Run 2	101.767 %	0.874 ppm	0.030 ppm	0.005 ppm
Concentration per Run 3	101.823 %	0.829 ppm	0.030 ppm	0.005 ppm
Concentration RSD	0.1 %	3.3 %	0.4 %	1.4 %
Concentration SD	0.1 %	0.0 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	0.020 ppm
Concentration per Run 3	0.023 ppm
Concentration RSD	7.6 %
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	9 cps	70 cps	36 cps	348 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	130 cps	50 cps	4 cps	296 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	204 cps	5 cps	1,049 cps	384 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	27 cps	7 cps	31 cps	49 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	21 cps	8 cps	5 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	39 cps	22 cps	1,000 cps	541 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	9 cps	89 cps	73 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	545 cps	6,169 cps	9,703 cps	3,630 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	163,235 cps	-85 cps	104 cps	34 cps

	Cu 324.754 {104} (Radial)
Intensity average	26 cps

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ICSA 14J10823

Sample Type QC Analysis Date 11/5/2014 11:56:46 AM

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	486.358 ppm	-0.008 ppm	0.000 ppm	443.417 ppm
Concentration per Run 1	488.273 ppm	-0.004 ppm	0.000 ppm	447.702 ppm
Concentration per Run 2	485.673 ppm	-0.012 ppm	0.000 ppm	439.780 ppm
Concentration per Run 3	485.127 ppm	-0.007 ppm	0.000 ppm	442.768 ppm
Concentration RSD	0.3 %	51.4 %	177.7 %	0.9 %
Concentration SD	1.7 ppm	0.0 ppm	0.0 ppm	4.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	486.770 ppm	172.893 ppm	194.998 ppm	0.042 ppm
Concentration per Run 1	491.339 ppm	174.269 ppm	196.687 ppm	0.017 ppm
Concentration per Run 2	483.418 ppm	171.950 ppm	193.417 ppm	0.054 ppm
Concentration per Run 3	485.552 ppm	172.462 ppm	194.890 ppm	0.055 ppm
Concentration RSD	0.8 %	0.7 %	0.8 %	51.5 %
Concentration SD	4.1 ppm	1.2 ppm	1.6 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.003 ppm	495.291 ppm	0.038 ppm	0.007 ppm
Concentration per Run 1	0.002 ppm	498.961 ppm	0.032 ppm	0.008 ppm
Concentration per Run 2	0.003 ppm	491.731 ppm	0.042 ppm	0.008 ppm
Concentration per Run 3	0.003 ppm	495.182 ppm	0.041 ppm	0.007 ppm
Concentration RSD	8.9 %	0.7 %	15.1 %	1.2 %
Concentration SD	0.0 ppm	3.6 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	-0.006 ppm	0.006 ppm	0.001 ppm	-0.017 ppm
Concentration per Run 1	-0.006 ppm	0.007 ppm	0.000 ppm	-0.017 ppm
Concentration per Run 2	-0.006 ppm	0.005 ppm	0.001 ppm	-0.016 ppm
Concentration per Run 3	-0.007 ppm	0.007 ppm	0.001 ppm	-0.017 ppm
Concentration RSD	8.1 %	19.2 %	97.2 %	4.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	-0.025 ppm	0.002 ppm	-0.010 ppm	-0.005 ppm
Concentration per Run 1	-0.025 ppm	0.003 ppm	-0.008 ppm	-0.005 ppm
Concentration per Run 2	-0.024 ppm	0.002 ppm	-0.010 ppm	-0.004 ppm
Concentration per Run 3	-0.025 ppm	0.000 ppm	-0.011 ppm	-0.007 ppm
Concentration RSD	3.7 %	77.9 %	14.1 %	23.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	-0.001 ppm	-0.003 ppm	-0.001 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	-0.005 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	-0.002 ppm	-0.003 ppm	-0.001 ppm
Concentration per Run 3	0.002 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	7.5 %	12.8 %	94.2 %	26.9 %
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	-0.007 ppm	0.024 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	-0.007 ppm	0.022 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.010 ppm	0.026 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 3	-0.003 ppm	0.024 ppm	0.000 ppm	0.001 ppm
Concentration RSD	50.4 %	9.3 %	293.0 %	79.0 %
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	95.327 %	84.796 %	69.137 %
Concentration per Run 1	-0.006 ppm	94.619 %	84.423 %	68.964 %
Concentration per Run 2	-0.006 ppm	95.570 %	84.974 %	69.324 %
Concentration per Run 3	-0.005 ppm	95.794 %	84.991 %	69.124 %
Concentration RSD	1.7 %	0.7 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.6 %	0.3 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	84.109 %	-0.017 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 1	84.029 %	-0.006 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 2	84.200 %	0.065 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 3	84.097 %	-0.109 ppm	0.004 ppm	-0.001 ppm
Concentration RSD	0.1 %	516.1 %	7.8 %	3.7 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.004 ppm
Concentration per Run 1	0.006 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	0.003 ppm
Concentration RSD	70.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,172 cps	-1 cps	-1 cps	250,018 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	103,459 cps	73,186 cps	4,613 cps	22 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	10 cps	28,580 cps	72 cps	261 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-15 cps	4 cps	1 cps	-28 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-16 cps	2 cps	-8 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	13 cps	-3 cps	1 cps	19 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	9 cps	0 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	-237 cps	5,639 cps	8,265 cps	2,485 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	134,910 cps	-154 cps	12 cps	1 cps

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

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ICSAB 14J10824

Sample Type QC Analysis Date 11/5/2014 12:01:13 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	485.505 ppm	0.988 ppm	0.488 ppm	446.213 ppm
Concentration per Run 1	493.714 ppm	1.015 ppm	0.497 ppm	453.727 ppm
Concentration per Run 2	479.952 ppm	0.970 ppm	0.485 ppm	443.178 ppm
Concentration per Run 3	482.847 ppm	0.978 ppm	0.483 ppm	441.734 ppm
Concentration RSD	1.5 %	2.4 %	1.5 %	1.5 %
Concentration SD	7.3 ppm	0.0 ppm	0.0 ppm	6.5 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	488.355 ppm	173.510 ppm	196.082 ppm	0.041 ppm
Concentration per Run 1	496.230 ppm	176.271 ppm	199.196 ppm	0.052 ppm
Concentration per Run 2	484.354 ppm	172.398 ppm	195.162 ppm	0.038 ppm
Concentration per Run 3	484.481 ppm	171.861 ppm	193.889 ppm	0.031 ppm
Concentration RSD	1.4 %	1.4 %	1.4 %	25.7 %
Concentration SD	6.8 ppm	2.4 ppm	2.8 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	499.194 ppm	0.046 ppm	0.007 ppm
Concentration per Run 1	0.005 ppm	507.692 ppm	0.045 ppm	0.008 ppm
Concentration per Run 2	0.004 ppm	496.299 ppm	0.048 ppm	0.007 ppm
Concentration per Run 3	0.003 ppm	493.591 ppm	0.046 ppm	0.007 ppm
Concentration RSD	15.8 %	1.5 %	3.8 %	3.2 %
Concentration SD	0.0 ppm	7.5 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.483 ppm	0.481 ppm	0.492 ppm	0.961 ppm
Concentration per Run 1	0.492 ppm	0.493 ppm	0.491 ppm	0.957 ppm
Concentration per Run 2	0.481 ppm	0.477 ppm	0.492 ppm	0.962 ppm
Concentration per Run 3	0.477 ppm	0.474 ppm	0.494 ppm	0.963 ppm
Concentration RSD	1.6 %	2.2 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.924 ppm	0.485 ppm	0.446 ppm	0.497 ppm
Concentration per Run 1	0.921 ppm	0.484 ppm	0.442 ppm	0.495 ppm
Concentration per Run 2	0.929 ppm	0.485 ppm	0.448 ppm	0.495 ppm
Concentration per Run 3	0.922 ppm	0.487 ppm	0.448 ppm	0.500 ppm
Concentration RSD	0.5 %	0.3 %	0.8 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.462 ppm	0.454 ppm	-0.001 ppm	0.939 ppm
Concentration per Run 1	0.461 ppm	0.453 ppm	0.001 ppm	0.936 ppm
Concentration per Run 2	0.463 ppm	0.456 ppm	-0.002 ppm	0.937 ppm
Concentration per Run 3	0.462 ppm	0.454 ppm	-0.002 ppm	0.943 ppm
Concentration RSD	0.2 %	0.3 %	129.9 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.502 ppm	0.536 ppm	1.118 ppm	0.456 ppm
Concentration per Run 1	0.501 ppm	0.535 ppm	1.118 ppm	0.456 ppm
Concentration per Run 2	0.496 ppm	0.532 ppm	1.118 ppm	0.454 ppm
Concentration per Run 3	0.509 ppm	0.541 ppm	1.118 ppm	0.457 ppm
Concentration RSD	1.2 %	0.9 %	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	0.449 ppm	94.623 %	85.632 %	69.562 %
Concentration per Run 1	0.448 ppm	92.919 %	85.619 %	69.566 %
Concentration per Run 2	0.447 ppm	95.233 %	85.988 %	69.869 %
Concentration per Run 3	0.453 ppm	95.717 %	85.289 %	69.251 %
Concentration RSD	0.7 %	1.6 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	1.5 %	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	84.316 %	-0.031 ppm	0.879 ppm	1.035 ppm
Concentration per Run 1	84.417 %	-0.056 ppm	0.875 ppm	1.033 ppm
Concentration per Run 2	84.291 %	0.050 ppm	0.880 ppm	1.034 ppm
Concentration per Run 3	84.240 %	-0.086 ppm	0.881 ppm	1.037 ppm
Concentration RSD	0.1 %	231.8 %	0.4 %	0.2 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.508 ppm
Concentration per Run 1	0.521 ppm
Concentration per Run 2	0.504 ppm
Concentration per Run 3	0.498 ppm
Concentration RSD	2.3 %
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	20,976 cps	312 cps	8,563 cps	249,705 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	103,018 cps	72,895 cps	4,604 cps	21 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	30 cps	28,589 cps	86 cps	256 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,208 cps	280 cps	1,152 cps	1,656 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	554 cps	350 cps	211 cps	172 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,755 cps	1,483 cps	2 cps	2,168 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	269 cps	163 cps	8,390 cps	2,456 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	19,414 cps	5,598 cps	8,347 cps	2,500 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	135,241 cps	-154 cps	2,590 cps	4,660 cps

	Cu 324.754 {104} (Radial)
Intensity average	414 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.474 ppm	-0.304 ppm	-0.014 ppm	3.268 ppm
Concentration per Run 1	1.270 ppm	-0.690 ppm	-0.016 ppm	3.118 ppm
Concentration per Run 2	-1.897 ppm	0.024 ppm	-0.021 ppm	3.289 ppm
Concentration per Run 3	2.048 ppm	-0.245 ppm	-0.004 ppm	3.398 ppm
Concentration RSD	441.0 %	118.7 %	64.0 %	4.3 %
Concentration SD	2.1 ppm	0.4 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	3.308 ppm	2.048 ppm	1.153 ppm	8.412 ppm
Concentration per Run 1	4.289 ppm	2.301 ppm	6.855 ppm	7.203 ppm
Concentration per Run 2	2.365 ppm	1.797 ppm	-6.075 ppm	8.564 ppm
Concentration per Run 3	3.270 ppm	2.045 ppm	2.680 ppm	9.469 ppm
Concentration RSD	29.1 %	12.3 %	572.1 %	13.6 %
Concentration SD	1.0 ppm	0.3 ppm	6.6 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	0.328 ppm	1.929 ppm	10.677 ppm	0.002 ppm
Concentration per Run 1	0.382 ppm	3.227 ppm	11.791 ppm	0.003 ppm
Concentration per Run 2	0.285 ppm	1.407 ppm	10.726 ppm	0.000 ppm
Concentration per Run 3	0.315 ppm	1.153 ppm	9.513 ppm	0.002 ppm
Concentration RSD	15.1 %	58.6 %	10.7 %	86.4 %
Concentration SD	0.0 ppm	1.1 ppm	1.1 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	0.012 ppm	0.017 ppm	-0.023 ppm	0.029 ppm
Concentration per Run 1	0.075 ppm	-0.170 ppm	0.002 ppm	0.037 ppm
Concentration per Run 2	-0.059 ppm	0.194 ppm	-0.043 ppm	0.005 ppm
Concentration per Run 3	0.019 ppm	0.025 ppm	-0.029 ppm	0.045 ppm
Concentration RSD	580.1 %	1,099.2 %	98.8 %	72.4 %
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	-0.017 ppm	1.994 ppm	-0.085 ppm	0.099 ppm
Concentration per Run 1	0.025 ppm	2.018 ppm	-0.117 ppm	0.168 ppm
Concentration per Run 2	-0.037 ppm	2.032 ppm	-0.062 ppm	0.156 ppm
Concentration per Run 3	-0.038 ppm	1.932 ppm	-0.078 ppm	-0.026 ppm
Concentration RSD	214.9 %	2.7 %	33.1 %	109.2 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.1 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.041 ppm	0.013 ppm	4.323 ppm	2.486 ppm
Concentration per Run 1	0.047 ppm	0.003 ppm	4.711 ppm	2.435 ppm
Concentration per Run 2	0.034 ppm	0.014 ppm	4.148 ppm	2.565 ppm
Concentration per Run 3	0.042 ppm	0.021 ppm	4.111 ppm	2.457 ppm
Concentration RSD	15.6 %	73.4 %	7.8 %	2.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.049 ppm	0.027 ppm	0.023 ppm	0.082 ppm
Concentration per Run 1	-0.066 ppm	-0.113 ppm	0.023 ppm	0.136 ppm
Concentration per Run 2	0.007 ppm	0.061 ppm	0.056 ppm	0.058 ppm
Concentration per Run 3	-0.088 ppm	0.132 ppm	-0.010 ppm	0.050 ppm
Concentration RSD	101.8 %	476.9 %	144.9 %	58.3 %
Concentration SD	0.0 ppm	0.1 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	0.040 ppm	103.914 %	98.298 %	101.041 %
Concentration per Run 1	0.034 ppm	103.266 %	98.994 %	101.656 %
Concentration per Run 2	0.033 ppm	103.312 %	98.041 %	100.903 %
Concentration per Run 3	0.053 ppm	105.164 %	97.858 %	100.565 %
Concentration RSD	27.4 %	1.0 %	0.6 %	0.6 %
Concentration SD	0.0 ppm	1.1 %	0.6 %	0.6 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	102.115 %	38.153 ppm	1.648 ppm	0.014 ppm
Concentration per Run 1	101.933 %	46.193 ppm	1.631 ppm	0.011 ppm
Concentration per Run 2	102.443 %	38.375 ppm	1.651 ppm	0.010 ppm
Concentration per Run 3	101.969 %	29.891 ppm	1.663 ppm	0.019 ppm
Concentration RSD	0.3 %	21.4 %	1.0 %	37.7 %
Concentration SD	0.3 %	8.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.073 ppm
Concentration per Run 1	0.222 ppm
Concentration per Run 2	-0.156 ppm
Concentration per Run 3	0.152 ppm
Concentration RSD	276.7 %
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	6 cps	0 cps	-3 cps	66 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	19 cps	12 cps	1 cps	51 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	23 cps	1 cps	227 cps	0 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1 cps	1 cps	-1 cps	2 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	23 cps	-6 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	4 cps	3 cps	12 cps	97 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	4 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	26 cps	6,147 cps	9,581 cps	3,632 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	163,792 cps	-129 cps	58 cps	6 cps

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

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	12,734.178 ppm	130.324 ppm	97.566 ppm
Concentration per Run 1	12,618.624 ppm	128.689 ppm	96.598 ppm
Concentration per Run 2	13,020.914 ppm	132.762 ppm	99.777 ppm
Concentration per Run 3	12,562.997 ppm	129.522 ppm	96.324 ppm
Concentration RSD	2.0 %	1.7 %	2.0 %
Concentration SD	249.9 ppm	2.2 ppm	1.9 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	6,819.598 ppm	7,350.923 ppm	13,033.603 ppm
Concentration per Run 1	6,803.543 ppm	7,324.879 ppm	12,966.641 ppm
Concentration per Run 2	6,961.167 ppm	7,512.250 ppm	13,307.550 ppm
Concentration per Run 3	6,694.083 ppm	7,215.640 ppm	12,826.618 ppm
Concentration RSD	2.0 %	2.0 %	1.9 %
Concentration SD	134.3 ppm	150.0 ppm	247.4 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	14,721.390 ppm	3,277.916 ppm	10.276 ppm
Concentration per Run 1	14,619.122 ppm	3,255.425 ppm	10.066 ppm
Concentration per Run 2	15,020.888 ppm	3,336.543 ppm	10.557 ppm
Concentration per Run 3	14,524.160 ppm	3,241.781 ppm	10.203 ppm
Concentration RSD	1.8 %	1.6 %	2.5 %
Concentration SD	263.7 ppm	51.2 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3,206.694 ppm	588.695 ppm	136.194 ppm
Concentration per Run 1	3,198.995 ppm	583.297 ppm	134.554 ppm
Concentration per Run 2	3,268.247 ppm	599.191 ppm	138.937 ppm
Concentration per Run 3	3,152.841 ppm	583.597 ppm	135.090 ppm
Concentration RSD	1.8 %	1.5 %	1.8 %
Concentration SD	58.1 ppm	9.1 ppm	2.4 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	378.019 ppm	128.251 ppm	199.551 ppm
Concentration per Run 1	374.693 ppm	127.308 ppm	202.148 ppm
Concentration per Run 2	385.680 ppm	130.655 ppm	200.299 ppm
Concentration per Run 3	373.685 ppm	126.790 ppm	196.206 ppm
Concentration RSD	1.8 %	1.6 %	1.5 %
Concentration SD	6.7 ppm	2.1 ppm	3.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	131.263 ppm	110.826 ppm	112.139 ppm
Concentration per Run 1	132.992 ppm	112.346 ppm	113.585 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	131.765 ppm	111.380 ppm	112.673 ppm
Concentration per Run 3	129.033 ppm	108.752 ppm	110.158 ppm
Concentration RSD	1.5 %	1.7 %	1.6 %
Concentration SD	2.0 ppm	1.9 ppm	1.8 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	118.772 ppm	255.792 ppm	262.283 ppm
Concentration per Run 1	119.985 ppm	257.735 ppm	264.884 ppm
Concentration per Run 2	119.415 ppm	257.806 ppm	263.688 ppm
Concentration per Run 3	116.916 ppm	251.836 ppm	258.276 ppm
Concentration RSD	1.4 %	1.3 %	1.3 %
Concentration SD	1.6 ppm	3.4 ppm	3.5 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	97.916 ppm	256.030 ppm	1,249.333 ppm
Concentration per Run 1	98.895 ppm	258.933 ppm	1,238.844 ppm
Concentration per Run 2	98.419 ppm	257.094 ppm	1,230.676 ppm
Concentration per Run 3	96.433 ppm	252.064 ppm	1,278.480 ppm
Concentration RSD	1.3 %	1.4 %	2.0 %
Concentration SD	1.3 ppm	3.6 ppm	25.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	97.677 ppm	127.112 ppm	53.110 ppm
Concentration per Run 1	98.892 ppm	128.255 ppm	52.778 ppm
Concentration per Run 2	97.496 ppm	127.546 ppm	52.413 ppm
Concentration per Run 3	96.643 ppm	125.537 ppm	54.140 ppm
Concentration RSD	1.2 %	1.1 %	1.7 %
Concentration SD	1.1 ppm	1.4 ppm	0.9 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	131.965 ppm	359.822 ppm	108.633 %
Concentration per Run 1	130.807 ppm	355.894 ppm	107.913 %
Concentration per Run 2	130.580 ppm	356.179 ppm	107.355 %
Concentration per Run 3	134.508 ppm	367.393 ppm	110.632 %
Concentration RSD	1.7 %	1.8 %	1.6 %
Concentration SD	2.2 ppm	6.6 ppm	1.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	96.733 %	82.267 %	96.290 %
Concentration per Run 1	96.062 %	81.555 %	96.835 %
Concentration per Run 2	96.259 %	81.920 %	97.455 %
Concentration per Run 3	97.879 %	83.326 %	94.581 %
Concentration RSD	1.0 %	1.1 %	1.6 %
Concentration SD	1.0 %	0.9 %	1.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	637.711 ppm	184.866 ppm	208.776 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	628.292 ppm	187.123 ppm	211.310 ppm
Concentration per Run 2	655.172 ppm	185.771 ppm	210.134 ppm
Concentration per Run 3	629.670 ppm	181.703 ppm	204.884 ppm
Concentration RSD	2.4 %	1.5 %	1.6 %
Concentration SD	15.1 ppm	2.8 ppm	3.4 ppm

	Cu 324.754 {104} (Radial)
Concentration average	128.284 ppm
Concentration per Run 1	127.262 ppm
Concentration per Run 2	130.002 ppm
Concentration per Run 3	127.588 ppm
Concentration RSD	1.2 %
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	6,320 cps	472 cps	19,653 cps	43,852 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	17,811 cps	62,864 cps	3,969 cps	20,091 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,539 cps	2,108 cps	12,561 cps	54,293 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	10,837 cps	855 cps	5,524 cps	2,675 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	786 cps	956 cps	672 cps	1,014 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	17,654 cps	3,608 cps	537 cps	32,663 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	590 cps	433 cps	4,553 cps	8,106 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	177,517 cps	6,427 cps	9,429 cps	2,957 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	154,449 cps	456 cps	6,154 cps	10,616 cps

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	Cu 324.754 {104} (Radial)
Intensity average	1,191 cps

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LCSD WG750667

Sample Type UNKNOWN Analysis Date 11/5/2014 12:18:25 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	13,507.850 ppm	140.938 ppm	104.084 ppm
Concentration per Run 1	13,536.603 ppm	141.897 ppm	104.237 ppm
Concentration per Run 2	13,540.177 ppm	140.038 ppm	104.201 ppm
Concentration per Run 3	13,446.769 ppm	140.879 ppm	103.814 ppm
Concentration RSD	0.4 %	0.7 %	0.2 %
Concentration SD	52.9 ppm	0.9 ppm	0.2 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	7,160.968 ppm	7,682.219 ppm	13,883.631 ppm
Concentration per Run 1	7,165.758 ppm	7,692.452 ppm	13,904.693 ppm
Concentration per Run 2	7,164.124 ppm	7,689.548 ppm	13,897.749 ppm
Concentration per Run 3	7,153.023 ppm	7,664.657 ppm	13,848.450 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %
Concentration SD	6.9 ppm	15.3 ppm	30.7 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	15,636.958 ppm	3,482.647 ppm	10.970 ppm
Concentration per Run 1	15,644.566 ppm	3,493.098 ppm	11.032 ppm
Concentration per Run 2	15,672.435 ppm	3,479.915 ppm	10.913 ppm
Concentration per Run 3	15,593.874 ppm	3,474.928 ppm	10.965 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %
Concentration SD	39.8 ppm	9.4 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3,423.479 ppm	632.577 ppm	144.150 ppm
Concentration per Run 1	3,419.728 ppm	633.767 ppm	144.640 ppm
Concentration per Run 2	3,433.457 ppm	633.630 ppm	144.163 ppm
Concentration per Run 3	3,417.252 ppm	630.334 ppm	143.648 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %
Concentration SD	8.7 ppm	1.9 ppm	0.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	406.209 ppm	136.742 ppm	206.369 ppm
Concentration per Run 1	406.678 ppm	137.379 ppm	207.130 ppm
Concentration per Run 2	406.201 ppm	136.268 ppm	205.792 ppm
Concentration per Run 3	405.748 ppm	136.578 ppm	206.187 ppm
Concentration RSD	0.1 %	0.4 %	0.3 %
Concentration SD	0.5 ppm	0.6 ppm	0.7 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	135.719 ppm	112.726 ppm	115.350 ppm
Concentration per Run 1	135.932 ppm	112.979 ppm	115.451 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	135.468 ppm	112.599 ppm	115.119 ppm
Concentration per Run 3	135.759 ppm	112.599 ppm	115.482 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %
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	122.898 ppm	260.954 ppm	268.464 ppm
Concentration per Run 1	122.978 ppm	261.482 ppm	269.139 ppm
Concentration per Run 2	122.764 ppm	260.962 ppm	268.233 ppm
Concentration per Run 3	122.951 ppm	260.419 ppm	268.020 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %
Concentration SD	0.1 ppm	0.5 ppm	0.6 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	101.754 ppm	260.340 ppm	1,238.457 ppm
Concentration per Run 1	101.987 ppm	261.027 ppm	1,230.796 ppm
Concentration per Run 2	101.742 ppm	259.439 ppm	1,244.621 ppm
Concentration per Run 3	101.533 ppm	260.554 ppm	1,239.955 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %
Concentration SD	0.2 ppm	0.8 ppm	7.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	100.803 ppm	128.452 ppm	52.296 ppm
Concentration per Run 1	101.329 ppm	128.712 ppm	52.230 ppm
Concentration per Run 2	100.808 ppm	128.224 ppm	52.573 ppm
Concentration per Run 3	100.272 ppm	128.420 ppm	52.084 ppm
Concentration RSD	0.5 %	0.2 %	0.5 %
Concentration SD	0.5 ppm	0.2 ppm	0.3 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	136.256 ppm	348.766 ppm	104.799 %
Concentration per Run 1	135.250 ppm	346.856 ppm	104.620 %
Concentration per Run 2	136.605 ppm	349.809 ppm	104.278 %
Concentration per Run 3	136.914 ppm	349.632 ppm	105.499 %
Concentration RSD	0.6 %	0.5 %	0.6 %
Concentration SD	0.9 ppm	1.7 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	95.603 %	81.038 %	96.050 %
Concentration per Run 1	95.279 %	80.761 %	95.879 %
Concentration per Run 2	95.659 %	81.168 %	96.647 %
Concentration per Run 3	95.871 %	81.186 %	95.623 %
Concentration RSD	0.3 %	0.3 %	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	676.516 ppm	189.676 ppm	215.399 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	681.740 ppm	189.910 ppm	215.918 ppm
Concentration per Run 2	676.240 ppm	189.212 ppm	215.484 ppm
Concentration per Run 3	671.567 ppm	189.907 ppm	214.794 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %
Concentration SD	5.1 ppm	0.4 ppm	0.6 ppm

	Cu 324.754 {104} (Radial)
Concentration average	135.354 ppm
Concentration per Run 1	134.768 ppm
Concentration per Run 2	135.972 ppm
Concentration per Run 3	135.321 ppm
Concentration RSD	0.4 %
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	6,598 cps	503 cps	20,633 cps	45,316 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	18,319 cps	65,902 cps	4,149 cps	21,006 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,619 cps	2,215 cps	13,282 cps	56,550 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	11,460 cps	897 cps	5,741 cps	2,779 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	804 cps	988 cps	698 cps	1,043 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	18,218 cps	3,780 cps	550 cps	32,950 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	441 cps	4,562 cps	8,517 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	175,099 cps	6,200 cps	9,319 cps	2,913 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	154,063 cps	490 cps	6,366 cps	11,043 cps

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	Cu 324.754 {104} (Radial)
Intensity average	1,236 cps

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Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	10,776.085 ppm	7.889 ppm	0.409 ppm
Concentration per Run 1	10,778.231 ppm	9.315 ppm	0.410 ppm
Concentration per Run 2	10,730.519 ppm	8.011 ppm	0.428 ppm
Concentration per Run 3	10,819.506 ppm	6.341 ppm	0.390 ppm
Concentration RSD	0.4 %	18.9 %	4.6 %
Concentration SD	44.5 ppm	1.5 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	99,942.541 ppm	107,172.510 ppm	10,477.046 ppm
Concentration per Run 1	99,757.745 ppm	106,956.186 ppm	10,474.810 ppm
Concentration per Run 2	99,576.384 ppm	106,747.313 ppm	10,470.981 ppm
Concentration per Run 3	100,493.495 ppm	107,814.031 ppm	10,485.347 ppm
Concentration RSD	0.5 %	0.5 %	0.1 %
Concentration SD	485.7 ppm	565.3 ppm	7.4 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	11,422.919 ppm	2,478.621 ppm	13.624 ppm
Concentration per Run 1	11,489.245 ppm	2,479.806 ppm	13.579 ppm
Concentration per Run 2	11,351.962 ppm	2,478.150 ppm	13.517 ppm
Concentration per Run 3	11,427.550 ppm	2,477.907 ppm	13.776 ppm
Concentration RSD	0.6 %	0.0 %	1.0 %
Concentration SD	68.8 ppm	1.0 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	4,681.469 ppm	826.765 ppm	232.335 ppm
Concentration per Run 1	4,708.592 ppm	827.760 ppm	231.989 ppm
Concentration per Run 2	4,631.062 ppm	823.948 ppm	233.277 ppm
Concentration per Run 3	4,704.753 ppm	828.586 ppm	231.737 ppm
Concentration RSD	0.9 %	0.3 %	0.4 %
Concentration SD	43.7 ppm	2.5 ppm	0.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	217.847 ppm	23.626 ppm	4.135 ppm
Concentration per Run 1	216.802 ppm	21.731 ppm	4.100 ppm
Concentration per Run 2	219.298 ppm	25.381 ppm	4.147 ppm
Concentration per Run 3	217.440 ppm	23.764 ppm	4.157 ppm
Concentration RSD	0.6 %	7.7 %	0.7 %
Concentration SD	1.3 ppm	1.8 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	8.354 ppm	4.481 ppm	1.425 ppm
Concentration per Run 1	8.524 ppm	4.724 ppm	1.626 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	8.507 ppm	4.004 ppm	1.406 ppm
Concentration per Run 3	8.030 ppm	4.716 ppm	1.241 ppm
Concentration RSD	3.4 %	9.2 %	13.6 %
Concentration SD	0.3 ppm	0.4 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.456 ppm	0.715 ppm	62.957 ppm
Concentration per Run 1	-1.432 ppm	1.429 ppm	63.183 ppm
Concentration per Run 2	-0.779 ppm	0.035 ppm	62.688 ppm
Concentration per Run 3	-2.157 ppm	0.679 ppm	63.000 ppm
Concentration RSD	47.3 %	97.6 %	0.4 %
Concentration SD	0.7 ppm	0.7 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.044 ppm	16,973.379 ppm	1,780.881 ppm
Concentration per Run 1	0.123 ppm	16,957.283 ppm	1,789.843 ppm
Concentration per Run 2	-0.044 ppm	16,960.974 ppm	1,768.228 ppm
Concentration per Run 3	0.054 ppm	17,001.880 ppm	1,784.571 ppm
Concentration RSD	189.5 %	0.1 %	0.6 %
Concentration SD	0.1 ppm	24.8 ppm	11.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.534 ppm	1.184 ppm	-0.599 ppm
Concentration per Run 1	-0.899 ppm	1.700 ppm	-0.434 ppm
Concentration per Run 2	0.117 ppm	0.653 ppm	-0.869 ppm
Concentration per Run 3	-0.819 ppm	1.201 ppm	-0.493 ppm
Concentration RSD	105.8 %	44.2 %	39.4 %
Concentration SD	0.6 ppm	0.5 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	12.493 ppm	153.455 ppm	100.138 %
Concentration per Run 1	12.544 ppm	154.241 ppm	99.978 %
Concentration per Run 2	12.622 ppm	152.780 ppm	100.328 %
Concentration per Run 3	12.313 ppm	153.345 ppm	100.107 %
Concentration RSD	1.3 %	0.5 %	0.2 %
Concentration SD	0.2 ppm	0.7 ppm	0.2 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.928 %	84.093 %	93.214 %
Concentration per Run 1	92.721 %	83.990 %	93.520 %
Concentration per Run 2	93.105 %	84.116 %	93.205 %
Concentration per Run 3	92.957 %	84.173 %	92.917 %
Concentration RSD	0.2 %	0.1 %	0.3 %
Concentration SD	0.2 %	0.1 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	823.966 ppm	27.268 ppm	0.198 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	853.251 ppm	27.202 ppm	0.139 ppm
Concentration per Run 2	827.351 ppm	27.237 ppm	0.156 ppm
Concentration per Run 3	791.297 ppm	27.363 ppm	0.298 ppm
Concentration RSD	3.8 %	0.3 %	44.2 %
Concentration SD	31.1 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	5.506 ppm
Concentration per Run 1	5.737 ppm
Concentration per Run 2	6.180 ppm
Concentration per Run 3	4.600 ppm
Concentration RSD	14.8 %
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	1,050 cps	7 cps	16 cps	125,521 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	50,735 cps	9,879 cps	603 cps	2,969 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	380 cps	601 cps	3,448 cps	18,101 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,221 cps	31 cps	24 cps	38 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	6 cps	4 cps	-6 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	864 cps	3 cps	7,218 cps	9,573 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	3 cps	-9 cps	164 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	15,544 cps	5,924 cps	9,058 cps	3,023 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	149,514 cps	-1 cps	185 cps	7 cps

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	Cu 324.754 {104} (Radial)
Intensity average	16 cps

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SD L729564-05 WG750667

Sample Type UNKNOWN Analysis Date 11/5/2014 12:26:49 PM

Dilution Factor 25

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	10,851.907 ppm	-0.152 ppm	0.172 ppm
Concentration per Run 1	10,681.754 ppm	-2.034 ppm	0.000 ppm
Concentration per Run 2	10,910.460 ppm	-6.624 ppm	0.484 ppm
Concentration per Run 3	10,963.508 ppm	8.203 ppm	0.033 ppm
Concentration RSD	1.4 %	4,999.4 %	157.2 %
Concentration SD	149.7 ppm	7.6 ppm	0.3 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	104,612.271 ppm	110,104.687 ppm	11,042.939 ppm
Concentration per Run 1	104,354.533 ppm	109,754.976 ppm	10,990.702 ppm
Concentration per Run 2	104,066.739 ppm	109,453.280 ppm	11,012.237 ppm
Concentration per Run 3	105,415.540 ppm	111,105.804 ppm	11,125.879 ppm
Concentration RSD	0.7 %	0.8 %	0.7 %
Concentration SD	710.4 ppm	880.0 ppm	72.6 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	11,902.395 ppm	2,522.206 ppm	13.224 ppm
Concentration per Run 1	11,643.011 ppm	2,518.776 ppm	12.202 ppm
Concentration per Run 2	11,864.868 ppm	2,510.711 ppm	13.047 ppm
Concentration per Run 3	12,199.307 ppm	2,537.132 ppm	14.425 ppm
Concentration RSD	2.4 %	0.5 %	8.5 %
Concentration SD	280.0 ppm	13.5 ppm	1.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	4,789.488 ppm	837.373 ppm	239.234 ppm
Concentration per Run 1	4,706.746 ppm	833.163 ppm	237.925 ppm
Concentration per Run 2	4,768.337 ppm	841.632 ppm	239.542 ppm
Concentration per Run 3	4,893.383 ppm	837.325 ppm	240.236 ppm
Concentration RSD	2.0 %	0.5 %	0.5 %
Concentration SD	95.1 ppm	4.2 ppm	1.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	225.126 ppm	19.169 ppm	3.573 ppm
Concentration per Run 1	226.135 ppm	16.014 ppm	2.954 ppm
Concentration per Run 2	225.697 ppm	19.824 ppm	3.681 ppm
Concentration per Run 3	223.545 ppm	21.671 ppm	4.084 ppm
Concentration RSD	0.6 %	15.0 %	16.0 %
Concentration SD	1.4 ppm	2.9 ppm	0.6 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	9.348 ppm	2.195 ppm	0.406 ppm
Concentration per Run 1	9.328 ppm	0.502 ppm	-1.139 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	8.768 ppm	1.672 ppm	2.273 ppm
Concentration per Run 3	9.948 ppm	4.412 ppm	0.084 ppm
Concentration RSD	6.3 %	91.4 %	425.8 %
Concentration SD	0.6 ppm	2.0 ppm	1.7 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-4.772 ppm	-0.415 ppm	67.994 ppm
Concentration per Run 1	-5.947 ppm	-0.300 ppm	66.427 ppm
Concentration per Run 2	-3.423 ppm	-1.574 ppm	66.070 ppm
Concentration per Run 3	-4.946 ppm	0.630 ppm	71.486 ppm
Concentration RSD	26.6 %	266.9 %	4.5 %
Concentration SD	1.3 ppm	1.1 ppm	3.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	-0.167 ppm	17,318.216 ppm	1,228.959 ppm
Concentration per Run 1	-0.402 ppm	16,847.471 ppm	1,233.561 ppm
Concentration per Run 2	-0.439 ppm	16,841.394 ppm	1,225.973 ppm
Concentration per Run 3	0.338 ppm	18,265.783 ppm	1,227.342 ppm
Concentration RSD	261.9 %	4.7 %	0.3 %
Concentration SD	0.4 ppm	820.6 ppm	4.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-1.331 ppm	3.998 ppm	-2.168 ppm
Concentration per Run 1	-1.930 ppm	1.371 ppm	-2.143 ppm
Concentration per Run 2	1.011 ppm	5.253 ppm	-2.108 ppm
Concentration per Run 3	-3.072 ppm	5.371 ppm	-2.252 ppm
Concentration RSD	158.3 %	56.9 %	3.4 %
Concentration SD	2.1 ppm	2.3 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	15.512 ppm	162.687 ppm	101.819 %
Concentration per Run 1	15.687 ppm	163.020 ppm	101.564 %
Concentration per Run 2	15.053 ppm	162.636 ppm	103.129 %
Concentration per Run 3	15.797 ppm	162.404 ppm	100.764 %
Concentration RSD	2.6 %	0.2 %	1.2 %
Concentration SD	0.4 ppm	0.3 ppm	1.2 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.679 %	92.067 %	97.908 %
Concentration per Run 1	96.548 %	93.923 %	97.983 %
Concentration per Run 2	96.674 %	93.935 %	97.852 %
Concentration per Run 3	90.816 %	88.343 %	97.889 %
Concentration RSD	3.5 %	3.5 %	0.1 %
Concentration SD	3.3 %	3.2 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,026.766 ppm	28.064 ppm	0.462 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,031.208 ppm	27.096 ppm	0.306 ppm
Concentration per Run 2	1,065.917 ppm	27.493 ppm	0.560 ppm
Concentration per Run 3	983.173 ppm	29.603 ppm	0.519 ppm
Concentration RSD	4.0 %	4.8 %	29.6 %
Concentration SD	41.6 ppm	1.3 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	11.093 ppm
Concentration per Run 1	15.830 ppm
Concentration per Run 2	13.594 ppm
Concentration per Run 3	3.854 ppm
Concentration RSD	57.4 %
Concentration SD	6.4 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	219 cps	2 cps	1 cps	26,752 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	10,607 cps	2,119 cps	129 cps	614 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	54 cps	125 cps	710 cps	3,790 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	257 cps	6 cps	4 cps	10 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	2 cps	-6 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	191 cps	2 cps	1,501 cps	1,408 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	3 cps	-7 cps	48 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	3,465 cps	6,024 cps	9,229 cps	3,309 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	157,043 cps	-123 cps	39 cps	6 cps

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	Cu 324.754 {104} (Radial)
Intensity average	10 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	10,353.296 ppm	7.329 ppm	0.334 ppm
Concentration per Run 1	10,280.110 ppm	9.210 ppm	0.341 ppm
Concentration per Run 2	10,303.242 ppm	6.182 ppm	0.328 ppm
Concentration per Run 3	10,476.536 ppm	6.596 ppm	0.334 ppm
Concentration RSD	1.0 %	22.4 %	1.8 %
Concentration SD	107.4 ppm	1.6 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	95,398.423 ppm	102,457.863 ppm	10,058.363 ppm
Concentration per Run 1	94,822.109 ppm	101,704.376 ppm	9,982.006 ppm
Concentration per Run 2	95,662.947 ppm	102,803.406 ppm	10,074.179 ppm
Concentration per Run 3	95,710.214 ppm	102,865.808 ppm	10,118.904 ppm
Concentration RSD	0.5 %	0.6 %	0.7 %
Concentration SD	499.7 ppm	653.3 ppm	69.8 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	10,889.921 ppm	2,366.830 ppm	13.278 ppm
Concentration per Run 1	10,836.917 ppm	2,352.549 ppm	13.372 ppm
Concentration per Run 2	10,863.914 ppm	2,373.234 ppm	13.413 ppm
Concentration per Run 3	10,968.930 ppm	2,374.706 ppm	13.047 ppm
Concentration RSD	0.6 %	0.5 %	1.5 %
Concentration SD	69.7 ppm	12.4 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	4,471.611 ppm	795.970 ppm	224.412 ppm
Concentration per Run 1	4,423.138 ppm	795.873 ppm	223.788 ppm
Concentration per Run 2	4,510.906 ppm	793.628 ppm	224.558 ppm
Concentration per Run 3	4,480.788 ppm	798.409 ppm	224.891 ppm
Concentration RSD	1.0 %	0.3 %	0.3 %
Concentration SD	44.6 ppm	2.4 ppm	0.6 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	212.837 ppm	22.244 ppm	3.966 ppm
Concentration per Run 1	211.230 ppm	22.860 ppm	3.922 ppm
Concentration per Run 2	213.459 ppm	21.412 ppm	4.016 ppm
Concentration per Run 3	213.823 ppm	22.460 ppm	3.960 ppm
Concentration RSD	0.7 %	3.4 %	1.2 %
Concentration SD	1.4 ppm	0.7 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	8.186 ppm	4.928 ppm	1.452 ppm
Concentration per Run 1	8.092 ppm	4.953 ppm	1.283 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	8.168 ppm	5.112 ppm	1.145 ppm
Concentration per Run 3	8.298 ppm	4.719 ppm	1.929 ppm
Concentration RSD	1.3 %	4.0 %	28.8 %
Concentration SD	0.1 ppm	0.2 ppm	0.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.838 ppm	0.371 ppm	60.182 ppm
Concentration per Run 1	-1.925 ppm	0.741 ppm	59.945 ppm
Concentration per Run 2	-1.822 ppm	-0.919 ppm	60.377 ppm
Concentration per Run 3	-1.768 ppm	1.293 ppm	60.222 ppm
Concentration RSD	4.3 %	310.0 %	0.4 %
Concentration SD	0.1 ppm	1.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.008 ppm	16,308.698 ppm	1,794.208 ppm
Concentration per Run 1	0.003 ppm	16,268.628 ppm	1,780.639 ppm
Concentration per Run 2	0.027 ppm	16,351.855 ppm	1,793.152 ppm
Concentration per Run 3	-0.006 ppm	16,305.612 ppm	1,808.832 ppm
Concentration RSD	207.3 %	0.3 %	0.8 %
Concentration SD	0.0 ppm	41.7 ppm	14.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.084 ppm	1.327 ppm	-0.342 ppm
Concentration per Run 1	-1.055 ppm	0.227 ppm	-0.032 ppm
Concentration per Run 2	0.467 ppm	2.117 ppm	-0.584 ppm
Concentration per Run 3	0.334 ppm	1.636 ppm	-0.411 ppm
Concentration RSD	997.8 %	74.0 %	82.5 %
Concentration SD	0.8 ppm	1.0 ppm	0.3 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	11.934 ppm	146.858 ppm	100.650 %
Concentration per Run 1	12.075 ppm	146.081 ppm	101.043 %
Concentration per Run 2	11.726 ppm	146.683 ppm	100.429 %
Concentration per Run 3	12.001 ppm	147.810 ppm	100.477 %
Concentration RSD	1.5 %	0.6 %	0.3 %
Concentration SD	0.2 ppm	0.9 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.142 %	83.797 %	92.746 %
Concentration per Run 1	92.244 %	83.847 %	92.678 %
Concentration per Run 2	92.021 %	83.733 %	92.680 %
Concentration per Run 3	92.160 %	83.813 %	92.881 %
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	872.454 ppm	25.591 ppm	0.167 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	883.216 ppm	25.663 ppm	0.138 ppm
Concentration per Run 2	797.946 ppm	25.649 ppm	0.206 ppm
Concentration per Run 3	936.199 ppm	25.460 ppm	0.157 ppm
Concentration RSD	8.0 %	0.4 %	20.9 %
Concentration SD	69.8 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	4.362 ppm
Concentration per Run 1	3.267 ppm
Concentration per Run 2	3.782 ppm
Concentration per Run 3	6.038 ppm
Concentration RSD	33.8 %
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	1,014 cps	7 cps	13 cps	120,428 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	48,751 cps	9,532 cps	578 cps	2,850 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	372 cps	577 cps	3,336 cps	17,573 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,199 cps	30 cps	23 cps	37 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	6 cps	4 cps	-7 cps	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	819 cps	2 cps	6,877 cps	9,596 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	3 cps	-5 cps	156 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	14,801 cps	5,954 cps	8,981 cps	3,012 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	148,764 cps	8 cps	172 cps	7 cps

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	Cu 324.754 {104} (Radial)
Intensity average	14 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	9,862.335 ppm	101.568 ppm	94.044 ppm
Concentration per Run 1	9,839.501 ppm	101.509 ppm	93.171 ppm
Concentration per Run 2	9,855.002 ppm	99.487 ppm	94.291 ppm
Concentration per Run 3	9,892.502 ppm	103.708 ppm	94.668 ppm
Concentration RSD	0.3 %	2.1 %	0.8 %
Concentration SD	27.3 ppm	2.1 ppm	0.8 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	104,100.558 ppm	111,685.303 ppm	8,284.877 ppm
Concentration per Run 1	102,869.749 ppm	110,572.107 ppm	8,203.739 ppm
Concentration per Run 2	104,313.250 ppm	111,662.782 ppm	8,281.650 ppm
Concentration per Run 3	105,118.675 ppm	112,821.020 ppm	8,369.240 ppm
Concentration RSD	1.1 %	1.0 %	1.0 %
Concentration SD	1,139.4 ppm	1,124.6 ppm	82.8 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	9,021.571 ppm	3,210.236 ppm	110.143 ppm
Concentration per Run 1	8,935.742 ppm	3,202.838 ppm	109.302 ppm
Concentration per Run 2	9,045.972 ppm	3,214.945 ppm	110.234 ppm
Concentration per Run 3	9,082.999 ppm	3,212.925 ppm	110.894 ppm
Concentration RSD	0.8 %	0.2 %	0.7 %
Concentration SD	76.6 ppm	6.5 ppm	0.8 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	4,804.371 ppm	1,727.909 ppm	406.385 ppm
Concentration per Run 1	4,737.058 ppm	1,716.182 ppm	404.493 ppm
Concentration per Run 2	4,820.141 ppm	1,727.228 ppm	405.468 ppm
Concentration per Run 3	4,855.915 ppm	1,740.318 ppm	409.194 ppm
Concentration RSD	1.3 %	0.7 %	0.6 %
Concentration SD	61.0 ppm	12.1 ppm	2.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	279.936 ppm	115.716 ppm	100.481 ppm
Concentration per Run 1	277.614 ppm	115.630 ppm	100.789 ppm
Concentration per Run 2	280.170 ppm	117.021 ppm	100.735 ppm
Concentration per Run 3	282.022 ppm	114.497 ppm	99.918 ppm
Concentration RSD	0.8 %	1.1 %	0.5 %
Concentration SD	2.2 ppm	1.3 ppm	0.5 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	103.176 ppm	97.161 ppm	86.130 ppm
Concentration per Run 1	103.194 ppm	97.324 ppm	86.630 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	103.752 ppm	97.178 ppm	86.523 ppm
Concentration per Run 3	102.582 ppm	96.982 ppm	85.238 ppm
Concentration RSD	0.6 %	0.2 %	0.9 %
Concentration SD	0.6 ppm	0.2 ppm	0.8 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	62.111 ppm	99.090 ppm	164.039 ppm
Concentration per Run 1	62.227 ppm	99.223 ppm	164.729 ppm
Concentration per Run 2	62.737 ppm	99.169 ppm	163.618 ppm
Concentration per Run 3	61.369 ppm	98.879 ppm	163.770 ppm
Concentration RSD	1.1 %	0.2 %	0.4 %
Concentration SD	0.7 ppm	0.2 ppm	0.6 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	94.728 ppm	32,138.641 ppm	1,124.298 ppm
Concentration per Run 1	94.752 ppm	32,259.075 ppm	1,125.581 ppm
Concentration per Run 2	94.464 ppm	32,048.683 ppm	1,121.333 ppm
Concentration per Run 3	94.969 ppm	32,108.166 ppm	1,125.980 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %
Concentration SD	0.3 ppm	108.5 ppm	2.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	54.127 ppm	101.520 ppm	97.556 ppm
Concentration per Run 1	54.968 ppm	102.315 ppm	97.345 ppm
Concentration per Run 2	53.322 ppm	102.200 ppm	97.371 ppm
Concentration per Run 3	54.091 ppm	100.043 ppm	97.952 ppm
Concentration RSD	1.5 %	1.3 %	0.4 %
Concentration SD	0.8 ppm	1.3 ppm	0.3 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	105.543 ppm	199.683 ppm	99.057 %
Concentration per Run 1	105.498 ppm	199.688 ppm	99.765 %
Concentration per Run 2	105.664 ppm	199.764 ppm	98.946 %
Concentration per Run 3	105.466 ppm	199.597 ppm	98.459 %
Concentration RSD	0.1 %	0.0 %	0.7 %
Concentration SD	0.1 ppm	0.1 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.363 %	83.182 %	91.281 %
Concentration per Run 1	91.206 %	83.035 %	90.920 %
Concentration per Run 2	92.172 %	83.531 %	91.697 %
Concentration per Run 3	90.710 %	82.981 %	91.227 %
Concentration RSD	0.8 %	0.4 %	0.4 %
Concentration SD	0.7 %	0.3 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,750.753 ppm	116.378 ppm	99.418 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,763.004 ppm	116.468 ppm	99.918 ppm
Concentration per Run 2	1,741.954 ppm	117.104 ppm	99.093 ppm
Concentration per Run 3	1,747.299 ppm	115.562 ppm	99.242 ppm
Concentration RSD	0.6 %	0.7 %	0.4 %
Concentration SD	10.9 ppm	0.8 ppm	0.4 ppm

	Cu 324.754 {104} (Radial)
Concentration average	99.360 ppm
Concentration per Run 1	101.409 ppm
Concentration per Run 2	98.987 ppm
Concentration per Run 3	97.683 ppm
Concentration RSD	1.9 %
Concentration SD	1.9 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	986 cps	75 cps	3,801 cps	134,203 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	54,271 cps	8,019 cps	489 cps	3,947 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,344 cps	633 cps	7,397 cps	32,501 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,611 cps	155 cps	618 cps	469 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	153 cps	164 cps	74 cps	79 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,295 cps	727 cps	13,941 cps	6,149 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	70 cps	74 cps	1,745 cps	1,357 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	20,553 cps	5,860 cps	8,905 cps	2,990 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,414 cps	188 cps	805 cps	1,055 cps

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	Cu 324.754 {104} (Radial)
Intensity average	190 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	11,735.440 ppm	115.615 ppm	111.087 ppm
Concentration per Run 1	11,723.341 ppm	116.598 ppm	110.330 ppm
Concentration per Run 2	11,715.423 ppm	113.164 ppm	111.823 ppm
Concentration per Run 3	11,767.555 ppm	117.083 ppm	111.108 ppm
Concentration RSD	0.2 %	1.8 %	0.7 %
Concentration SD	28.1 ppm	2.1 ppm	0.7 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	93,819.458 ppm	100,436.459 ppm	11,045.411 ppm
Concentration per Run 1	93,404.218 ppm	100,103.473 ppm	11,030.366 ppm
Concentration per Run 2	94,491.621 ppm	100,764.419 ppm	11,063.658 ppm
Concentration per Run 3	93,562.536 ppm	100,441.484 ppm	11,042.208 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %
Concentration SD	587.5 ppm	330.5 ppm	16.9 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	12,068.437 ppm	3,786.342 ppm	127.348 ppm
Concentration per Run 1	12,034.720 ppm	3,792.483 ppm	126.984 ppm
Concentration per Run 2	12,056.364 ppm	3,767.591 ppm	126.642 ppm
Concentration per Run 3	12,114.228 ppm	3,798.950 ppm	128.417 ppm
Concentration RSD	0.3 %	0.4 %	0.7 %
Concentration SD	41.1 ppm	16.6 ppm	0.9 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	5,796.545 ppm	1,913.780 ppm	334.698 ppm
Concentration per Run 1	5,757.726 ppm	1,913.901 ppm	334.257 ppm
Concentration per Run 2	5,841.331 ppm	1,906.221 ppm	333.430 ppm
Concentration per Run 3	5,790.578 ppm	1,921.216 ppm	336.408 ppm
Concentration RSD	0.7 %	0.4 %	0.5 %
Concentration SD	42.1 ppm	7.5 ppm	1.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	308.337 ppm	136.694 ppm	116.301 ppm
Concentration per Run 1	307.136 ppm	136.096 ppm	115.909 ppm
Concentration per Run 2	309.079 ppm	137.309 ppm	116.487 ppm
Concentration per Run 3	308.796 ppm	136.677 ppm	116.505 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %
Concentration SD	1.0 ppm	0.6 ppm	0.3 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	118.507 ppm	112.404 ppm	96.557 ppm
Concentration per Run 1	118.181 ppm	112.306 ppm	96.332 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	118.465 ppm	111.825 ppm	96.752 ppm
Concentration per Run 3	118.874 ppm	113.082 ppm	96.586 ppm
Concentration RSD	0.3 %	0.6 %	0.2 %
Concentration SD	0.3 ppm	0.6 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	68.848 ppm	111.800 ppm	196.086 ppm
Concentration per Run 1	69.058 ppm	111.642 ppm	196.446 ppm
Concentration per Run 2	68.724 ppm	112.507 ppm	196.060 ppm
Concentration per Run 3	68.764 ppm	111.250 ppm	195.750 ppm
Concentration RSD	0.3 %	0.6 %	0.2 %
Concentration SD	0.2 ppm	0.6 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	108.340 ppm	15,278.468 ppm	1,233.102 ppm
Concentration per Run 1	108.459 ppm	15,280.090 ppm	1,220.113 ppm
Concentration per Run 2	108.282 ppm	15,295.384 ppm	1,239.639 ppm
Concentration per Run 3	108.280 ppm	15,259.929 ppm	1,239.555 ppm
Concentration RSD	0.1 %	0.1 %	0.9 %
Concentration SD	0.1 ppm	17.8 ppm	11.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	60.022 ppm	116.318 ppm	111.676 ppm
Concentration per Run 1	60.229 ppm	116.804 ppm	111.105 ppm
Concentration per Run 2	60.346 ppm	117.106 ppm	111.686 ppm
Concentration per Run 3	59.492 ppm	115.045 ppm	112.236 ppm
Concentration RSD	0.8 %	1.0 %	0.5 %
Concentration SD	0.5 ppm	1.1 ppm	0.6 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	121.384 ppm	248.576 ppm	100.408 %
Concentration per Run 1	121.121 ppm	248.792 ppm	100.388 %
Concentration per Run 2	121.959 ppm	248.897 ppm	100.131 %
Concentration per Run 3	121.070 ppm	248.039 ppm	100.705 %
Concentration RSD	0.4 %	0.2 %	0.3 %
Concentration SD	0.5 ppm	0.5 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	93.732 %	85.166 %	92.976 %
Concentration per Run 1	93.365 %	85.011 %	92.907 %
Concentration per Run 2	94.034 %	85.346 %	92.598 %
Concentration per Run 3	93.798 %	85.140 %	93.421 %
Concentration RSD	0.4 %	0.2 %	0.4 %
Concentration SD	0.3 %	0.2 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,952.950 ppm	133.730 ppm	113.118 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,990.518 ppm	133.393 ppm	113.735 ppm
Concentration per Run 2	1,956.154 ppm	134.294 ppm	112.939 ppm
Concentration per Run 3	1,912.179 ppm	133.503 ppm	112.682 ppm
Concentration RSD	2.0 %	0.4 %	0.5 %
Concentration SD	39.3 ppm	0.5 ppm	0.5 ppm

	Cu 324.754 {104} (Radial)
Concentration average	114.065 ppm
Concentration per Run 1	113.222 ppm
Concentration per Run 2	113.775 ppm
Concentration per Run 3	115.200 ppm
Concentration RSD	0.9 %
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	995 cps	73 cps	3,806 cps	102,552 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	41,380 cps	9,064 cps	554 cps	3,947 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,277 cps	648 cps	6,945 cps	22,693 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,504 cps	155 cps	613 cps	461 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	151 cps	158 cps	70 cps	76 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,354 cps	714 cps	5,688 cps	5,747 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	67 cps	73 cps	1,702 cps	1,330 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	21,795 cps	5,940 cps	9,136 cps	3,061 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	149,132 cps	167 cps	794 cps	1,030 cps

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	Cu 324.754 {104} (Radial)
Intensity average	185 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,213.433 ppm	-0.206 ppm	0.047 ppm
Concentration per Run 1	2,254.485 ppm	-5.560 ppm	0.017 ppm
Concentration per Run 2	2,198.843 ppm	2.534 ppm	0.052 ppm
Concentration per Run 3	2,186.971 ppm	2.409 ppm	0.071 ppm
Concentration RSD	1.6 %	2,254.7 %	57.9 %
Concentration SD	36.0 ppm	4.6 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	192,375.495 ppm	206,244.027 ppm	1,834.669 ppm
Concentration per Run 1	193,531.428 ppm	207,043.063 ppm	1,840.640 ppm
Concentration per Run 2	191,523.251 ppm	205,780.979 ppm	1,835.769 ppm
Concentration per Run 3	192,071.806 ppm	205,908.039 ppm	1,827.600 ppm
Concentration RSD	0.5 %	0.3 %	0.4 %
Concentration SD	1,038.0 ppm	694.9 ppm	6.6 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,055.707 ppm	623.856 ppm	4.623 ppm
Concentration per Run 1	2,053.547 ppm	617.860 ppm	4.353 ppm
Concentration per Run 2	2,055.050 ppm	620.761 ppm	4.779 ppm
Concentration per Run 3	2,058.525 ppm	632.946 ppm	4.738 ppm
Concentration RSD	0.1 %	1.3 %	5.1 %
Concentration SD	2.6 ppm	8.0 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,210.243 ppm	524.526 ppm	861.466 ppm
Concentration per Run 1	1,229.675 ppm	526.358 ppm	861.664 ppm
Concentration per Run 2	1,199.349 ppm	523.837 ppm	860.452 ppm
Concentration per Run 3	1,201.706 ppm	523.382 ppm	862.281 ppm
Concentration RSD	1.4 %	0.3 %	0.1 %
Concentration SD	16.9 ppm	1.6 ppm	0.9 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	64.773 ppm	3.773 ppm	0.640 ppm
Concentration per Run 1	65.084 ppm	4.194 ppm	0.598 ppm
Concentration per Run 2	64.766 ppm	3.548 ppm	0.518 ppm
Concentration per Run 3	64.469 ppm	3.579 ppm	0.804 ppm
Concentration RSD	0.5 %	9.7 %	23.1 %
Concentration SD	0.3 ppm	0.4 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.329 ppm	0.271 ppm	0.840 ppm
Concentration per Run 1	1.542 ppm	0.428 ppm	0.696 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.172 ppm	0.580 ppm	1.081 ppm
Concentration per Run 3	1.273 ppm	-0.194 ppm	0.743 ppm
Concentration RSD	14.4 %	151.2 %	25.0 %
Concentration SD	0.2 ppm	0.4 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.341 ppm	-0.420 ppm	24.596 ppm
Concentration per Run 1	-0.839 ppm	0.087 ppm	24.657 ppm
Concentration per Run 2	-1.930 ppm	0.439 ppm	24.496 ppm
Concentration per Run 3	-1.255 ppm	-1.786 ppm	24.634 ppm
Concentration RSD	41.1 %	284.8 %	0.4 %
Concentration SD	0.6 ppm	1.2 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.221 ppm	141,217.466 ppm	1,563.994 ppm
Concentration per Run 1	0.289 ppm	141,244.198 ppm	1,572.022 ppm
Concentration per Run 2	0.159 ppm	141,479.919 ppm	1,569.287 ppm
Concentration per Run 3	0.214 ppm	140,928.280 ppm	1,550.673 ppm
Concentration RSD	29.4 %	0.2 %	0.7 %
Concentration SD	0.1 ppm	276.8 ppm	11.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.128 ppm	0.476 ppm	-0.563 ppm
Concentration per Run 1	-0.066 ppm	-0.088 ppm	-0.359 ppm
Concentration per Run 2	-0.153 ppm	1.749 ppm	-0.305 ppm
Concentration per Run 3	-0.166 ppm	-0.232 ppm	-1.025 ppm
Concentration RSD	42.4 %	232.0 %	71.2 %
Concentration SD	0.1 ppm	1.1 ppm	0.4 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	2.657 ppm	24.337 ppm	96.328 %
Concentration per Run 1	2.786 ppm	24.559 ppm	95.457 %
Concentration per Run 2	2.722 ppm	24.286 ppm	97.118 %
Concentration per Run 3	2.463 ppm	24.165 ppm	96.409 %
Concentration RSD	6.4 %	0.8 %	0.9 %
Concentration SD	0.2 ppm	0.2 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	90.684 %	82.135 %	90.573 %
Concentration per Run 1	90.435 %	81.870 %	90.352 %
Concentration per Run 2	90.179 %	81.812 %	91.107 %
Concentration per Run 3	91.438 %	82.722 %	90.260 %
Concentration RSD	0.7 %	0.6 %	0.5 %
Concentration SD	0.7 %	0.5 %	0.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	443.371 ppm	6.303 ppm	0.035 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	476.497 ppm	6.214 ppm	0.048 ppm
Concentration per Run 2	402.313 ppm	6.286 ppm	0.053 ppm
Concentration per Run 3	451.304 ppm	6.409 ppm	0.005 ppm
Concentration RSD	8.5 %	1.6 %	75.3 %
Concentration SD	37.7 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.547 ppm
Concentration per Run 1	0.266 ppm
Concentration per Run 2	1.177 ppm
Concentration per Run 3	0.199 ppm
Concentration RSD	99.9 %
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	192 cps	1 cps	2 cps	210,456 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	85,051 cps	1,509 cps	95 cps	651 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	95 cps	135 cps	1,906 cps	58,473 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	317 cps	5 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	-1 cps	3 cps	-6 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	299 cps	4 cps	53,059 cps	7,403 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	3 cps	-7 cps	36 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	2,173 cps	5,699 cps	8,839 cps	2,952 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	145,279 cps	-80 cps	38 cps	5 cps

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

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	4,611.432 ppm	1.545 ppm	0.015 ppm
Concentration per Run 1	4,649.262 ppm	0.122 ppm	-0.002 ppm
Concentration per Run 2	4,582.113 ppm	2.115 ppm	0.015 ppm
Concentration per Run 3	4,602.922 ppm	2.399 ppm	0.031 ppm
Concentration RSD	0.7 %	80.3 %	114.9 %
Concentration SD	34.4 ppm	1.2 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	129,236.767 ppm	138,805.177 ppm	4,182.258 ppm
Concentration per Run 1	129,687.052 ppm	139,240.039 ppm	4,203.985 ppm
Concentration per Run 2	129,769.655 ppm	139,174.958 ppm	4,179.562 ppm
Concentration per Run 3	128,253.593 ppm	138,000.534 ppm	4,163.226 ppm
Concentration RSD	0.7 %	0.5 %	0.5 %
Concentration SD	852.5 ppm	697.6 ppm	20.5 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4,560.984 ppm	1,141.482 ppm	6.363 ppm
Concentration per Run 1	4,619.529 ppm	1,144.649 ppm	6.166 ppm
Concentration per Run 2	4,563.972 ppm	1,150.256 ppm	6.540 ppm
Concentration per Run 3	4,499.451 ppm	1,129.539 ppm	6.381 ppm
Concentration RSD	1.3 %	0.9 %	3.0 %
Concentration SD	60.1 ppm	10.7 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,089.178 ppm	423.441 ppm	619.540 ppm
Concentration per Run 1	2,082.420 ppm	422.099 ppm	620.748 ppm
Concentration per Run 2	2,101.617 ppm	426.380 ppm	617.836 ppm
Concentration per Run 3	2,083.498 ppm	421.844 ppm	620.037 ppm
Concentration RSD	0.5 %	0.6 %	0.2 %
Concentration SD	10.8 ppm	2.5 ppm	1.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	137.406 ppm	8.408 ppm	1.495 ppm
Concentration per Run 1	138.263 ppm	6.653 ppm	1.513 ppm
Concentration per Run 2	136.603 ppm	8.479 ppm	1.476 ppm
Concentration per Run 3	137.352 ppm	10.092 ppm	1.494 ppm
Concentration RSD	0.6 %	20.5 %	1.2 %
Concentration SD	0.8 ppm	1.7 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	4.205 ppm	1.598 ppm	1.310 ppm
Concentration per Run 1	4.389 ppm	1.297 ppm	1.249 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	4.189 ppm	1.739 ppm	1.077 ppm
Concentration per Run 3	4.039 ppm	1.756 ppm	1.606 ppm
Concentration RSD	4.2 %	16.3 %	20.6 %
Concentration SD	0.2 ppm	0.3 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.394 ppm	1.620 ppm	41.825 ppm
Concentration per Run 1	-0.735 ppm	1.593 ppm	41.782 ppm
Concentration per Run 2	-2.886 ppm	1.114 ppm	41.844 ppm
Concentration per Run 3	-0.560 ppm	2.153 ppm	41.850 ppm
Concentration RSD	93.0 %	32.1 %	0.1 %
Concentration SD	1.3 ppm	0.5 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.055 ppm	85,346.759 ppm	1,037.750 ppm
Concentration per Run 1	0.078 ppm	85,070.019 ppm	1,050.911 ppm
Concentration per Run 2	0.088 ppm	85,635.355 ppm	1,034.110 ppm
Concentration per Run 3	-0.001 ppm	85,334.903 ppm	1,028.229 ppm
Concentration RSD	89.4 %	0.3 %	1.1 %
Concentration SD	0.0 ppm	282.9 ppm	11.8 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.125 ppm	1.169 ppm	-0.250 ppm
Concentration per Run 1	0.237 ppm	0.772 ppm	-0.775 ppm
Concentration per Run 2	-0.393 ppm	1.962 ppm	-0.123 ppm
Concentration per Run 3	0.532 ppm	0.772 ppm	0.148 ppm
Concentration RSD	376.9 %	58.8 %	189.9 %
Concentration SD	0.5 ppm	0.7 ppm	0.5 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	4.846 ppm	47.574 ppm	97.379 %
Concentration per Run 1	4.966 ppm	47.873 ppm	96.500 %
Concentration per Run 2	4.855 ppm	47.763 ppm	97.024 %
Concentration per Run 3	4.718 ppm	47.087 ppm	98.612 %
Concentration RSD	2.6 %	0.9 %	1.1 %
Concentration SD	0.1 ppm	0.4 ppm	1.1 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.550 %	84.277 %	92.746 %
Concentration per Run 1	92.778 %	84.466 %	91.715 %
Concentration per Run 2	92.438 %	84.229 %	92.922 %
Concentration per Run 3	92.433 %	84.136 %	93.599 %
Concentration RSD	0.2 %	0.2 %	1.0 %
Concentration SD	0.2 %	0.2 %	1.0 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	402.518 ppm	11.828 ppm	0.057 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	458.922 ppm	11.783 ppm	0.048 ppm
Concentration per Run 2	383.672 ppm	11.953 ppm	0.067 ppm
Concentration per Run 3	364.960 ppm	11.747 ppm	0.057 ppm
Concentration RSD	12.4 %	0.9 %	17.1 %
Concentration SD	49.7 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.847 ppm
Concentration per Run 1	1.329 ppm
Concentration per Run 2	1.024 ppm
Concentration per Run 3	3.189 ppm
Concentration RSD	63.4 %
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	448 cps	3 cps	1 cps	160,798 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	65,099 cps	3,908 cps	239 cps	1,355 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	163 cps	266 cps	1,750 cps	47,825 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	11 cps	9 cps	20 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	-6 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	583 cps	3 cps	36,819 cps	5,664 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	3 cps	-3 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	4,888 cps	5,761 cps	9,021 cps	3,029 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	148,763 cps	-79 cps	82 cps	6 cps

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

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CCV 14J27642

Sample Type QC Analysis Date 11/5/2014 12:52:58 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.531 ppm	1.983 ppm	0.199 ppm	49.028 ppm
Concentration per Run 1	9.482 ppm	1.974 ppm	0.199 ppm	49.240 ppm
Concentration per Run 2	9.524 ppm	2.008 ppm	0.200 ppm	49.108 ppm
Concentration per Run 3	9.586 ppm	1.967 ppm	0.198 ppm	48.736 ppm
Concentration RSD	0.6 %	1.1 %	0.3 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.3 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	51.531 ppm	9.733 ppm	10.802 ppm	47.969 ppm
Concentration per Run 1	51.756 ppm	9.755 ppm	10.929 ppm	48.016 ppm
Concentration per Run 2	51.636 ppm	9.739 ppm	10.799 ppm	48.021 ppm
Concentration per Run 3	51.200 ppm	9.704 ppm	10.679 ppm	47.870 ppm
Concentration RSD	0.6 %	0.3 %	1.2 %	0.2 %
Concentration SD	0.3 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.446 ppm	9.525 ppm	47.791 ppm	0.988 ppm
Concentration per Run 1	1.439 ppm	9.555 ppm	47.795 ppm	0.987 ppm
Concentration per Run 2	1.449 ppm	9.562 ppm	47.864 ppm	0.988 ppm
Concentration per Run 3	1.451 ppm	9.458 ppm	47.712 ppm	0.988 ppm
Concentration RSD	0.4 %	0.6 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.007 ppm	0.997 ppm	1.014 ppm	2.031 ppm
Concentration per Run 1	1.009 ppm	0.998 ppm	1.012 ppm	2.031 ppm
Concentration per Run 2	1.007 ppm	0.997 ppm	1.015 ppm	2.032 ppm
Concentration per Run 3	1.005 ppm	0.995 ppm	1.014 ppm	2.031 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.0 %
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	0.493 ppm	1.993 ppm	1.950 ppm	2.006 ppm
Concentration per Run 1	0.492 ppm	1.993 ppm	1.952 ppm	1.999 ppm
Concentration per Run 2	0.495 ppm	1.994 ppm	1.947 ppm	2.015 ppm
Concentration per Run 3	0.492 ppm	1.991 ppm	1.952 ppm	2.004 ppm
Concentration RSD	0.4 %	0.1 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.501 ppm	0.500 ppm	4.836 ppm	1.998 ppm
Concentration per Run 1	0.501 ppm	0.499 ppm	4.827 ppm	1.998 ppm
Concentration per Run 2	0.501 ppm	0.500 ppm	4.850 ppm	1.991 ppm
Concentration per Run 3	0.501 ppm	0.499 ppm	4.830 ppm	2.004 ppm
Concentration RSD	0.0 %	0.1 %	0.3 %	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	2.020 ppm	2.079 ppm	1.015 ppm	1.000 ppm
Concentration per Run 1	2.018 ppm	2.076 ppm	1.014 ppm	1.002 ppm
Concentration per Run 2	2.020 ppm	2.081 ppm	1.012 ppm	0.995 ppm
Concentration per Run 3	2.021 ppm	2.080 ppm	1.018 ppm	1.004 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.006 ppm	100.538 %	95.869 %	87.450 %
Concentration per Run 1	1.007 ppm	99.988 %	95.534 %	87.098 %
Concentration per Run 2	1.002 ppm	100.613 %	95.895 %	87.529 %
Concentration per Run 3	1.009 ppm	101.014 %	96.178 %	87.724 %
Concentration RSD	0.4 %	0.5 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.5 %	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	94.577 %	48.813 ppm	2.955 ppm	0.536 ppm
Concentration per Run 1	94.187 %	48.754 ppm	2.958 ppm	0.535 ppm
Concentration per Run 2	94.557 %	48.671 ppm	2.958 ppm	0.537 ppm
Concentration per Run 3	94.987 %	49.015 ppm	2.949 ppm	0.535 ppm
Concentration RSD	0.4 %	0.4 %	0.2 %	0.2 %
Concentration SD	0.4 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.974 ppm
Concentration per Run 1	1.970 ppm
Concentration per Run 2	1.982 ppm
Concentration per Run 3	1.969 ppm
Concentration RSD	0.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	443 cps	665 cps	3,711 cps	29,195 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11,561 cps	4,347 cps	271 cps	27,213 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	20,388 cps	579 cps	94,380 cps	36,438 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,672 cps	615 cps	2,984 cps	4,401 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	371 cps	1,805 cps	1,175 cps	788 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,345 cps	1,826 cps	1,003 cps	5,150 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,207 cps	700 cps	8,544 cps	6,038 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	48,762 cps	5,948 cps	9,345 cps	3,143 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	151,701 cps	4,304 cps	9,750 cps	2,704 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,692 cps

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Sample Type QC Analysis Date 11/5/2014 12:57:06 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.010 ppm	-0.002 ppm	0.000 ppm	0.006 ppm
Concentration per Run 1	0.011 ppm	-0.002 ppm	0.000 ppm	0.003 ppm
Concentration per Run 2	-0.019 ppm	-0.004 ppm	0.000 ppm	0.009 ppm
Concentration per Run 3	-0.023 ppm	0.001 ppm	0.000 ppm	0.004 ppm
Concentration RSD	183.4 %	187.5 %	284.2 %	56.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.019 ppm	0.007 ppm	-0.037 ppm	0.029 ppm
Concentration per Run 1	0.012 ppm	0.007 ppm	0.001 ppm	0.016 ppm
Concentration per Run 2	0.022 ppm	0.009 ppm	-0.054 ppm	0.033 ppm
Concentration per Run 3	0.022 ppm	0.004 ppm	-0.057 ppm	0.038 ppm
Concentration RSD	28.8 %	36.5 %	89.5 %	39.2 %
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	0.000 ppm	0.023 ppm	0.007 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.048 ppm	0.008 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.009 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.030 ppm	0.009 ppm	0.000 ppm
Concentration RSD	165.3 %	127.0 %	63.9 %	84.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.002 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	0.000 ppm	0.003 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	147.7 %	75.5 %	61.6 %	236.7 %
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	0.001 ppm	0.002 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.001 ppm	0.003 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	152.1 %	86.1 %	123.6 %	80.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	0.004 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.006 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration RSD	51.5 %	321.0 %	42.2 %	349.9 %
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	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	221.1 %	201.5 %	257.2 %	109.8 %
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	101.540 %	102.097 %	102.824 %
Concentration per Run 1	0.000 ppm	100.621 %	102.130 %	102.861 %
Concentration per Run 2	0.000 ppm	102.068 %	102.226 %	102.974 %
Concentration per Run 3	0.000 ppm	101.931 %	101.936 %	102.637 %
Concentration RSD	75.3 %	0.8 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.8 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.708 %	0.165 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	101.782 %	0.085 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	102.130 %	0.156 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	101.212 %	0.253 ppm	0.001 ppm	0.000 ppm
Concentration RSD	0.5 %	51.3 %	71.1 %	18.2 %
Concentration SD	0.5 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	0.002 ppm
Concentration per Run 2	-0.002 ppm
Concentration per Run 3	0.002 ppm
Concentration RSD	288.8 %
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	5 cps	1 cps	-1 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	15 cps	5 cps	0 cps	17 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-32 cps	1 cps	13 cps	-3 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	-2 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-2 cps	2 cps	-5 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	2 cps	3 cps	3 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	3 cps	3 cps	-1 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	12 cps	6,007 cps	9,952 cps	3,696 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	163,139 cps	-148 cps	3 cps	5 cps

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

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Sample Type UNKNOWN Analysis Date 11/5/2014 1:01:38 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,219.836 ppm	0.294 ppm	-0.052 ppm
Concentration per Run 1	2,219.816 ppm	-2.323 ppm	-0.061 ppm
Concentration per Run 2	2,209.665 ppm	0.464 ppm	-0.030 ppm
Concentration per Run 3	2,230.028 ppm	2.741 ppm	-0.065 ppm
Concentration RSD	0.5 %	862.4 %	36.4 %
Concentration SD	10.2 ppm	2.5 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	185,369.602 ppm	199,673.048 ppm	1,799.197 ppm
Concentration per Run 1	184,452.288 ppm	199,151.244 ppm	1,786.295 ppm
Concentration per Run 2	185,364.755 ppm	199,687.693 ppm	1,799.488 ppm
Concentration per Run 3	186,291.764 ppm	200,180.206 ppm	1,811.808 ppm
Concentration RSD	0.5 %	0.3 %	0.7 %
Concentration SD	919.7 ppm	514.6 ppm	12.8 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1,969.871 ppm	613.097 ppm	5.210 ppm
Concentration per Run 1	1,948.199 ppm	609.666 ppm	4.744 ppm
Concentration per Run 2	1,966.439 ppm	611.896 ppm	5.887 ppm
Concentration per Run 3	1,994.975 ppm	617.728 ppm	5.000 ppm
Concentration RSD	1.2 %	0.7 %	11.5 %
Concentration SD	23.6 ppm	4.2 ppm	0.6 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,190.788 ppm	496.074 ppm	885.823 ppm
Concentration per Run 1	1,188.590 ppm	496.388 ppm	885.486 ppm
Concentration per Run 2	1,189.921 ppm	497.314 ppm	887.458 ppm
Concentration per Run 3	1,193.853 ppm	494.521 ppm	884.524 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %
Concentration SD	2.7 ppm	1.4 ppm	1.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	64.632 ppm	6.065 ppm	0.756 ppm
Concentration per Run 1	64.125 ppm	5.162 ppm	0.486 ppm
Concentration per Run 2	65.697 ppm	5.246 ppm	1.010 ppm
Concentration per Run 3	64.075 ppm	7.786 ppm	0.773 ppm
Concentration RSD	1.4 %	24.6 %	34.7 %
Concentration SD	0.9 ppm	1.5 ppm	0.3 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.646 ppm	0.735 ppm	1.473 ppm
Concentration per Run 1	1.314 ppm	0.573 ppm	1.546 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.784 ppm	1.583 ppm	1.177 ppm
Concentration per Run 3	1.839 ppm	0.048 ppm	1.697 ppm
Concentration RSD	17.5 %	106.2 %	18.2 %
Concentration SD	0.3 ppm	0.8 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.993 ppm	-0.215 ppm	20.676 ppm
Concentration per Run 1	-2.721 ppm	0.062 ppm	20.145 ppm
Concentration per Run 2	-0.996 ppm	-1.403 ppm	21.485 ppm
Concentration per Run 3	-2.263 ppm	0.695 ppm	20.397 ppm
Concentration RSD	44.8 %	500.0 %	3.4 %
Concentration SD	0.9 ppm	1.1 ppm	0.7 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.161 ppm	140,645.105 ppm	1,096.207 ppm
Concentration per Run 1	0.088 ppm	136,571.067 ppm	1,102.717 ppm
Concentration per Run 2	0.223 ppm	146,720.279 ppm	1,091.439 ppm
Concentration per Run 3	0.173 ppm	138,643.968 ppm	1,094.465 ppm
Concentration RSD	42.2 %	3.8 %	0.5 %
Concentration SD	0.1 ppm	5,362.4 ppm	5.8 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.582 ppm	1.125 ppm	-0.381 ppm
Concentration per Run 1	-0.264 ppm	1.614 ppm	-0.361 ppm
Concentration per Run 2	-1.152 ppm	1.115 ppm	-0.383 ppm
Concentration per Run 3	-0.330 ppm	0.645 ppm	-0.399 ppm
Concentration RSD	84.9 %	43.1 %	4.9 %
Concentration SD	0.5 ppm	0.5 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	2.181 ppm	31.113 ppm	96.866 %
Concentration per Run 1	1.992 ppm	31.200 ppm	97.438 %
Concentration per Run 2	2.293 ppm	31.105 ppm	96.257 %
Concentration per Run 3	2.257 ppm	31.033 ppm	96.903 %
Concentration RSD	7.5 %	0.3 %	0.6 %
Concentration SD	0.2 ppm	0.1 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	90.025 %	81.387 %	90.291 %
Concentration per Run 1	92.195 %	83.507 %	90.056 %
Concentration per Run 2	86.399 %	78.106 %	90.209 %
Concentration per Run 3	91.479 %	82.549 %	90.608 %
Concentration RSD	3.5 %	3.5 %	0.3 %
Concentration SD	3.2 %	2.9 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	452.539 ppm	6.109 ppm	0.116 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	458.656 ppm	5.937 ppm	0.151 ppm
Concentration per Run 2	499.477 ppm	6.372 ppm	0.117 ppm
Concentration per Run 3	399.484 ppm	6.019 ppm	0.080 ppm
Concentration RSD	11.1 %	3.8 %	30.5 %
Concentration SD	50.3 ppm	0.2 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.807 ppm
Concentration per Run 1	-2.120 ppm
Concentration per Run 2	0.580 ppm
Concentration per Run 3	3.961 ppm
Concentration RSD	377.6 %
Concentration SD	3.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	197 cps	2 cps	-2 cps	208,178 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	84,528 cps	1,519 cps	94 cps	657 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	114 cps	136 cps	1,850 cps	61,722 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	324 cps	8 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	0 cps	4 cps	-6 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	255 cps	3 cps	53,506 cps	5,287 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	3 cps	-5 cps	31 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	2,826 cps	5,731 cps	8,775 cps	2,925 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	144,826 cps	-77 cps	37 cps	6 cps

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

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,766.956 ppm	1.710 ppm	-0.019 ppm
Concentration per Run 1	2,878.072 ppm	-0.385 ppm	0.060 ppm
Concentration per Run 2	2,716.043 ppm	1.839 ppm	-0.019 ppm
Concentration per Run 3	2,706.754 ppm	3.676 ppm	-0.097 ppm
Concentration RSD	3.5 %	118.9 %	424.3 %
Concentration SD	96.3 ppm	2.0 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	198,092.783 ppm	213,436.972 ppm	2,320.446 ppm
Concentration per Run 1	206,286.278 ppm	222,271.178 ppm	2,411.188 ppm
Concentration per Run 2	194,433.018 ppm	209,033.523 ppm	2,276.328 ppm
Concentration per Run 3	193,559.052 ppm	209,006.214 ppm	2,273.823 ppm
Concentration RSD	3.6 %	3.6 %	3.4 %
Concentration SD	7,109.2 ppm	7,650.7 ppm	78.6 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,533.474 ppm	711.837 ppm	5.545 ppm
Concentration per Run 1	2,681.900 ppm	744.394 ppm	6.025 ppm
Concentration per Run 2	2,468.359 ppm	705.775 ppm	5.153 ppm
Concentration per Run 3	2,450.162 ppm	685.342 ppm	5.455 ppm
Concentration RSD	5.1 %	4.2 %	8.0 %
Concentration SD	128.9 ppm	30.0 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,450.007 ppm	758.762 ppm	925.142 ppm
Concentration per Run 1	1,490.737 ppm	789.223 ppm	962.262 ppm
Concentration per Run 2	1,433.240 ppm	744.840 ppm	909.721 ppm
Concentration per Run 3	1,426.044 ppm	742.222 ppm	903.443 ppm
Concentration RSD	2.4 %	3.5 %	3.5 %
Concentration SD	35.5 ppm	26.4 ppm	32.3 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	82.476 ppm	4.925 ppm	0.806 ppm
Concentration per Run 1	85.375 ppm	4.986 ppm	0.765 ppm
Concentration per Run 2	81.350 ppm	2.280 ppm	0.919 ppm
Concentration per Run 3	80.704 ppm	7.508 ppm	0.733 ppm
Concentration RSD	3.1 %	53.1 %	12.4 %
Concentration SD	2.5 ppm	2.6 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	2.935 ppm	0.441 ppm	1.217 ppm
Concentration per Run 1	2.874 ppm	0.933 ppm	0.912 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	3.004 ppm	0.240 ppm	1.389 ppm
Concentration per Run 3	2.928 ppm	0.150 ppm	1.351 ppm
Concentration RSD	2.2 %	97.1 %	21.8 %
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	-1.163 ppm	-0.143 ppm	26.787 ppm
Concentration per Run 1	-0.311 ppm	0.093 ppm	26.625 ppm
Concentration per Run 2	-1.681 ppm	0.005 ppm	26.896 ppm
Concentration per Run 3	-1.498 ppm	-0.526 ppm	26.840 ppm
Concentration RSD	64.0 %	234.3 %	0.5 %
Concentration SD	0.7 ppm	0.3 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.191 ppm	139,710.974 ppm	1,116.380 ppm
Concentration per Run 1	0.099 ppm	139,290.122 ppm	1,163.197 ppm
Concentration per Run 2	0.337 ppm	139,889.155 ppm	1,044.400 ppm
Concentration per Run 3	0.137 ppm	139,953.645 ppm	1,141.542 ppm
Concentration RSD	66.8 %	0.3 %	5.7 %
Concentration SD	0.1 ppm	365.9 ppm	63.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.101 ppm	0.174 ppm	-0.492 ppm
Concentration per Run 1	-1.000 ppm	-1.467 ppm	-0.390 ppm
Concentration per Run 2	0.197 ppm	1.267 ppm	-0.602 ppm
Concentration per Run 3	0.500 ppm	0.722 ppm	-0.483 ppm
Concentration RSD	786.3 %	831.7 %	21.7 %
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	2.978 ppm	31.085 ppm	94.563 %
Concentration per Run 1	3.176 ppm	32.233 ppm	90.946 %
Concentration per Run 2	2.925 ppm	29.355 ppm	95.695 %
Concentration per Run 3	2.832 ppm	31.666 ppm	97.047 %
Concentration RSD	6.0 %	4.9 %	3.4 %
Concentration SD	0.2 ppm	1.5 ppm	3.2 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.437 %	82.973 %	95.556 %
Concentration per Run 1	92.973 %	83.349 %	92.331 %
Concentration per Run 2	92.256 %	82.896 %	100.033 %
Concentration per Run 3	92.081 %	82.675 %	94.304 %
Concentration RSD	0.5 %	0.4 %	4.2 %
Concentration SD	0.5 %	0.3 %	4.0 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	626.179 ppm	7.322 ppm	0.104 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	598.897 ppm	7.327 ppm	0.129 ppm
Concentration per Run 2	639.438 ppm	7.187 ppm	0.063 ppm
Concentration per Run 3	640.201 ppm	7.453 ppm	0.119 ppm
Concentration RSD	3.8 %	1.8 %	34.3 %
Concentration SD	23.6 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	2.194 ppm
Concentration per Run 1	1.774 ppm
Concentration per Run 2	1.792 ppm
Concentration per Run 3	3.016 ppm
Concentration RSD	32.4 %
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	239 cps	3 cps	-1 cps	217,001 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	88,136 cps	1,910 cps	117 cps	744 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	120 cps	162 cps	2,760 cps	62,880 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	404 cps	6 cps	4 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	0 cps	3 cps	-6 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	339 cps	4 cps	54,623 cps	5,688 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	42 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	2,984 cps	5,594 cps	9,010 cps	2,982 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	153,271 cps	-46 cps	46 cps	6 cps

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

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	8,276.150 ppm	4.321 ppm	0.178 ppm
Concentration per Run 1	8,305.373 ppm	6.891 ppm	0.100 ppm
Concentration per Run 2	8,231.217 ppm	5.591 ppm	0.287 ppm
Concentration per Run 3	8,291.861 ppm	0.482 ppm	0.145 ppm
Concentration RSD	0.5 %	78.4 %	55.1 %
Concentration SD	39.5 ppm	3.4 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	130,277.892 ppm	139,200.219 ppm	7,536.619 ppm
Concentration per Run 1	130,628.199 ppm	139,199.973 ppm	7,542.015 ppm
Concentration per Run 2	129,927.698 ppm	139,275.450 ppm	7,519.119 ppm
Concentration per Run 3	130,277.778 ppm	139,125.234 ppm	7,548.723 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %
Concentration SD	350.3 ppm	75.1 ppm	15.5 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	8,301.418 ppm	1,929.278 ppm	10.714 ppm
Concentration per Run 1	8,301.920 ppm	1,929.621 ppm	10.613 ppm
Concentration per Run 2	8,255.105 ppm	1,921.905 ppm	10.691 ppm
Concentration per Run 3	8,347.228 ppm	1,936.309 ppm	10.838 ppm
Concentration RSD	0.6 %	0.4 %	1.1 %
Concentration SD	46.1 ppm	7.2 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3,547.766 ppm	492.857 ppm	303.903 ppm
Concentration per Run 1	3,558.816 ppm	489.803 ppm	302.221 ppm
Concentration per Run 2	3,533.001 ppm	496.476 ppm	304.642 ppm
Concentration per Run 3	3,551.481 ppm	492.292 ppm	304.848 ppm
Concentration RSD	0.4 %	0.7 %	0.5 %
Concentration SD	13.3 ppm	3.4 ppm	1.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	212.272 ppm	17.930 ppm	3.362 ppm
Concentration per Run 1	211.581 ppm	17.774 ppm	3.463 ppm
Concentration per Run 2	213.059 ppm	16.925 ppm	3.366 ppm
Concentration per Run 3	212.176 ppm	19.089 ppm	3.257 ppm
Concentration RSD	0.4 %	6.1 %	3.1 %
Concentration SD	0.7 ppm	1.1 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	7.206 ppm	4.547 ppm	1.797 ppm
Concentration per Run 1	7.331 ppm	4.921 ppm	1.614 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	7.228 ppm	4.478 ppm	1.851 ppm
Concentration per Run 3	7.059 ppm	4.244 ppm	1.926 ppm
Concentration RSD	1.9 %	7.6 %	9.1 %
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	-1.298 ppm	1.534 ppm	101.814 ppm
Concentration per Run 1	-0.415 ppm	0.822 ppm	101.286 ppm
Concentration per Run 2	-1.747 ppm	2.224 ppm	102.067 ppm
Concentration per Run 3	-1.732 ppm	1.557 ppm	102.088 ppm
Concentration RSD	58.9 %	45.7 %	0.4 %
Concentration SD	0.8 ppm	0.7 ppm	0.5 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.051 ppm	44,674.104 ppm	854.904 ppm
Concentration per Run 1	0.149 ppm	44,557.805 ppm	854.616 ppm
Concentration per Run 2	0.098 ppm	44,794.317 ppm	859.964 ppm
Concentration per Run 3	-0.095 ppm	44,670.189 ppm	850.132 ppm
Concentration RSD	254.5 %	0.3 %	0.6 %
Concentration SD	0.1 ppm	118.3 ppm	4.9 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.225 ppm	1.007 ppm	-0.366 ppm
Concentration per Run 1	0.503 ppm	0.595 ppm	-0.231 ppm
Concentration per Run 2	0.192 ppm	0.350 ppm	-0.432 ppm
Concentration per Run 3	-1.371 ppm	2.077 ppm	-0.436 ppm
Concentration RSD	445.7 %	92.8 %	32.0 %
Concentration SD	1.0 ppm	0.9 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	11.554 ppm	141.657 ppm	97.257 %
Concentration per Run 1	11.283 ppm	142.099 ppm	97.045 %
Concentration per Run 2	12.227 ppm	141.561 ppm	97.789 %
Concentration per Run 3	11.151 ppm	141.310 ppm	96.937 %
Concentration RSD	5.1 %	0.3 %	0.5 %
Concentration SD	0.6 ppm	0.4 ppm	0.5 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	93.198 %	84.392 %	92.007 %
Concentration per Run 1	93.752 %	84.694 %	91.930 %
Concentration per Run 2	93.174 %	84.400 %	92.070 %
Concentration per Run 3	92.667 %	84.082 %	92.022 %
Concentration RSD	0.6 %	0.4 %	0.1 %
Concentration SD	0.5 %	0.3 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	415.700 ppm	22.196 ppm	0.074 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	410.750 ppm	22.227 ppm	0.013 ppm
Concentration per Run 2	441.646 ppm	22.252 ppm	0.109 ppm
Concentration per Run 3	394.704 ppm	22.109 ppm	0.101 ppm
Concentration RSD	5.7 %	0.3 %	71.6 %
Concentration SD	23.9 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	3.113 ppm
Concentration per Run 1	2.898 ppm
Concentration per Run 2	3.614 ppm
Concentration per Run 3	2.827 ppm
Concentration RSD	14.0 %
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	784 cps	4 cps	7 cps	158,900 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	63,998 cps	6,902 cps	426 cps	2,244 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	285 cps	442 cps	1,996 cps	22,996 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,156 cps	23 cps	20 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	6 cps	5 cps	-6 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	1,401 cps	3 cps	19,049 cps	4,548 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	3 cps	-5 cps	150 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	14,163 cps	5,754 cps	9,084 cps	3,033 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	147,578 cps	-78 cps	151 cps	6 cps

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	Cu 324.754 {104} (Radial)
Intensity average	11 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	2,392.603 ppm	0.834 ppm	-0.017 ppm
Concentration per Run 1	2,376.167 ppm	-0.618 ppm	0.007 ppm
Concentration per Run 2	2,373.518 ppm	1.388 ppm	-0.036 ppm
Concentration per Run 3	2,428.124 ppm	1.733 ppm	-0.020 ppm
Concentration RSD	1.3 %	152.1 %	131.6 %
Concentration SD	30.8 ppm	1.3 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	197,138.126 ppm	213,393.898 ppm	2,021.811 ppm
Concentration per Run 1	196,784.187 ppm	212,730.037 ppm	2,021.763 ppm
Concentration per Run 2	195,319.044 ppm	211,308.461 ppm	2,012.667 ppm
Concentration per Run 3	199,311.146 ppm	216,143.195 ppm	2,031.004 ppm
Concentration RSD	1.0 %	1.2 %	0.5 %
Concentration SD	2,019.4 ppm	2,484.8 ppm	9.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	2,212.165 ppm	632.085 ppm	4.936 ppm
Concentration per Run 1	2,216.043 ppm	630.462 ppm	5.077 ppm
Concentration per Run 2	2,194.301 ppm	636.883 ppm	4.876 ppm
Concentration per Run 3	2,226.150 ppm	628.908 ppm	4.855 ppm
Concentration RSD	0.7 %	0.7 %	2.5 %
Concentration SD	16.3 ppm	4.2 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,252.033 ppm	468.392 ppm	1,077.571 ppm
Concentration per Run 1	1,250.564 ppm	465.813 ppm	1,070.409 ppm
Concentration per Run 2	1,250.664 ppm	466.953 ppm	1,078.383 ppm
Concentration per Run 3	1,254.872 ppm	472.411 ppm	1,083.921 ppm
Concentration RSD	0.2 %	0.8 %	0.6 %
Concentration SD	2.5 ppm	3.5 ppm	6.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	60.492 ppm	3.647 ppm	0.642 ppm
Concentration per Run 1	60.013 ppm	3.252 ppm	0.608 ppm
Concentration per Run 2	60.058 ppm	3.699 ppm	0.578 ppm
Concentration per Run 3	61.404 ppm	3.988 ppm	0.741 ppm
Concentration RSD	1.3 %	10.2 %	13.6 %
Concentration SD	0.8 ppm	0.4 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.508 ppm	1.201 ppm	1.638 ppm
Concentration per Run 1	1.465 ppm	1.249 ppm	1.333 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.387 ppm	1.008 ppm	1.537 ppm
Concentration per Run 3	1.672 ppm	1.345 ppm	2.044 ppm
Concentration RSD	9.8 %	14.5 %	22.3 %
Concentration SD	0.1 ppm	0.2 ppm	0.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.363 ppm	0.051 ppm	25.481 ppm
Concentration per Run 1	-1.730 ppm	-0.535 ppm	25.410 ppm
Concentration per Run 2	-1.154 ppm	0.451 ppm	25.519 ppm
Concentration per Run 3	-1.205 ppm	0.237 ppm	25.513 ppm
Concentration RSD	23.4 %	1,012.3 %	0.2 %
Concentration SD	0.3 ppm	0.5 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.092 ppm	138,245.541 ppm	1,570.912 ppm
Concentration per Run 1	0.122 ppm	138,173.523 ppm	1,568.717 ppm
Concentration per Run 2	0.094 ppm	138,374.872 ppm	1,562.718 ppm
Concentration per Run 3	0.060 ppm	138,188.229 ppm	1,581.301 ppm
Concentration RSD	33.7 %	0.1 %	0.6 %
Concentration SD	0.0 ppm	112.2 ppm	9.5 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.827 ppm	1.386 ppm	-0.074 ppm
Concentration per Run 1	-1.402 ppm	1.408 ppm	-0.214 ppm
Concentration per Run 2	-0.493 ppm	1.752 ppm	0.216 ppm
Concentration per Run 3	-0.585 ppm	1.000 ppm	-0.225 ppm
Concentration RSD	60.5 %	27.1 %	338.2 %
Concentration SD	0.5 ppm	0.4 ppm	0.3 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	3.058 ppm	43.886 ppm	97.690 %
Concentration per Run 1	3.064 ppm	43.795 ppm	98.029 %
Concentration per Run 2	2.786 ppm	43.908 ppm	97.769 %
Concentration per Run 3	3.325 ppm	43.955 ppm	97.274 %
Concentration RSD	8.8 %	0.2 %	0.4 %
Concentration SD	0.3 ppm	0.1 ppm	0.4 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.219 %	82.381 %	90.619 %
Concentration per Run 1	91.291 %	82.475 %	90.835 %
Concentration per Run 2	90.956 %	82.046 %	90.385 %
Concentration per Run 3	91.408 %	82.621 %	90.637 %
Concentration RSD	0.3 %	0.4 %	0.2 %
Concentration SD	0.2 %	0.3 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	412.325 ppm	6.784 ppm	0.096 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	415.204 ppm	6.869 ppm	0.073 ppm
Concentration per Run 2	451.347 ppm	6.761 ppm	0.081 ppm
Concentration per Run 3	370.425 ppm	6.722 ppm	0.133 ppm
Concentration RSD	9.8 %	1.1 %	34.0 %
Concentration SD	40.5 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.629 ppm
Concentration per Run 1	1.478 ppm
Concentration per Run 2	0.306 ppm
Concentration per Run 3	3.102 ppm
Concentration RSD	86.2 %
Concentration SD	1.4 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	210 cps	2 cps	-1 cps	218,717 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	89,243 cps	1,686 cps	104 cps	669 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	105 cps	142 cps	1,726 cps	74,176 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	300 cps	5 cps	3 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	-6 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	312 cps	3 cps	52,249 cps	7,439 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	0 cps	40 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	3,917 cps	5,779 cps	8,891 cps	2,961 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	145,352 cps	-86 cps	41 cps	6 cps

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

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	1,170.143 ppm	1.664 ppm	0.030 ppm
Concentration per Run 1	1,147.448 ppm	2.234 ppm	0.059 ppm
Concentration per Run 2	1,183.342 ppm	-0.091 ppm	0.035 ppm
Concentration per Run 3	1,179.638 ppm	2.848 ppm	-0.004 ppm
Concentration RSD	1.7 %	93.2 %	105.2 %
Concentration SD	19.7 ppm	1.6 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	188,974.653 ppm	203,576.385 ppm	1,291.402 ppm
Concentration per Run 1	189,251.820 ppm	203,806.200 ppm	1,296.413 ppm
Concentration per Run 2	190,254.160 ppm	205,012.277 ppm	1,298.080 ppm
Concentration per Run 3	187,417.978 ppm	201,910.680 ppm	1,279.714 ppm
Concentration RSD	0.8 %	0.8 %	0.8 %
Concentration SD	1,438.3 ppm	1,563.5 ppm	10.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1,419.585 ppm	311.887 ppm	3.029 ppm
Concentration per Run 1	1,479.081 ppm	319.296 ppm	2.842 ppm
Concentration per Run 2	1,395.346 ppm	306.641 ppm	3.318 ppm
Concentration per Run 3	1,384.328 ppm	309.723 ppm	2.925 ppm
Concentration RSD	3.7 %	2.1 %	8.4 %
Concentration SD	51.8 ppm	6.6 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	609.967 ppm	564.901 ppm	810.445 ppm
Concentration per Run 1	601.583 ppm	568.313 ppm	813.407 ppm
Concentration per Run 2	631.558 ppm	562.306 ppm	811.065 ppm
Concentration per Run 3	596.761 ppm	564.085 ppm	806.863 ppm
Concentration RSD	3.1 %	0.5 %	0.4 %
Concentration SD	18.9 ppm	3.1 ppm	3.3 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	39.284 ppm	2.727 ppm	0.248 ppm
Concentration per Run 1	39.652 ppm	2.637 ppm	0.258 ppm
Concentration per Run 2	39.117 ppm	1.241 ppm	0.345 ppm
Concentration per Run 3	39.084 ppm	4.304 ppm	0.140 ppm
Concentration RSD	0.8 %	56.2 %	41.4 %
Concentration SD	0.3 ppm	1.5 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.716 ppm	0.292 ppm	1.732 ppm
Concentration per Run 1	0.743 ppm	1.007 ppm	2.018 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.685 ppm	-0.970 ppm	1.602 ppm
Concentration per Run 3	0.721 ppm	0.838 ppm	1.575 ppm
Concentration RSD	4.1 %	375.7 %	14.3 %
Concentration SD	0.0 ppm	1.1 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.246 ppm	-0.290 ppm	16.632 ppm
Concentration per Run 1	-1.448 ppm	0.407 ppm	16.575 ppm
Concentration per Run 2	-1.317 ppm	-1.576 ppm	16.644 ppm
Concentration per Run 3	-0.974 ppm	0.298 ppm	16.678 ppm
Concentration RSD	19.7 %	384.3 %	0.3 %
Concentration SD	0.2 ppm	1.1 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.088 ppm	143,334.970 ppm	1,454.538 ppm
Concentration per Run 1	-0.064 ppm	143,127.874 ppm	1,453.136 ppm
Concentration per Run 2	0.138 ppm	143,645.536 ppm	1,456.989 ppm
Concentration per Run 3	0.191 ppm	143,231.499 ppm	1,453.490 ppm
Concentration RSD	152.0 %	0.2 %	0.1 %
Concentration SD	0.1 ppm	273.9 ppm	2.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.546 ppm	1.382 ppm	-0.637 ppm
Concentration per Run 1	-0.830 ppm	2.784 ppm	-0.667 ppm
Concentration per Run 2	-0.290 ppm	1.481 ppm	-0.883 ppm
Concentration per Run 3	-0.518 ppm	-0.120 ppm	-0.360 ppm
Concentration RSD	49.7 %	105.3 %	41.3 %
Concentration SD	0.3 ppm	1.5 ppm	0.3 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	1.646 ppm	11.846 ppm	96.354 %
Concentration per Run 1	1.905 ppm	11.802 ppm	96.177 %
Concentration per Run 2	1.565 ppm	11.877 ppm	96.088 %
Concentration per Run 3	1.467 ppm	11.858 ppm	96.797 %
Concentration RSD	14.0 %	0.3 %	0.4 %
Concentration SD	0.2 ppm	0.0 ppm	0.4 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.062 %	82.877 %	91.345 %
Concentration per Run 1	91.577 %	83.148 %	91.463 %
Concentration per Run 2	90.404 %	82.538 %	91.696 %
Concentration per Run 3	91.204 %	82.943 %	90.877 %
Concentration RSD	0.7 %	0.4 %	0.5 %
Concentration SD	0.6 %	0.3 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	497.325 ppm	3.888 ppm	0.077 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	461.211 ppm	3.928 ppm	0.063 ppm
Concentration per Run 2	492.463 ppm	3.890 ppm	0.096 ppm
Concentration per Run 3	538.303 ppm	3.845 ppm	0.072 ppm
Concentration RSD	7.8 %	1.1 %	22.2 %
Concentration SD	38.8 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.478 ppm
Concentration per Run 1	0.123 ppm
Concentration per Run 2	0.192 ppm
Concentration per Run 3	1.118 ppm
Concentration RSD	116.3 %
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	102 cps	2 cps	1 cps	202,487 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	82,224 cps	1,041 cps	65 cps	319 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	52 cps	67 cps	2,010 cps	53,878 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	188 cps	4 cps	1 cps	4 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	4 cps	-6 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	199 cps	3 cps	52,953 cps	6,801 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	3 cps	-8 cps	24 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	1,047 cps	5,700 cps	8,876 cps	2,979 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,517 cps	-73 cps	23 cps	6 cps

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

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	6,613.705 ppm	6.586 ppm	0.205 ppm
Concentration per Run 1	6,324.902 ppm	7.620 ppm	0.187 ppm
Concentration per Run 2	7,073.239 ppm	7.036 ppm	0.275 ppm
Concentration per Run 3	6,442.974 ppm	5.102 ppm	0.152 ppm
Concentration RSD	6.1 %	20.0 %	31.0 %
Concentration SD	402.3 ppm	1.3 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	165,759.433 ppm	178,403.812 ppm	7,872.324 ppm
Concentration per Run 1	159,218.941 ppm	171,422.518 ppm	7,540.864 ppm
Concentration per Run 2	177,373.588 ppm	190,780.602 ppm	8,421.563 ppm
Concentration per Run 3	160,685.772 ppm	173,008.316 ppm	7,654.544 ppm
Concentration RSD	6.1 %	6.0 %	6.1 %
Concentration SD	10,084.9 ppm	10,747.9 ppm	479.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	8,585.968 ppm	1,553.665 ppm	8.796 ppm
Concentration per Run 1	8,251.760 ppm	1,495.689 ppm	9.146 ppm
Concentration per Run 2	9,181.348 ppm	1,663.346 ppm	8.819 ppm
Concentration per Run 3	8,324.796 ppm	1,501.959 ppm	8.424 ppm
Concentration RSD	6.0 %	6.1 %	4.1 %
Concentration SD	516.9 ppm	95.0 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3,567.366 ppm	1,434.439 ppm	531.996 ppm
Concentration per Run 1	3,405.848 ppm	1,380.491 ppm	512.261 ppm
Concentration per Run 2	3,860.552 ppm	1,530.132 ppm	566.373 ppm
Concentration per Run 3	3,435.697 ppm	1,392.695 ppm	517.353 ppm
Concentration RSD	7.1 %	5.8 %	5.6 %
Concentration SD	254.3 ppm	83.1 ppm	29.9 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	162.069 ppm	16.120 ppm	3.006 ppm
Concentration per Run 1	156.017 ppm	15.602 ppm	3.037 ppm
Concentration per Run 2	173.244 ppm	18.029 ppm	3.033 ppm
Concentration per Run 3	156.947 ppm	14.728 ppm	2.949 ppm
Concentration RSD	6.0 %	10.6 %	1.7 %
Concentration SD	9.7 ppm	1.7 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	5.883 ppm	4.112 ppm	1.181 ppm
Concentration per Run 1	5.657 ppm	4.679 ppm	0.917 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	5.888 ppm	3.715 ppm	1.232 ppm
Concentration per Run 3	6.104 ppm	3.942 ppm	1.394 ppm
Concentration RSD	3.8 %	12.3 %	20.5 %
Concentration SD	0.2 ppm	0.5 ppm	0.2 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.348 ppm	1.750 ppm	65.977 ppm
Concentration per Run 1	-1.124 ppm	1.638 ppm	66.092 ppm
Concentration per Run 2	-1.918 ppm	2.344 ppm	65.834 ppm
Concentration per Run 3	-1.001 ppm	1.269 ppm	66.006 ppm
Concentration RSD	36.9 %	31.2 %	0.2 %
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	0.221 ppm	46,896.182 ppm	1,467.917 ppm
Concentration per Run 1	0.298 ppm	46,906.190 ppm	1,475.280 ppm
Concentration per Run 2	0.147 ppm	46,772.964 ppm	1,461.442 ppm
Concentration per Run 3	0.217 ppm	47,009.391 ppm	1,467.029 ppm
Concentration RSD	34.0 %	0.3 %	0.5 %
Concentration SD	0.1 ppm	118.5 ppm	7.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.540 ppm	2.316 ppm	-0.222 ppm
Concentration per Run 1	-0.869 ppm	2.147 ppm	-0.232 ppm
Concentration per Run 2	0.189 ppm	2.969 ppm	-0.234 ppm
Concentration per Run 3	-0.940 ppm	1.832 ppm	-0.200 ppm
Concentration RSD	117.1 %	25.3 %	8.6 %
Concentration SD	0.6 ppm	0.6 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	9.067 ppm	153.828 ppm	94.536 %
Concentration per Run 1	8.989 ppm	154.736 ppm	97.699 %
Concentration per Run 2	8.938 ppm	153.864 ppm	88.172 %
Concentration per Run 3	9.273 ppm	152.883 ppm	97.737 %
Concentration RSD	2.0 %	0.6 %	5.8 %
Concentration SD	0.2 ppm	0.9 ppm	5.5 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.278 %	82.095 %	90.185 %
Concentration per Run 1	89.410 %	82.241 %	90.076 %
Concentration per Run 2	89.670 %	82.292 %	90.179 %
Concentration per Run 3	88.754 %	81.751 %	90.299 %
Concentration RSD	0.5 %	0.4 %	0.1 %
Concentration SD	0.5 %	0.3 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,367.911 ppm	19.661 ppm	0.209 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,285.423 ppm	19.702 ppm	0.191 ppm
Concentration per Run 2	1,414.661 ppm	19.623 ppm	0.160 ppm
Concentration per Run 3	1,403.650 ppm	19.658 ppm	0.276 ppm
Concentration RSD	5.2 %	0.2 %	28.9 %
Concentration SD	71.6 ppm	0.0 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	3.459 ppm
Concentration per Run 1	4.037 ppm
Concentration per Run 2	2.469 ppm
Concentration per Run 3	3.872 ppm
Concentration RSD	24.9 %
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	563 cps	5 cps	7 cps	181,255 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	73,537 cps	6,464 cps	395 cps	1,620 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	205 cps	399 cps	5,209 cps	36,098 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	791 cps	19 cps	16 cps	24 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	3 cps	-6 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	805 cps	4 cps	17,710 cps	7,063 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	4 cps	-2 cps	108 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	13,938 cps	5,593 cps	8,702 cps	2,951 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	144,655 cps	79 cps	119 cps	7 cps

Comprehensive sample report

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	Cu 324.754 {104} (Radial)
Intensity average	11 cps

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CCV 14J27642

Sample Type QC Analysis Date 11/5/2014 1:28:01 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	9.661 ppm	1.978 ppm	0.198 ppm	48.510 ppm
Concentration per Run 1	9.729 ppm	1.971 ppm	0.198 ppm	48.419 ppm
Concentration per Run 2	9.613 ppm	1.986 ppm	0.199 ppm	48.741 ppm
Concentration per Run 3	9.642 ppm	1.976 ppm	0.197 ppm	48.370 ppm
Concentration RSD	0.6 %	0.4 %	0.4 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	51.263 ppm	9.686 ppm	10.656 ppm	48.150 ppm
Concentration per Run 1	51.314 ppm	9.673 ppm	10.788 ppm	48.113 ppm
Concentration per Run 2	51.358 ppm	9.719 ppm	10.633 ppm	48.214 ppm
Concentration per Run 3	51.117 ppm	9.667 ppm	10.547 ppm	48.125 ppm
Concentration RSD	0.3 %	0.3 %	1.1 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.463 ppm	9.356 ppm	48.001 ppm	0.998 ppm
Concentration per Run 1	1.460 ppm	9.332 ppm	47.877 ppm	0.997 ppm
Concentration per Run 2	1.464 ppm	9.386 ppm	48.079 ppm	0.999 ppm
Concentration per Run 3	1.465 ppm	9.349 ppm	48.049 ppm	0.999 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.1 %
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	1.008 ppm	0.996 ppm	1.005 ppm	2.009 ppm
Concentration per Run 1	1.004 ppm	0.990 ppm	1.005 ppm	2.008 ppm
Concentration per Run 2	1.013 ppm	1.003 ppm	1.004 ppm	2.008 ppm
Concentration per Run 3	1.008 ppm	0.994 ppm	1.007 ppm	2.011 ppm
Concentration RSD	0.4 %	0.7 %	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	0.488 ppm	1.967 ppm	1.932 ppm	2.024 ppm
Concentration per Run 1	0.490 ppm	1.966 ppm	1.930 ppm	2.020 ppm
Concentration per Run 2	0.488 ppm	1.963 ppm	1.932 ppm	2.022 ppm
Concentration per Run 3	0.486 ppm	1.971 ppm	1.935 ppm	2.030 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.502 ppm	0.503 ppm	4.806 ppm	1.977 ppm
Concentration per Run 1	0.502 ppm	0.503 ppm	4.804 ppm	1.982 ppm
Concentration per Run 2	0.501 ppm	0.502 ppm	4.810 ppm	1.978 ppm
Concentration per Run 3	0.503 ppm	0.504 ppm	4.805 ppm	1.970 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	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	2.047 ppm	2.091 ppm	1.009 ppm	0.987 ppm
Concentration per Run 1	2.042 ppm	2.088 ppm	1.015 ppm	0.983 ppm
Concentration per Run 2	2.049 ppm	2.085 ppm	1.008 ppm	0.990 ppm
Concentration per Run 3	2.050 ppm	2.099 ppm	1.005 ppm	0.988 ppm
Concentration RSD	0.2 %	0.3 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.991 ppm	101.060 %	93.987 %	86.396 %
Concentration per Run 1	0.988 ppm	101.349 %	93.846 %	86.240 %
Concentration per Run 2	0.992 ppm	100.496 %	94.201 %	86.598 %
Concentration per Run 3	0.994 ppm	101.335 %	93.913 %	86.350 %
Concentration RSD	0.3 %	0.5 %	0.2 %	0.2 %
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	93.835 %	49.344 ppm	2.927 ppm	0.535 ppm
Concentration per Run 1	94.200 %	49.273 ppm	2.932 ppm	0.535 ppm
Concentration per Run 2	93.287 %	49.478 ppm	2.925 ppm	0.535 ppm
Concentration per Run 3	94.017 %	49.281 ppm	2.926 ppm	0.536 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	0.2 %
Concentration SD	0.5 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.988 ppm
Concentration per Run 1	1.985 ppm
Concentration per Run 2	1.990 ppm
Concentration per Run 3	1.987 ppm
Concentration RSD	0.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	451 cps	666 cps	3,713 cps	29,037 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11,560 cps	4,349 cps	268 cps	27,458 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	20,732 cps	572 cps	95,288 cps	37,015 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,690 cps	617 cps	2,923 cps	4,300 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	363 cps	1,760 cps	1,150 cps	779 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,284 cps	1,802 cps	977 cps	5,057 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,199 cps	691 cps	8,432 cps	5,912 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	47,655 cps	5,979 cps	9,161 cps	3,105 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	150,510 cps	4,375 cps	9,470 cps	2,649 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,713 cps

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Sample Type QC Analysis Date 11/5/2014 1:32:06 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.005 ppm	-0.002 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	0.017 ppm	-0.001 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.026 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	-0.004 ppm	-0.005 ppm	0.000 ppm	0.000 ppm
Concentration RSD	457.2 %	129.4 %	1,273.5 %	63.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.001 ppm	0.000 ppm	0.017 ppm	0.028 ppm
Concentration per Run 1	0.009 ppm	-0.001 ppm	0.007 ppm	0.049 ppm
Concentration per Run 2	-0.008 ppm	0.001 ppm	0.000 ppm	0.008 ppm
Concentration per Run 3	0.002 ppm	0.001 ppm	0.042 ppm	0.026 ppm
Concentration RSD	765.3 %	438.5 %	134.6 %	73.5 %
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	-0.001 ppm	0.007 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.024 ppm	0.011 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.014 ppm	0.006 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.007 ppm	0.005 ppm	0.000 ppm
Concentration RSD	589.4 %	1,775.7 %	42.8 %	161.7 %
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	0.000 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1,668.7 %	81.2 %	54.4 %	90.8 %
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	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	-0.002 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.001 ppm	0.001 ppm
Concentration RSD	154.4 %	55.2 %	1,858.1 %	361.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	0.010 ppm	0.002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.010 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.007 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.011 ppm	0.001 ppm
Concentration RSD	225.1 %	55.4 %	21.5 %	52.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 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	0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	32.8 %	199.3 %	317.1 %	109.6 %
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	103.168 %	98.913 %	100.750 %
Concentration per Run 1	0.000 ppm	103.088 %	97.961 %	100.391 %
Concentration per Run 2	0.000 ppm	103.589 %	99.094 %	100.845 %
Concentration per Run 3	0.000 ppm	102.828 %	99.683 %	101.014 %
Concentration RSD	24.3 %	0.4 %	0.9 %	0.3 %
Concentration SD	0.0 ppm	0.4 %	0.9 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.375 %	0.175 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	101.469 %	0.156 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	101.331 %	0.207 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	101.324 %	0.161 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	16.0 %	159.8 %	47.0 %
Concentration SD	0.1 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	-0.001 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	-0.001 ppm
Concentration RSD	287.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	1 cps	0 cps	46 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11 cps	2 cps	2 cps	16 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-28 cps	0 cps	15 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	0 cps	-2 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-2 cps	2 cps	-5 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1 cps	3 cps	4 cps	29 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	3 cps	3 cps	2 cps	8 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	12 cps	6,103 cps	9,641 cps	3,621 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	162,604 cps	-149 cps	1 cps	6 cps

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

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Sample Type QC Analysis Date 11/5/2014 1:36:37 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	0.076 ppm	0.204 ppm	0.002 ppm	0.506 ppm
Concentration per Run 1	0.061 ppm	0.193 ppm	0.002 ppm	0.502 ppm
Concentration per Run 2	0.073 ppm	0.212 ppm	0.002 ppm	0.509 ppm
Concentration per Run 3	0.093 ppm	0.205 ppm	0.002 ppm	0.508 ppm
Concentration RSD	20.8 %	4.6 %	2.9 %	0.8 %
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	0.527 ppm	0.106 ppm	0.064 ppm	0.524 ppm
Concentration per Run 1	0.542 ppm	0.105 ppm	-0.012 ppm	0.534 ppm
Concentration per Run 2	0.511 ppm	0.109 ppm	0.094 ppm	0.543 ppm
Concentration per Run 3	0.528 ppm	0.105 ppm	0.112 ppm	0.495 ppm
Concentration RSD	2.9 %	2.1 %	103.8 %	5.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.015 ppm	0.091 ppm	0.514 ppm	0.010 ppm
Concentration per Run 1	0.016 ppm	0.060 ppm	0.511 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.103 ppm	0.516 ppm	0.010 ppm
Concentration per Run 3	0.015 ppm	0.110 ppm	0.516 ppm	0.010 ppm
Concentration RSD	2.5 %	29.4 %	0.6 %	1.3 %
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	0.009 ppm	0.020 ppm
Concentration per Run 1	0.009 ppm	0.009 ppm	0.009 ppm	0.020 ppm
Concentration per Run 2	0.010 ppm	0.009 ppm	0.009 ppm	0.020 ppm
Concentration per Run 3	0.010 ppm	0.007 ppm	0.009 ppm	0.019 ppm
Concentration RSD	6.9 %	12.5 %	1.1 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.004 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 1	0.004 ppm	0.018 ppm	0.020 ppm	0.021 ppm
Concentration per Run 2	0.004 ppm	0.019 ppm	0.019 ppm	0.021 ppm
Concentration per Run 3	0.005 ppm	0.019 ppm	0.019 ppm	0.021 ppm
Concentration RSD	13.9 %	1.6 %	1.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	4.688 ppm	0.185 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.670 ppm	0.184 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.694 ppm	0.186 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.701 ppm	0.185 ppm
Concentration RSD	1.5 %	1.5 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.019 ppm	0.019 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.020 ppm	0.018 ppm	0.010 ppm	0.011 ppm
Concentration per Run 2	0.021 ppm	0.019 ppm	0.009 ppm	0.010 ppm
Concentration per Run 3	0.017 ppm	0.021 ppm	0.009 ppm	0.011 ppm
Concentration RSD	10.5 %	9.1 %	7.7 %	5.6 %
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	0.010 ppm	102.470 %	99.529 %	100.561 %
Concentration per Run 1	0.011 ppm	102.589 %	99.539 %	100.312 %
Concentration per Run 2	0.010 ppm	102.803 %	100.022 %	101.049 %
Concentration per Run 3	0.010 ppm	102.016 %	99.026 %	100.321 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.4 %	0.5 %	0.4 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.987 %	0.775 ppm	0.031 ppm	0.005 ppm
Concentration per Run 1	100.921 %	0.697 ppm	0.031 ppm	0.005 ppm
Concentration per Run 2	100.781 %	0.879 ppm	0.031 ppm	0.005 ppm
Concentration per Run 3	101.259 %	0.748 ppm	0.031 ppm	0.005 ppm
Concentration RSD	0.2 %	12.1 %	0.4 %	2.0 %
Concentration SD	0.2 %	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	0.022 ppm
Concentration per Run 3	0.022 ppm
Concentration RSD	1.2 %
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	9 cps	71 cps	40 cps	352 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	131 cps	51 cps	3 cps	303 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	194 cps	5 cps	1,035 cps	381 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	26 cps	6 cps	31 cps	50 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	21 cps	8 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	38 cps	22 cps	1,009 cps	531 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	14 cps	9 cps	88 cps	74 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	544 cps	6,062 cps	9,701 cps	3,614 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	161,982 cps	-92 cps	107 cps	33 cps

	Cu 324.754 {104} (Radial)
Intensity average	25 cps

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ICSA 14J27643

Sample Type QC Analysis Date 11/5/2014 3:50:19 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	483.140 ppm	-0.002 ppm	0.000 ppm	441.973 ppm
Concentration per Run 1	486.665 ppm	-0.002 ppm	0.000 ppm	442.968 ppm
Concentration per Run 2	479.863 ppm	0.002 ppm	0.000 ppm	442.708 ppm
Concentration per Run 3	482.893 ppm	-0.007 ppm	0.000 ppm	440.244 ppm
Concentration RSD	0.7 %	219.7 %	213.6 %	0.3 %
Concentration SD	3.4 ppm	0.0 ppm	0.0 ppm	1.5 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	484.666 ppm	171.706 ppm	193.196 ppm	0.035 ppm
Concentration per Run 1	486.144 ppm	172.238 ppm	194.334 ppm	0.007 ppm
Concentration per Run 2	484.602 ppm	171.633 ppm	193.316 ppm	0.039 ppm
Concentration per Run 3	483.251 ppm	171.246 ppm	191.938 ppm	0.059 ppm
Concentration RSD	0.3 %	0.3 %	0.6 %	75.5 %
Concentration SD	1.4 ppm	0.5 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	0.003 ppm	491.562 ppm	0.031 ppm	0.007 ppm
Concentration per Run 1	0.002 ppm	493.016 ppm	0.028 ppm	0.007 ppm
Concentration per Run 2	0.004 ppm	492.894 ppm	0.026 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	488.775 ppm	0.039 ppm	0.007 ppm
Concentration RSD	26.6 %	0.5 %	22.4 %	3.3 %
Concentration SD	0.0 ppm	2.4 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	-0.005 ppm	0.006 ppm	0.000 ppm	-0.016 ppm
Concentration per Run 1	-0.005 ppm	0.008 ppm	0.000 ppm	-0.016 ppm
Concentration per Run 2	-0.006 ppm	0.001 ppm	0.001 ppm	-0.016 ppm
Concentration per Run 3	-0.005 ppm	0.008 ppm	0.000 ppm	-0.015 ppm
Concentration RSD	11.1 %	73.1 %	702.7 %	2.8 %
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	-0.028 ppm	0.002 ppm	-0.011 ppm	-0.003 ppm
Concentration per Run 1	-0.030 ppm	0.000 ppm	-0.011 ppm	-0.005 ppm
Concentration per Run 2	-0.027 ppm	0.003 ppm	-0.011 ppm	-0.001 ppm
Concentration per Run 3	-0.027 ppm	0.003 ppm	-0.011 ppm	-0.005 ppm
Concentration RSD	7.0 %	110.5 %	1.5 %	61.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	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	-0.002 ppm	0.045 ppm	-0.002 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	0.044 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	-0.002 ppm	0.050 ppm	-0.004 ppm
Concentration per Run 3	0.002 ppm	-0.002 ppm	0.042 ppm	0.001 ppm
Concentration RSD	6.7 %	24.6 %	8.4 %	164.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.006 ppm	0.026 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 1	-0.005 ppm	0.026 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.006 ppm	0.026 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.006 ppm	0.028 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	5.0 %	4.0 %	47.7 %	51.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	-0.005 ppm	96.415 %	86.863 %	70.674 %
Concentration per Run 1	-0.006 ppm	95.637 %	86.913 %	70.669 %
Concentration per Run 2	-0.005 ppm	96.706 %	86.522 %	70.613 %
Concentration per Run 3	-0.005 ppm	96.903 %	87.155 %	70.739 %
Concentration RSD	1.2 %	0.7 %	0.4 %	0.1 %
Concentration SD	0.0 ppm	0.7 %	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	85.563 %	-0.033 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 1	85.508 %	-0.142 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 2	85.616 %	0.036 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 3	85.564 %	0.007 ppm	0.004 ppm	-0.001 ppm
Concentration RSD	0.1 %	287.1 %	1.6 %	4.4 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	-0.002 ppm
Concentration per Run 2	0.002 ppm
Concentration per Run 3	0.004 ppm
Concentration RSD	216.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,272 cps	1 cps	1 cps	252,054 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	104,190 cps	73,513 cps	4,623 cps	19 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	22 cps	28,689 cps	59 cps	258 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-13 cps	4 cps	0 cps	-27 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-18 cps	2 cps	-9 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	14 cps	-3 cps	10 cps	17 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-1 cps	10 cps	-4 cps	10 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-235 cps	5,704 cps	8,467 cps	2,540 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	137,242 cps	-158 cps	12 cps	0 cps

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

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ICSAB 14J27644

Sample Type QC Analysis Date 11/5/2014 3:54:45 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	479.772 ppm	0.957 ppm	0.477 ppm	439.099 ppm
Concentration per Run 1	482.748 ppm	0.958 ppm	0.480 ppm	440.622 ppm
Concentration per Run 2	479.414 ppm	0.958 ppm	0.477 ppm	439.528 ppm
Concentration per Run 3	477.153 ppm	0.955 ppm	0.474 ppm	437.146 ppm
Concentration RSD	0.6 %	0.2 %	0.7 %	0.4 %
Concentration SD	2.8 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	481.031 ppm	170.719 ppm	192.308 ppm	0.022 ppm
Concentration per Run 1	483.008 ppm	171.543 ppm	193.245 ppm	-0.001 ppm
Concentration per Run 2	480.991 ppm	170.454 ppm	191.998 ppm	0.024 ppm
Concentration per Run 3	479.093 ppm	170.160 ppm	191.680 ppm	0.043 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	101.1 %
Concentration SD	2.0 ppm	0.7 ppm	0.8 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.004 ppm	488.952 ppm	0.032 ppm	0.007 ppm
Concentration per Run 1	0.003 ppm	491.585 ppm	0.032 ppm	0.007 ppm
Concentration per Run 2	0.004 ppm	488.650 ppm	0.032 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	486.621 ppm	0.032 ppm	0.007 ppm
Concentration RSD	18.3 %	0.5 %	0.6 %	1.1 %
Concentration SD	0.0 ppm	2.5 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.473 ppm	0.467 ppm	0.494 ppm	0.963 ppm
Concentration per Run 1	0.478 ppm	0.472 ppm	0.487 ppm	0.950 ppm
Concentration per Run 2	0.472 ppm	0.462 ppm	0.488 ppm	0.950 ppm
Concentration per Run 3	0.469 ppm	0.466 ppm	0.506 ppm	0.988 ppm
Concentration RSD	1.0 %	1.0 %	2.2 %	2.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.928 ppm	0.484 ppm	0.448 ppm	0.498 ppm
Concentration per Run 1	0.917 ppm	0.479 ppm	0.445 ppm	0.490 ppm
Concentration per Run 2	0.920 ppm	0.478 ppm	0.441 ppm	0.497 ppm
Concentration per Run 3	0.948 ppm	0.496 ppm	0.458 ppm	0.506 ppm
Concentration RSD	1.8 %	2.0 %	1.9 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.463 ppm	0.455 ppm	0.044 ppm	0.925 ppm
Concentration per Run 1	0.456 ppm	0.447 ppm	0.043 ppm	0.921 ppm
Concentration per Run 2	0.459 ppm	0.450 ppm	0.043 ppm	0.927 ppm
Concentration per Run 3	0.475 ppm	0.467 ppm	0.045 ppm	0.927 ppm
Concentration RSD	2.2 %	2.3 %	3.0 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.501 ppm	0.532 ppm	1.101 ppm	0.453 ppm
Concentration per Run 1	0.491 ppm	0.524 ppm	1.099 ppm	0.451 ppm
Concentration per Run 2	0.496 ppm	0.531 ppm	1.104 ppm	0.456 ppm
Concentration per Run 3	0.516 ppm	0.540 ppm	1.101 ppm	0.453 ppm
Concentration RSD	2.7 %	1.6 %	0.3 %	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	0.442 ppm	96.640 %	86.496 %	70.124 %
Concentration per Run 1	0.438 ppm	96.246 %	87.508 %	70.853 %
Concentration per Run 2	0.444 ppm	96.487 %	87.264 %	70.837 %
Concentration per Run 3	0.444 ppm	97.188 %	84.716 %	68.682 %
Concentration RSD	0.7 %	0.5 %	1.8 %	1.8 %
Concentration SD	0.0 ppm	0.5 %	1.5 %	1.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	86.170 %	0.044 ppm	0.881 ppm	1.029 ppm
Concentration per Run 1	86.096 %	0.047 ppm	0.867 ppm	1.013 ppm
Concentration per Run 2	86.036 %	-0.016 ppm	0.872 ppm	1.020 ppm
Concentration per Run 3	86.379 %	0.102 ppm	0.903 ppm	1.054 ppm
Concentration RSD	0.2 %	133.1 %	2.2 %	2.2 %
Concentration SD	0.2 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.496 ppm
Concentration per Run 1	0.498 ppm
Concentration per Run 2	0.497 ppm
Concentration per Run 3	0.494 ppm
Concentration RSD	0.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,173 cps	309 cps	8,551 cps	250,998 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	103,650 cps	73,261 cps	4,612 cps	12 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	27 cps	28,603 cps	61 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	1,207 cps	277 cps	1,165 cps	1,672 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	561 cps	352 cps	214 cps	174 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,787 cps	1,499 cps	10 cps	2,184 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	163 cps	8,449 cps	2,496 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	19,518 cps	5,717 cps	8,431 cps	2,520 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	138,217 cps	-151 cps	2,622 cps	4,680 cps

	Cu 324.754 {104} (Radial)
Intensity average	413 cps

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	
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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
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76	88	L730289-91 WG751509
77	89	L730303-01 WG751509
78	90	L730303-02 WG751509
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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
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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 **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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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.: 1 **Autosampler Location: 11**
Sample ID: CALBLK **Date Collected: 11/4/2014 7:34:14 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	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

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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.: 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%						

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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.
```

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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:
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.	Calib. Units	Std.Dev.	Sample Conc.	Sample 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.
```

==========

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	Calib. Conc.	Units	Std.Dev.	Sample Conc.	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.

==========

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	Calib. Conc.	Units	Std.Dev.	Sample Conc.	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%

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.

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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.

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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

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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**	**Calib. Conc.**	**Units**	**Std.Dev.**	**Sample Conc.**	**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

==========

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**

```
Ti 334.940†          718277.8      0.9853 mg/L       0.00257      0.9853 mg/L       0.00257   0.26%
   QC value within limits for Ti 334.940  Recovery = 98.53%
B 249.772†             2204.5       1.795 mg/L        0.0050       1.795 mg/L        0.0050   0.28%
   QC value less than the lower limit for B 249.772  Recovery = 89.76%
Na 589.592†          266404.9       53.34 mg/L         0.196       53.34 mg/L         0.196   0.37%
   QC value within limits for Na 589.592  Recovery = 106.68%
K 766.490†            50337.2       49.70 mg/L         0.161       49.70 mg/L         0.161   0.32%
   QC value within limits for K 766.490  Recovery = 99.40%
Li 670.784†           54138.3       1.550 mg/L        0.0010       1.550 mg/L        0.0010   0.06%
   QC value within limits for Li 670.784  Recovery = 103.33%
Sr 407.771†          505764.2       1.055 mg/L        0.0028       1.055 mg/L        0.0028   0.26%
   QC value within limits for Sr 407.771  Recovery = 105.52%
QC Failed.  Retry.
```

==========

Sequence No.: 76 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/4/2014 12:01:57 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	199.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2638732.4	102.3	mg/L	2.48				2.42%
Y 360.073 R	55389.2	9.446	mg/L	0.1433				1.52%
Ag 328.068†	163180.9	0.9521	mg/L	0.00271	0.9521	mg/L	0.00271	0.28%
QC value within limits for Ag 328.068 Recovery = 95.21%								
Al 308.215†	3758.7	9.385	mg/L	0.1730	9.385	mg/L	0.1730	1.84%
QC value within limits for Al 308.215 Recovery = 93.85%								
As 188.979†	1793.4	1.932	mg/L	0.0371	1.932	mg/L	0.0371	1.92%
QC value within limits for As 188.979 Recovery = 96.60%								
Ba 233.527†	43784.0	0.5252	mg/L	0.00896	0.5252	mg/L	0.00896	1.71%
QC value within limits for Ba 233.527 Recovery = 105.05%								
Be 313.107†	332750.6	0.1949	mg/L	0.00014	0.1949	mg/L	0.00014	0.07%
QC value within limits for Be 313.107 Recovery = 97.43%								
Ca 315.887†	3308870.0	49.21	mg/L	0.183	49.21	mg/L	0.183	0.37%
QC value within limits for Ca 315.887 Recovery = 98.42%								
Cd 214.440†	33935.5	0.4922	mg/L	0.00277	0.4922	mg/L	0.00277	0.56%
QC value within limits for Cd 214.440 Recovery = 98.44%								
Co 228.616†	32286.6	1.039	mg/L	0.0179	1.039	mg/L	0.0179	1.72%
QC value within limits for Co 228.616 Recovery = 103.93%								
Cr 205.560†	24469.7	1.032	mg/L	0.0162	1.032	mg/L	0.0162	1.57%
QC value within limits for Cr 205.560 Recovery = 103.18%								
Cu 324.752†	311805.0	1.901	mg/L	0.0031	1.901	mg/L	0.0031	0.16%
QC value within limits for Cu 324.752 Recovery = 95.07%								
Fe 238.863†	171963.9	9.663	mg/L	0.0245	9.663	mg/L	0.0245	0.25%
QC value within limits for Fe 238.863 Recovery = 96.63%								
Mg 279.077†	65867.4	9.755	mg/L	0.0397	9.755	mg/L	0.0397	0.41%
QC value within limits for Mg 279.077 Recovery = 97.55%								
Mn 257.610†	651456.6	1.009	mg/L	0.0019	1.009	mg/L	0.0019	0.19%
QC value within limits for Mn 257.610 Recovery = 100.92%								
Mo 202.031†	5511.2	0.4878	mg/L	0.00873	0.4878	mg/L	0.00873	1.79%
QC value within limits for Mo 202.031 Recovery = 97.57%								
Ni 232.003†	15288.8	2.028	mg/L	0.0297	2.028	mg/L	0.0297	1.46%
QC value within limits for Ni 232.003 Recovery = 101.38%								
Pb 220.353†	1798.9	0.4959	mg/L	0.01161	0.4959	mg/L	0.01161	2.34%
QC value within limits for Pb 220.353 Recovery = 99.17%								
Sb 206.836†	3885.2	1.914	mg/L	0.0347	1.914	mg/L	0.0347	1.81%
QC value within limits for Sb 206.836 Recovery = 95.70%								
Se 196.026†	2079.0	1.918	mg/L	0.0310	1.918	mg/L	0.0310	1.62%
QC value within limits for Se 196.026 Recovery = 95.89%								
Si 251.611†	1064.3	1.955	mg/L	0.0359	1.955	mg/L	0.0359	1.84%
QC value within limits for Si 251.611 Recovery = 97.75%								
Sn 189.927†	8866.6	1.943	mg/L	0.0306	1.943	mg/L	0.0306	1.58%

```
   QC value within limits for Sn 189.927  Recovery = 97.15%
Tl 190.801†            2854.6       1.979 mg/L        0.0370       1.979 mg/L        0.0370   1.87%
   QC value within limits for Tl 190.801  Recovery = 98.96%
V 292.402†            98538.5      0.9740 mg/L       0.00113      0.9740 mg/L       0.00113   0.12%
   QC value within limits for V 292.402  Recovery = 97.40%
Zn 213.857†          174515.3       2.848 mg/L        0.0070       2.848 mg/L        0.0070   0.24%
   QC value within limits for Zn 213.857  Recovery = 94.94%
Ti 334.940†          716365.9      0.9827 mg/L       0.00150      0.9827 mg/L       0.00150   0.15%
   QC value within limits for Ti 334.940  Recovery = 98.27%
B 249.772†             2225.0       1.812 mg/L        0.0366       1.812 mg/L        0.0366   2.02%
   QC value within limits for B 249.772  Recovery = 90.62%
Na 589.592†          267035.5       53.47 mg/L         0.158       53.47 mg/L         0.158   0.30%
   QC value within limits for Na 589.592  Recovery = 106.93%
K 766.490†            50870.3       50.22 mg/L         0.016       50.22 mg/L         0.016   0.03%
   QC value within limits for K 766.490  Recovery = 100.45%
Li 670.784†           54092.0       1.549 mg/L        0.0045       1.549 mg/L        0.0045   0.29%
   QC value within limits for Li 670.784  Recovery = 103.24%
Sr 407.771†          504605.0       1.053 mg/L        0.0025       1.053 mg/L        0.0025   0.24%
   QC value within limits for Sr 407.771  Recovery = 105.27%
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.: 77 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/4/2014 12:06:52 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	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	2748121.3	106.5	mg/L	0.46				0.44%
Y 360.073 R	57818.9	9.860	mg/L	0.1282				1.30%
Ag 328.068†	498.2	0.00290	mg/L	0.000679	0.00290	mg/L	0.000679	23.40%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	1.2	0.0030	mg/L	0.01072	0.0030	mg/L	0.01072	361.60%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.2	0.0013	mg/L	0.00280	0.0013	mg/L	0.00280	218.89%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	34.7	0.0004	mg/L	0.00011	0.0004	mg/L	0.00011	25.42%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-42.8	-0.00003	mg/L	0.000019	-0.00003	mg/L	0.000019	77.14%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1737.9	0.02585	mg/L	0.003766	0.02585	mg/L	0.003766	14.57%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-26.5	-0.0004	mg/L	0.00015	-0.0004	mg/L	0.00015	40.01%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	21.7	0.0007	mg/L	0.00037	0.0007	mg/L	0.00037	52.78%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	21.5	0.0009	mg/L	0.00017	0.0009	mg/L	0.00017	18.93%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	1532.9	0.0093	mg/L	0.00116	0.0093	mg/L	0.00116	12.38%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	234.9	0.0132	mg/L	0.00046	0.0132	mg/L	0.00046	3.52%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	-3.4	-0.0005	mg/L	0.00036	-0.0005	mg/L	0.00036	69.27%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	4823.8	0.0075	mg/L	0.00019	0.0075	mg/L	0.00019	2.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-4.1	-0.00036	mg/L	0.000211	-0.00036	mg/L	0.000211	58.04%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	19.0	0.0025	mg/L	0.00219	0.0025	mg/L	0.00219	86.83%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-7.2	-0.00199	mg/L	0.001474	-0.00199	mg/L	0.001474	73.94%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-4.1	-0.0020	mg/L	0.00082	-0.0020	mg/L	0.00082	40.70%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.1	-0.0010	mg/L	0.00622	-0.0010	mg/L	0.00622	626.81%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	11.7	0.0215	mg/L	0.00346	0.0215	mg/L	0.00346	16.10%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-2.3	-0.0005	mg/L	0.00065	-0.0005	mg/L	0.00065	127.22%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	2.6	0.0018	mg/L	0.00223	0.0018	mg/L	0.00223	125.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	31.6	0.0003	mg/L	0.00016	0.0003	mg/L	0.00016	52.96%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	192.6	0.0031	mg/L	0.00029	0.0031	mg/L	0.00029	9.30%
QC value within limits for Zn 213.857 Recovery = Not calculated								

Ti 334.940†	528.8	0.0007 mg/L	0.00030	0.0007 mg/L	0.00030	40.90%
QC value within limits for Ti 334.940 Recovery = Not calculated						
B 249.772†	24.2	0.0199 mg/L	0.00549	0.0199 mg/L	0.00549	27.57%
QC value within limits for B 249.772 Recovery = Not calculated						
Na 589.592†	795.1	0.1592 mg/L	0.01521	0.1592 mg/L	0.01521	9.55%
QC value within limits for Na 589.592 Recovery = Not calculated						
K 766.490†	392.6	0.3876 mg/L	0.14386	0.3876 mg/L	0.14386	37.11%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	83.3	0.00238 mg/L	0.001484	0.00238 mg/L	0.001484	62.25%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 407.771†	238.6	0.00050 mg/L	0.000112	0.00050 mg/L	0.000112	22.47%
QC value within limits for Sr 407.771 Recovery = Not calculated						

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.: 78 **Autosampler Location: 131**
Sample ID: BLANK WG752045 **Date Collected: 11/4/2014 12:11:52 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: BLANK WG752045

Analyte	Back Pressure	Flow
All	198.0 kPa	0.55 L/min

Mean Data: BLANK WG752045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2770814.1	107.4	mg/L	1.08				1.00%
Y 360.073 R	58203.1	9.926	mg/L	0.0283				0.28%
Ag 328.068†	494.2	0.00288	mg/L	0.000398	0.2880	mg/kg	0.03980	13.82%
Al 308.215†	30.5	0.0763	mg/L	0.00621	7.632	mg/kg	0.6215	8.14%
As 188.979†	3.8	0.0041	mg/L	0.01481	0.4100	mg/kg	1.48113	361.24%
Ba 233.527†	75.4	0.0009	mg/L	0.00015	0.0905	mg/kg	0.01486	16.42%
Be 313.107†	110.2	0.00006	mg/L	0.000016	0.00645	mg/kg	0.001643	25.45%
Ca 315.887†	8851.9	0.1316	mg/L	0.01242	13.16	mg/kg	1.242	9.44%
Cd 214.440†	-47.3	-0.0007	mg/L	0.00009	-0.0689	mg/kg	0.00872	12.66%
Co 228.616†	27.0	0.0009	mg/L	0.00012	0.0870	mg/kg	0.01193	13.71%
Cr 205.560†	17.1	0.0007	mg/L	0.00008	0.0718	mg/kg	0.00758	10.56%
Cu 324.752†	4225.1	0.0258	mg/L	0.00139	2.577	mg/kg	0.1387	5.38%
Fe 238.863†	739.9	0.0416	mg/L	0.00590	4.158	mg/kg	0.5895	14.18%
Mg 279.077†	79.2	0.0117	mg/L	0.00388	1.170	mg/kg	0.3877	33.14%
Mn 257.610†	10516.7	0.0163	mg/L	0.00362	1.630	mg/kg	0.3624	22.24%
Mo 202.031†	-3.3	-0.00029	mg/L	0.000327	-0.02874	mg/kg	0.032724	113.85%
Ni 232.003†	54.9	0.0073	mg/L	0.00037	0.7276	mg/kg	0.03720	5.11%
Pb 220.353†	-4.6	-0.00126	mg/L	0.002961	-0.1259	mg/kg	0.29607	235.18%
Sb 206.836†	-11.3	-0.0056	mg/L	0.00071	-0.5553	mg/kg	0.07123	12.83%
Se 196.026†	-4.4	-0.0040	mg/L	0.00337	-0.4013	mg/kg	0.33710	83.99%
Si 251.611†	11.0	0.0203	mg/L	0.00708	2.029	mg/kg	0.7080	34.90%
Sn 189.927†	6.5	0.0014	mg/L	0.00196	0.1437	mg/kg	0.19598	136.34%
Tl 190.801†	3.9	0.0027	mg/L	0.00216	0.2691	mg/kg	0.21595	80.24%
V 292.402†	91.8	0.0009	mg/L	0.00029	0.0905	mg/kg	0.02907	32.11%
Zn 213.857†	539.1	0.0088	mg/L	0.00051	0.8796	mg/kg	0.05056	5.75%
Ti 334.940†	918.3	0.0013	mg/L	0.00016	0.1260	mg/kg	0.01626	12.91%
B 249.772†	16.2	0.0132	mg/L	0.00102	1.325	mg/kg	0.1024	7.73%
Na 589.592†	807.3	0.1616	mg/L	0.04019	16.16	mg/kg	4.019	24.86%
K 766.490†	343.4	0.3390	mg/L	0.05727	33.90	mg/kg	5.727	16.89%
Li 670.784†	355.3	0.01017	mg/L	0.001169	1.017	mg/kg	0.1169	11.49%
Sr 407.771†	1446.6	0.00302	mg/L	0.000328	0.3018	mg/kg	0.03275	10.85%

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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:

==========

Sequence No.: 79 **Autosampler Location: 132**
Sample ID: LCS WG752045 **Date Collected: 11/4/2014 12:16:54 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 WG752045

Analyte	Back Pressure	Flow
All	200.0 kPa	0.55 L/min

Mean Data: LCS WG752045

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2670014.4	103.5	mg/L	0.53				0.51%
Y 360.073 R	57165.7	9.749	mg/L	0.3021				3.10%
Ag 328.068†	45401.1	0.2705	mg/L	0.00266	27.05	mg/kg	0.266	0.98%
Al 308.215†	30728.9	76.90	mg/L	0.548	7690	mg/kg	54.80	0.71%
As 188.979†	2327.9	2.501	mg/L	0.0238	250.1	mg/kg	2.38	0.95%
Ba 233.527†	217897.4	2.614	mg/L	0.0150	261.4	mg/kg	1.50	0.57%
Be 313.107†	1725176.3	1.010	mg/L	0.0016	101.0	mg/kg	0.16	0.16%
Ca 315.887†	5212892.7	77.54	mg/L	0.067	7754	mg/kg	6.65	0.09%
Cd 214.440†	139904.6	2.024	mg/L	0.0126	202.4	mg/kg	1.26	0.62%
Co 228.616†	60055.6	1.933	mg/L	0.0111	193.3	mg/kg	1.11	0.58%
Cr 205.560†	31450.5	1.324	mg/L	0.0096	132.4	mg/kg	0.96	0.72%
Cu 324.752†	217391.5	1.331	mg/L	0.0079	133.1	mg/kg	0.79	0.59%
Fe 238.863†	2085850.6	117.2	mg/L	0.10	11720	mg/kg	10.16	0.09%
Mg 279.077†	198622.3	29.37	mg/L	0.243	2937	mg/kg	24.35	0.83%
Mn 257.610†	2285741.8	3.540	mg/L	0.0010	354.0	mg/kg	0.10	0.03%
Mo 202.031†	11409.6	1.014	mg/L	0.0126	101.4	mg/kg	1.26	1.25%
Ni 232.003†	10412.0	1.389	mg/L	0.0151	138.9	mg/kg	1.51	1.08%
Pb 220.353†	3962.4	1.082	mg/L	0.0130	108.2	mg/kg	1.30	1.20%
Sb 206.836†	2707.9	1.338	mg/L	0.0209	133.8	mg/kg	2.09	1.56%
Se 196.026†	1228.7	1.184	mg/L	0.0121	118.4	mg/kg	1.21	1.02%
Si 251.611†	8850.0	16.28	mg/L	0.122	1628	mg/kg	12.21	0.75%
Sn 189.927†	4592.1	1.022	mg/L	0.0111	102.2	mg/kg	1.11	1.09%
Tl 190.801†	2418.2	1.678	mg/L	0.0169	167.8	mg/kg	1.69	1.01%
V 292.402†	122182.2	1.200	mg/L	0.0086	120.0	mg/kg	0.86	0.71%
Zn 213.857†	110177.2	1.782	mg/L	0.0093	178.2	mg/kg	0.93	0.52%
Ti 334.940†	819965.3	1.124	mg/L	0.0010	112.4	mg/kg	0.10	0.09%
B 249.772†	1839.6	1.262	mg/L	0.0123	126.2	mg/kg	1.23	0.97%
Na 589.592†	30506.4	6.081	mg/L	0.0323	608.1	mg/kg	3.23	0.53%
K 766.490†	27095.4	26.75	mg/L	0.089	2675	mg/kg	8.94	0.33%
Li 670.784†	3266.5	0.09309	mg/L	0.002477	9.309	mg/kg	0.2477	2.66%
Sr 407.771†	675711.9	1.410	mg/L	0.0024	141.0	mg/kg	0.24	0.17%

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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.: 80 **Autosampler Location: 133**
Sample ID: LCSD WG752045 **Date Collected: 11/4/2014 12:21:59 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 WG752045

Analyte	Back Pressure	Flow
All	199.0 kPa	0.55 L/min

Mean Data: LCSD WG752045

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2695572.5	104.5	mg/L	0.35				0.33%
Y 360.073 R	56785.7	9.684	mg/L	0.0575				0.59%
Ag 328.068†	77200.0	0.4559	mg/L	0.00373	45.59	mg/kg	0.373	0.82%
Al 308.215†	34676.0	86.79	mg/L	0.904	8679	mg/kg	90.36	1.04%
As 188.979†	2209.0	2.372	mg/L	0.0172	237.2	mg/kg	1.72	0.73%
Ba 233.527†	210583.4	2.526	mg/L	0.0266	252.6	mg/kg	2.66	1.05%
Be 313.107†	1631046.3	0.9553	mg/L	0.00380	95.53	mg/kg	0.380	0.40%
Ca 315.887†	4466510.8	66.44	mg/L	0.283	6644	mg/kg	28.32	0.43%
Cd 214.440†	132875.5	1.922	mg/L	0.0200	192.2	mg/kg	2.00	1.04%
Co 228.616†	57393.7	1.848	mg/L	0.0146	184.8	mg/kg	1.46	0.79%
Cr 205.560†	30544.9	1.286	mg/L	0.0127	128.6	mg/kg	1.27	0.98%
Cu 324.752†	206441.5	1.264	mg/L	0.0121	126.4	mg/kg	1.21	0.95%
Fe 238.863†	2195379.3	123.4	mg/L	0.67	12340	mg/kg	67.32	0.55%
Mg 279.077†	202991.5	30.02	mg/L	0.342	3002	mg/kg	34.15	1.14%
Mn 257.610†	2179242.0	3.375	mg/L	0.0138	337.5	mg/kg	1.38	0.41%
Mo 202.031†	10828.6	0.9626	mg/L	0.00645	96.26	mg/kg	0.645	0.67%
Ni 232.003†	9745.8	1.301	mg/L	0.0092	130.1	mg/kg	0.92	0.71%
Pb 220.353†	3737.2	1.020	mg/L	0.0073	102.0	mg/kg	0.73	0.72%
Sb 206.836†	2734.1	1.350	mg/L	0.0103	135.0	mg/kg	1.03	0.76%
Se 196.026†	1152.2	1.117	mg/L	0.0101	111.7	mg/kg	1.01	0.91%
Si 251.611†	8355.4	15.38	mg/L	0.153	1538	mg/kg	15.31	1.00%
Sn 189.927†	4591.0	1.022	mg/L	0.0069	102.2	mg/kg	0.69	0.68%
Tl 190.801†	2318.2	1.609	mg/L	0.0159	160.9	mg/kg	1.59	0.99%
V 292.402†	119670.3	1.174	mg/L	0.0129	117.4	mg/kg	1.29	1.09%
Zn 213.857†	106188.6	1.715	mg/L	0.0160	171.5	mg/kg	1.60	0.93%
Ti 334.940†	950421.1	1.303	mg/L	0.0072	130.3	mg/kg	0.72	0.55%
B 249.772†	1830.3	1.241	mg/L	0.0173	124.1	mg/kg	1.73	1.40%
Na 589.592†	29348.9	5.849	mg/L	0.0278	584.9	mg/kg	2.78	0.47%
K 766.490†	28160.3	27.80	mg/L	0.112	2780	mg/kg	11.22	0.40%
Li 670.784†	3569.6	0.1018	mg/L	0.00145	10.18	mg/kg	0.145	1.43%
Sr 407.771†	653945.1	1.364	mg/L	0.0030	136.4	mg/kg	0.30	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.: 81 **Autosampler Location: 134**
Sample ID: L729563-01 WG752045 **Date Collected: 11/4/2014 12:27:04 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: L729563-01 WG752045

Analyte	Back Pressure	Flow
All	200.0 kPa	0.55 L/min

Mean Data: L729563-01 WG752045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2562256.7	99.32	mg/L	0.607				0.61%
Y 360.073 R	54624.5	9.316	mg/L	0.0392				0.42%
Ag 328.068†	431.5	0.00055	mg/L	0.000421	0.2707	mg/kg	0.20621	76.18%
Al 308.215†	863.3	2.089	mg/L	0.0340	1024	mg/kg	16.67	1.63%
As 188.979†	14.7	0.0034	mg/L	0.00508	1.653	mg/kg	2.4907	150.64%
Ba 233.527†	3588.7	0.0426	mg/L	0.00081	20.89	mg/kg	0.397	1.90%
Be 313.107†	508.5	0.00027	mg/L	0.000064	0.1311	mg/kg	0.03156	24.07%
Ca 315.887†	24484478.4	364.1	mg/L	6.49	178500	mg/kg	3182.80	1.78%
Cd 214.440†	58.0	-0.0002	mg/L	0.00018	-0.0800	mg/kg	0.09065	113.38%
Co 228.616†	70.0	0.0008	mg/L	0.00026	0.3791	mg/kg	0.12776	33.71%
Cr 205.560†	139.0	0.0038	mg/L	0.00043	1.881	mg/kg	0.2107	11.20%
Cu 324.752†	1371.7	0.0044	mg/L	0.00052	2.147	mg/kg	0.2529	11.78%
Fe 238.863†	49044.1	2.749	mg/L	0.0132	1348	mg/kg	6.47	0.48%
Mg 279.077†	14167.5	2.081	mg/L	0.0018	1020	mg/kg	0.87	0.09%
Mn 257.610†	39040.0	0.0600	mg/L	0.00033	29.42	mg/kg	0.162	0.55%
Mo 202.031†	32.9	0.00105	mg/L	0.000447	0.5150	mg/kg	0.21906	42.54%
Ni 232.003†	35.7	0.0098	mg/L	0.00181	4.810	mg/kg	0.8890	18.48%
Pb 220.353†	-13.2	0.00479	mg/L	0.002145	2.348	mg/kg	1.0513	44.77%
Sb 206.836†	1.0	0.0001	mg/L	0.00109	0.0493	mg/kg	0.53500	>999.9%
Se 196.026†	15.0	0.0065	mg/L	0.00525	3.168	mg/kg	2.5729	81.22%
Si 251.611†	1067.7	1.951	mg/L	0.0601	956.5	mg/kg	29.47	3.08%
Sn 189.927†	-12.6	0.0005	mg/L	0.00225	0.2574	mg/kg	1.10465	429.11%
Tl 190.801†	7.9	-0.0005	mg/L	0.00291	-0.2372	mg/kg	1.42736	601.74%
V 292.402†	628.4	0.0056	mg/L	0.00028	2.767	mg/kg	0.1377	4.98%
Zn 213.857†	-257.6	0.0045	mg/L	0.00054	2.186	mg/kg	0.2667	12.20%
Ti 334.940†	17992.2	0.0267	mg/L	0.00042	13.08	mg/kg	0.208	1.59%
B 249.772†	34.8	0.0219	mg/L	0.00510	10.72	mg/kg	2.499	23.31%
Na 589.592†	4801.1	0.9209	mg/L	0.00420	451.4	mg/kg	2.06	0.46%
K 766.490†	884.4	0.8579	mg/L	0.03232	420.5	mg/kg	15.84	3.77%
Li 670.784†	234.1	0.00620	mg/L	0.001811	3.039	mg/kg	0.8876	29.21%
Sr 407.771†	859994.0	1.790	mg/L	0.0078	877.3	mg/kg	3.80	0.43%

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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.: 82 **Autosampler Location: 135**
Sample ID: SD L729563-01 WG752045 **Date Collected: 11/4/2014 12:32:21 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.51 g **Initial Sample Vol:**
Dilution: 25X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: SD L729563-01 WG752045

Analyte	Back Pressure	Flow
All	199.0 kPa	0.55 L/min

Mean Data: SD L729563-01 WG752045

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2622382.9	101.6	mg/L	1.38				1.36%
Y 360.073 R	56655.9	9.662	mg/L	0.1362				1.41%
Ag 328.068†	420.0	0.00204	mg/L	0.000456	5.004	mg/kg	1.1186	22.35%
Al 308.215†	181.3	0.4391	mg/L	0.00719	1076	mg/kg	17.62	1.64%
As 188.979†	7.6	0.0056	mg/L	0.00196	13.79	mg/kg	4.802	34.81%
Ba 233.527†	752.7	0.0089	mg/L	0.00017	21.91	mg/kg	0.416	1.90%
Be 313.107†	134.3	0.00007	mg/L	0.000020	0.1774	mg/kg	0.04840	27.28%
Ca 315.887†	5046063.8	75.03	mg/L	0.156	183900	mg/kg	381.52	0.21%
Cd 214.440†	18.6	0.0001	mg/L	0.00029	0.1548	mg/kg	0.70118	452.93%
Co 228.616†	20.2	0.0003	mg/L	0.00025	0.8453	mg/kg	0.61423	72.66%
Cr 205.560†	58.7	0.0021	mg/L	0.00023	5.047	mg/kg	0.5637	11.17%
Cu 324.752†	672.5	0.0033	mg/L	0.00045	8.038	mg/kg	1.1027	13.72%
Fe 238.863†	10118.2	0.5672	mg/L	0.00619	1390	mg/kg	15.17	1.09%
Mg 279.077†	2803.7	0.4116	mg/L	0.00845	1009	mg/kg	20.70	2.05%
Mn 257.610†	8158.0	0.0125	mg/L	0.00002	30.74	mg/kg	0.060	0.19%
Mo 202.031†	22.0	0.00157	mg/L	0.000153	3.838	mg/kg	0.3739	9.74%
Ni 232.003†	-3.3	0.0006	mg/L	0.00333	1.511	mg/kg	8.1647	540.32%
Pb 220.353†	-8.1	-0.00051	mg/L	0.001204	-1.244	mg/kg	2.9501	237.23%
Sb 206.836†	-7.5	-0.0038	mg/L	0.00319	-9.244	mg/kg	7.8160	84.56%
Se 196.026†	14.7	0.0120	mg/L	0.00171	29.42	mg/kg	4.190	14.24%
Si 251.611†	217.4	0.3973	mg/L	0.00864	973.7	mg/kg	21.19	2.18%
Sn 189.927†	-8.0	-0.0011	mg/L	0.00351	-2.625	mg/kg	8.5965	327.51%
Tl 190.801†	4.6	0.0020	mg/L	0.00267	4.843	mg/kg	6.5368	134.97%
V 292.402†	110.6	0.0010	mg/L	0.00017	2.392	mg/kg	0.4184	17.49%
Zn 213.857†	-376.9	-0.0044	mg/L	0.00027	-10.70	mg/kg	0.653	6.10%
Ti 334.940†	3636.6	0.0054	mg/L	0.00015	13.24	mg/kg	0.380	2.87%
B 249.772†	6.1	0.0036	mg/L	0.00275	8.877	mg/kg	6.7432	75.97%
Na 589.592†	1025.6	0.1970	mg/L	0.00436	482.9	mg/kg	10.68	2.21%
K 766.490†	237.8	0.2316	mg/L	0.04474	567.7	mg/kg	109.65	19.31%
Li 670.784†	53.2	0.00142	mg/L	0.001561	3.481	mg/kg	3.8269	109.95%
Sr 407.771†	174332.7	0.3628	mg/L	0.00056	889.2	mg/kg	1.37	0.15%

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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.: 83 **Autosampler Location: 136**
Sample ID: MS L729563-01 WG752045 **Date Collected: 11/4/2014 12:37:23 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: MS L729563-01 WG752045

Analyte	Back Pressure	Flow
All	201.0 kPa	0.55 L/min

Mean Data: MS L729563-01 WG752045

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2544395.2	98.62	mg/L	0.834				0.85%
Y 360.073 R	55537.3	9.471	mg/L	0.2333				2.46%
Ag 328.068†	17537.0	0.1005	mg/L	0.00604	49.24	mg/kg	2.961	6.01%
Al 308.215†	1600.7	3.928	mg/L	0.1067	1925	mg/kg	52.28	2.72%
As 188.979†	216.2	0.2198	mg/L	0.01640	107.7	mg/kg	8.04	7.46%
Ba 233.527†	20444.2	0.2449	mg/L	0.01468	120.1	mg/kg	7.20	5.99%
Be 313.107†	348394.4	0.2040	mg/L	0.01483	100.0	mg/kg	7.27	7.27%
Ca 315.887†	25917421.3	385.4	mg/L	33.39	188900	mg/kg	16367.07	8.66%
Cd 214.440†	13896.2	0.2007	mg/L	0.01229	98.39	mg/kg	6.025	6.12%
Co 228.616†	6979.2	0.2231	mg/L	0.01192	109.4	mg/kg	5.84	5.34%
Cr 205.560†	5248.0	0.2192	mg/L	0.01228	107.5	mg/kg	6.02	5.60%
Cu 324.752†	36080.7	0.2158	mg/L	0.01329	105.8	mg/kg	6.51	6.16%
Fe 238.863†	68834.8	3.861	mg/L	0.2373	1893	mg/kg	116.32	6.15%
Mg 279.077†	30604.6	4.515	mg/L	0.2744	2213	mg/kg	134.49	6.08%
Mn 257.610†	175236.7	0.2710	mg/L	0.01669	132.8	mg/kg	8.18	6.16%
Mo 202.031†	2379.9	0.2086	mg/L	0.01128	102.3	mg/kg	5.53	5.41%
Ni 232.003†	1746.2	0.2369	mg/L	0.01503	116.1	mg/kg	7.37	6.34%
Pb 220.353†	755.9	0.2170	mg/L	0.01103	106.4	mg/kg	5.40	5.08%
Sb 206.836†	412.8	0.2033	mg/L	0.01214	99.64	mg/kg	5.952	5.97%
Se 196.026†	247.3	0.2204	mg/L	0.00990	108.0	mg/kg	4.85	4.49%
Si 251.611†	1083.3	1.979	mg/L	0.0335	970.1	mg/kg	16.43	1.69%
Sn 189.927†	903.6	0.2014	mg/L	0.01185	98.74	mg/kg	5.808	5.88%
Tl 190.801†	309.6	0.2082	mg/L	0.01248	102.1	mg/kg	6.12	5.99%
V 292.402†	22037.5	0.2173	mg/L	0.01289	106.5	mg/kg	6.32	5.93%
Zn 213.857†	12208.1	0.2083	mg/L	0.01277	102.1	mg/kg	6.26	6.13%
Ti 334.940†	197674.9	0.2732	mg/L	0.01672	133.9	mg/kg	8.19	6.12%
B 249.772†	227.1	0.1779	mg/L	0.00416	87.18	mg/kg	2.040	2.34%
Na 589.592†	14175.9	2.795	mg/L	0.0875	1370	mg/kg	42.90	3.13%
K 766.490†	2870.8	2.818	mg/L	0.1067	1381	mg/kg	52.30	3.79%
Li 670.784†	7098.1	0.2027	mg/L	0.00392	99.35	mg/kg	1.923	1.94%
Sr 407.771†	861071.9	1.792	mg/L	0.0673	878.3	mg/kg	32.98	3.75%

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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.: 84 **Autosampler Location: 137**
Sample ID: MSD L729563-01 WG752045 **Date Collected: 11/4/2014 12:42:40 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: MSD L729563-01 WG752045

Analyte	Back Pressure	Flow
All	200.0 kPa	0.55 L/min

Mean Data: MSD L729563-01 WG752045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2588532.5	100.3	mg/L	1.07				1.07%
Y 360.073 R	56713.7	9.672	mg/L	0.1433				1.48%
Ag 328.068†	22788.1	0.1310	mg/L	0.00120	65.52	mg/kg	0.602	0.92%
Al 308.215†	1751.2	4.305	mg/L	0.0228	2152	mg/kg	11.41	0.53%
As 188.979†	201.7	0.2042	mg/L	0.01098	102.1	mg/kg	5.49	5.38%
Ba 233.527†	19933.0	0.2388	mg/L	0.00296	119.4	mg/kg	1.48	1.24%
Be 313.107†	336615.1	0.1971	mg/L	0.00011	98.56	mg/kg	0.056	0.06%
Ca 315.887†	25819366.7	383.9	mg/L	6.28	192000	mg/kg	3137.58	1.63%
Cd 214.440†	13574.3	0.1961	mg/L	0.00264	98.03	mg/kg	1.320	1.35%
Co 228.616†	6653.1	0.2126	mg/L	0.00206	106.3	mg/kg	1.03	0.97%
Cr 205.560†	5003.0	0.2089	mg/L	0.00250	104.4	mg/kg	1.25	1.20%
Cu 324.752†	35116.5	0.2100	mg/L	0.00194	105.0	mg/kg	0.97	0.92%
Fe 238.863†	69072.2	3.874	mg/L	0.0462	1937	mg/kg	23.12	1.19%
Mg 279.077†	30096.5	4.440	mg/L	0.0438	2220	mg/kg	21.90	0.99%
Mn 257.610†	171987.8	0.2659	mg/L	0.00310	133.0	mg/kg	1.55	1.17%
Mo 202.031†	2282.0	0.2000	mg/L	0.00272	99.98	mg/kg	1.362	1.36%
Ni 232.003†	1659.7	0.2254	mg/L	0.00310	112.7	mg/kg	1.55	1.37%
Pb 220.353†	716.3	0.2061	mg/L	0.00401	103.0	mg/kg	2.00	1.94%
Sb 206.836†	393.5	0.1937	mg/L	0.00655	96.86	mg/kg	3.275	3.38%
Se 196.026†	232.8	0.2071	mg/L	0.01220	103.5	mg/kg	6.10	5.89%
Si 251.611†	1293.1	2.365	mg/L	0.0135	1182	mg/kg	6.73	0.57%
Sn 189.927†	853.3	0.1904	mg/L	0.00395	95.20	mg/kg	1.975	2.07%
Tl 190.801†	297.5	0.1998	mg/L	0.00073	99.89	mg/kg	0.365	0.37%
V 292.402†	21555.9	0.2126	mg/L	0.00272	106.3	mg/kg	1.36	1.28%
Zn 213.857†	11831.1	0.2021	mg/L	0.00239	101.0	mg/kg	1.20	1.18%
Ti 334.940†	189369.3	0.2618	mg/L	0.00306	130.9	mg/kg	1.53	1.17%
B 249.772†	255.1	0.2009	mg/L	0.00308	100.5	mg/kg	1.54	1.53%
Na 589.592†	15904.8	3.142	mg/L	0.0204	1571	mg/kg	10.21	0.65%
K 766.490†	3060.4	3.005	mg/L	0.0698	1503	mg/kg	34.90	2.32%
Li 670.784†	8010.5	0.2288	mg/L	0.00166	114.4	mg/kg	0.83	0.72%
Sr 407.771†	990596.0	2.062	mg/L	0.0285	1031	mg/kg	14.26	1.38%

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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.: 85 **Autosampler Location: 138**
Sample ID: L729563-02 WG752045 **Date Collected: 11/4/2014 12:47:57 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: L729563-02 WG752045

Analyte	Back Pressure	Flow
All	201.0 kPa	0.55 L/min

Mean Data: L729563-02 WG752045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2623069.6	101.7	mg/L	1.33				1.31%
Y 360.073 R	56191.0	9.583	mg/L	0.0074				0.08%
Ag 328.068†	451.6	0.00128	mg/L	0.000434	0.6267	mg/kg	0.21282	33.96%
Al 308.215†	1792.4	4.432	mg/L	0.3067	2173	mg/kg	150.37	6.92%
As 188.979†	14.6	0.0060	mg/L	0.00078	2.925	mg/kg	0.3844	13.14%
Ba 233.527†	4317.5	0.0514	mg/L	0.00104	25.20	mg/kg	0.509	2.02%
Be 313.107†	353.6	0.00019	mg/L	0.000017	0.09100	mg/kg	0.008545	9.39%
Ca 315.887†	18676704.2	277.7	mg/L	3.31	136100	mg/kg	1624.29	1.19%
Cd 214.440†	-3.1	-0.0010	mg/L	0.00017	-0.5101	mg/kg	0.08498	16.66%
Co 228.616†	73.5	0.0012	mg/L	0.00021	0.6097	mg/kg	0.10258	16.83%
Cr 205.560†	216.8	0.0075	mg/L	0.00043	3.694	mg/kg	0.2114	5.72%
Cu 324.752†	1187.7	0.0044	mg/L	0.00015	2.147	mg/kg	0.0716	3.33%
Fe 238.863†	102577.0	5.759	mg/L	0.0623	2823	mg/kg	30.56	1.08%
Mg 279.077†	22420.4	3.307	mg/L	0.0293	1621	mg/kg	14.34	0.88%
Mn 257.610†	43160.9	0.0664	mg/L	0.00067	32.55	mg/kg	0.329	1.01%
Mo 202.031†	28.4	0.00125	mg/L	0.000292	0.6110	mg/kg	0.14307	23.42%
Ni 232.003†	61.8	0.0123	mg/L	0.00313	6.053	mg/kg	1.5344	25.35%
Pb 220.353†	-9.1	0.00364	mg/L	0.002457	1.782	mg/kg	1.2043	67.58%
Sb 206.836†	-3.0	-0.0017	mg/L	0.00149	-0.8388	mg/kg	0.73274	87.36%
Se 196.026†	5.4	0.0011	mg/L	0.00894	0.5474	mg/kg	4.38339	800.77%
Si 251.611†	309.1	0.5602	mg/L	0.04824	274.6	mg/kg	23.65	8.61%
Sn 189.927†	-19.9	-0.0014	mg/L	0.00198	-0.6683	mg/kg	0.97043	145.21%
Tl 190.801†	5.5	-0.0007	mg/L	0.00088	-0.3235	mg/kg	0.43334	133.95%
V 292.402†	1336.9	0.0125	mg/L	0.00009	6.131	mg/kg	0.0427	0.70%
Zn 213.857†	201.1	0.0093	mg/L	0.00121	4.555	mg/kg	0.5916	12.99%
Ti 334.940†	42806.7	0.0602	mg/L	0.00033	29.51	mg/kg	0.162	0.55%
B 249.772†	30.8	0.0123	mg/L	0.00262	6.018	mg/kg	1.2819	21.30%
Na 589.592†	3631.9	0.6957	mg/L	0.02119	341.0	mg/kg	10.39	3.05%
K 766.490†	1295.2	1.267	mg/L	0.0476	621.1	mg/kg	23.34	3.76%
Li 670.784†	210.4	0.00563	mg/L	0.001871	2.758	mg/kg	0.9173	33.26%
Sr 407.771†	615899.7	1.281	mg/L	0.0550	628.2	mg/kg	26.95	4.29%

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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.: 86 **Autosampler Location: 139**
Sample ID: L729563-04 WG752045 **Date Collected: 11/4/2014 12:53:14 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.49 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729563-04 WG752045

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: L729563-04 WG752045

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2632074.9	102.0	mg/L	1.42				1.39%
Y 360.073 R	56556.8	9.645	mg/L	0.0712				0.74%
Ag 328.068†	335.5	0.00068	mg/L	0.000181	0.3478	mg/kg	0.09230	26.54%
Al 308.215†	827.2	2.023	mg/L	0.0339	1032	mg/kg	17.27	1.67%
As 188.979†	17.3	0.0103	mg/L	0.00283	5.269	mg/kg	1.4426	27.38%
Ba 233.527†	2640.8	0.0314	mg/L	0.00048	16.01	mg/kg	0.245	1.53%
Be 313.107†	110.9	0.00004	mg/L	0.000032	0.02291	mg/kg	0.016268	71.00%
Ca 315.887†	16250393.5	241.6	mg/L	2.91	123300	mg/kg	1487.00	1.21%
Cd 214.440†	-16.2	-0.0010	mg/L	0.00025	-0.4850	mg/kg	0.12791	26.37%
Co 228.616†	50.3	0.0006	mg/L	0.00038	0.3252	mg/kg	0.19244	59.17%
Cr 205.560†	126.9	0.0040	mg/L	0.00018	2.037	mg/kg	0.0913	4.48%
Cu 324.752†	718.9	0.0018	mg/L	0.00035	0.9046	mg/kg	0.17975	19.87%
Fe 238.863†	46364.1	2.601	mg/L	0.0422	1327	mg/kg	21.54	1.62%
Mg 279.077†	13961.3	2.056	mg/L	0.0308	1049	mg/kg	15.70	1.50%
Mn 257.610†	32474.9	0.0500	mg/L	0.00074	25.49	mg/kg	0.379	1.49%
Mo 202.031†	21.5	0.00070	mg/L	0.000749	0.3578	mg/kg	0.38223	106.83%
Ni 232.003†	52.7	0.0104	mg/L	0.00244	5.317	mg/kg	1.2425	23.37%
Pb 220.353†	-14.5	0.00156	mg/L	0.003587	0.7942	mg/kg	1.82994	230.42%
Sb 206.836†	-10.0	-0.0051	mg/L	0.00248	-2.623	mg/kg	1.2662	48.27%
Se 196.026†	6.1	0.0011	mg/L	0.00499	0.5785	mg/kg	2.54674	440.21%
Si 251.611†	182.9	0.3288	mg/L	0.00847	167.8	mg/kg	4.32	2.58%
Sn 189.927†	-21.8	-0.0025	mg/L	0.00367	-1.272	mg/kg	1.8737	147.36%
Tl 190.801†	7.9	0.0015	mg/L	0.00425	0.7800	mg/kg	2.16616	277.73%
V 292.402†	619.0	0.0057	mg/L	0.00029	2.900	mg/kg	0.1465	5.05%
Zn 213.857†	-353.8	-0.0002	mg/L	0.00042	-0.0788	mg/kg	0.21403	271.62%
Ti 334.940†	11938.5	0.0177	mg/L	0.00030	9.024	mg/kg	0.1520	1.68%
B 249.772†	16.5	0.0074	mg/L	0.00121	3.780	mg/kg	0.6158	16.29%
Na 589.592†	4638.2	0.9017	mg/L	0.00990	460.1	mg/kg	5.05	1.10%
K 766.490†	719.9	0.7006	mg/L	0.04235	357.4	mg/kg	21.60	6.04%
Li 670.784†	184.2	0.00494	mg/L	0.001029	2.518	mg/kg	0.5252	20.86%
Sr 407.771†	573544.5	1.194	mg/L	0.0098	609.0	mg/kg	5.01	0.82%

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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.: 87 **Autosampler Location: 140**
Sample ID: L729563-05 WG752045 **Date Collected: 11/4/2014 12:58:31 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: L729563-05 WG752045

Analyte	Back Pressure	Flow
All	201.0 kPa	0.55 L/min

Mean Data: L729563-05 WG752045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2642319.2	102.4	mg/L	0.31				0.30%
Y 360.073 R	57813.7	9.860	mg/L	0.2636				2.67%
Ag 328.068†	371.2	0.00072	mg/L	0.000396	0.3606	mg/kg	0.19797	54.90%
Al 308.215†	1321.9	3.254	mg/L	0.0482	1627	mg/kg	24.09	1.48%
As 188.979†	15.0	0.0065	mg/L	0.00429	3.231	mg/kg	2.1453	66.39%
Ba 233.527†	3363.9	0.0400	mg/L	0.00047	20.00	mg/kg	0.233	1.17%
Be 313.107†	78.4	0.00002	mg/L	0.000015	0.01166	mg/kg	0.007490	64.25%
Ca 315.887†	18761866.0	279.0	mg/L	2.80	139500	mg/kg	1399.08	1.00%
Cd 214.440†	-12.6	-0.0010	mg/L	0.00011	-0.5247	mg/kg	0.05367	10.23%
Co 228.616†	55.6	0.0007	mg/L	0.00033	0.3298	mg/kg	0.16431	49.82%
Cr 205.560†	156.9	0.0050	mg/L	0.00005	2.518	mg/kg	0.0231	0.92%
Cu 324.752†	796.9	0.0019	mg/L	0.00049	0.9403	mg/kg	0.24508	26.06%
Fe 238.863†	67100.2	3.766	mg/L	0.0381	1883	mg/kg	19.06	1.01%
Mg 279.077†	16964.9	2.499	mg/L	0.0282	1249	mg/kg	14.12	1.13%
Mn 257.610†	38206.3	0.0588	mg/L	0.00071	29.39	mg/kg	0.356	1.21%
Mo 202.031†	25.0	0.00086	mg/L	0.000836	0.4300	mg/kg	0.41787	97.19%
Ni 232.003†	58.7	0.0118	mg/L	0.00169	5.902	mg/kg	0.8462	14.34%
Pb 220.353†	-12.2	0.00301	mg/L	0.002674	1.506	mg/kg	1.3370	88.76%
Sb 206.836†	-8.2	-0.0043	mg/L	0.00285	-2.164	mg/kg	1.4259	65.88%
Se 196.026†	8.8	0.0033	mg/L	0.01083	1.641	mg/kg	5.4159	330.05%
Si 251.611†	154.1	0.2749	mg/L	0.00588	137.5	mg/kg	2.94	2.14%
Sn 189.927†	-19.6	-0.0016	mg/L	0.00359	-0.7824	mg/kg	1.79391	229.29%
Tl 190.801†	12.0	0.0038	mg/L	0.00267	1.887	mg/kg	1.3349	70.73%
V 292.402†	806.2	0.0074	mg/L	0.00017	3.705	mg/kg	0.0851	2.30%
Zn 213.857†	-164.2	0.0037	mg/L	0.00050	1.840	mg/kg	0.2490	13.53%
Ti 334.940†	23441.8	0.0337	mg/L	0.00050	16.83	mg/kg	0.248	1.48%
B 249.772†	22.4	0.0097	mg/L	0.00113	4.834	mg/kg	0.5661	11.71%
Na 589.592†	7415.7	1.454	mg/L	0.0184	726.8	mg/kg	9.20	1.27%
K 766.490†	859.0	0.8363	mg/L	0.06732	418.2	mg/kg	33.66	8.05%
Li 670.784†	185.4	0.00492	mg/L	0.001206	2.458	mg/kg	0.6029	24.53%
Sr 407.771†	671443.6	1.397	mg/L	0.0208	698.7	mg/kg	10.40	1.49%

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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.: 88 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/4/2014 1:03:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	Back Pressure	Flow
All	203.0 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	2674662.8	103.7 mg/L	0.63			0.60%
Y 360.073 R	55804.2	9.517 mg/L	0.1478			1.55%
Ag 328.068†	163208.0	0.9522 mg/L	0.00198	0.9522 mg/L	0.00198	0.21%
QC value within limits for Ag 328.068 Recovery = 95.22%						
Al 308.215†	3793.2	9.471 mg/L	0.1158	9.471 mg/L	0.1158	1.22%
QC value within limits for Al 308.215 Recovery = 94.71%						
As 188.979†	1787.9	1.926 mg/L	0.0069	1.926 mg/L	0.0069	0.36%
QC value within limits for As 188.979 Recovery = 96.29%						
Ba 233.527†	44024.6	0.5281 mg/L	0.00202	0.5281 mg/L	0.00202	0.38%
QC value within limits for Ba 233.527 Recovery = 105.62%						
Be 313.107†	333037.3	0.1950 mg/L	0.00040	0.1950 mg/L	0.00040	0.21%
QC value within limits for Be 313.107 Recovery = 97.52%						
Ca 315.887†	3307250.7	49.18 mg/L	0.055	49.18 mg/L	0.055	0.11%
QC value within limits for Ca 315.887 Recovery = 98.37%						
Cd 214.440†	33909.1	0.4918 mg/L	0.00115	0.4918 mg/L	0.00115	0.23%
QC value within limits for Cd 214.440 Recovery = 98.37%						
Co 228.616†	32449.2	1.044 mg/L	0.0035	1.044 mg/L	0.0035	0.34%
QC value within limits for Co 228.616 Recovery = 104.45%						
Cr 205.560†	24604.5	1.037 mg/L	0.0032	1.037 mg/L	0.0032	0.31%
QC value within limits for Cr 205.560 Recovery = 103.75%						
Cu 324.752†	311645.5	1.900 mg/L	0.0043	1.900 mg/L	0.0043	0.23%
QC value within limits for Cu 324.752 Recovery = 95.02%						
Fe 238.863†	171483.7	9.636 mg/L	0.0079	9.636 mg/L	0.0079	0.08%
QC value within limits for Fe 238.863 Recovery = 96.36%						
Mg 279.077†	65731.7	9.735 mg/L	0.0190	9.735 mg/L	0.0190	0.19%
QC value within limits for Mg 279.077 Recovery = 97.35%						
Mn 257.610†	641390.5	0.9936 mg/L	0.00172	0.9936 mg/L	0.00172	0.17%
QC value within limits for Mn 257.610 Recovery = 99.36%						
Mo 202.031†	5544.1	0.4907 mg/L	0.00113	0.4907 mg/L	0.00113	0.23%
QC value within limits for Mo 202.031 Recovery = 98.15%						
Ni 232.003†	15398.6	2.042 mg/L	0.0075	2.042 mg/L	0.0075	0.37%
QC value within limits for Ni 232.003 Recovery = 102.10%						
Pb 220.353†	1803.0	0.4970 mg/L	0.00350	0.4970 mg/L	0.00350	0.70%
QC value within limits for Pb 220.353 Recovery = 99.40%						
Sb 206.836†	3914.7	1.929 mg/L	0.0043	1.929 mg/L	0.0043	0.22%
QC value within limits for Sb 206.836 Recovery = 96.43%						
Se 196.026†	2090.2	1.928 mg/L	0.0019	1.928 mg/L	0.0019	0.10%
QC value within limits for Se 196.026 Recovery = 96.41%						
Si 251.611†	1058.5	1.945 mg/L	0.0230	1.945 mg/L	0.0230	1.18%
QC value within limits for Si 251.611 Recovery = 97.23%						
Sn 189.927†	8896.8	1.950 mg/L	0.0084	1.950 mg/L	0.0084	0.43%
QC value within limits for Sn 189.927 Recovery = 97.48%						
Tl 190.801†	2861.4	1.984 mg/L	0.0077	1.984 mg/L	0.0077	0.39%
QC value within limits for Tl 190.801 Recovery = 99.20%						
V 292.402†	98659.6	0.9752 mg/L	0.00303	0.9752 mg/L	0.00303	0.31%
QC value within limits for V 292.402 Recovery = 97.52%						
Zn 213.857†	173890.0	2.838 mg/L	0.0032	2.838 mg/L	0.0032	0.11%
QC value within limits for Zn 213.857 Recovery = 94.60%						

Ti 334.940†	718096.5	0.9851 mg/L	0.00175	0.9851 mg/L	0.00175	0.18%
QC value within limits for Ti 334.940 Recovery = 98.51%						
B 249.772†	2200.4	1.792 mg/L	0.0309	1.792 mg/L	0.0309	1.73%
QC value less than the lower limit for B 249.772 Recovery = 89.61%						
Na 589.592†	267282.5	53.52 mg/L	0.176	53.52 mg/L	0.176	0.33%
QC value within limits for Na 589.592 Recovery = 107.03%						
K 766.490†	50036.7	49.40 mg/L	0.316	49.40 mg/L	0.316	0.64%
QC value within limits for K 766.490 Recovery = 98.80%						
Li 670.784†	53919.7	1.544 mg/L	0.0038	1.544 mg/L	0.0038	0.25%
QC value within limits for Li 670.784 Recovery = 102.91%						
Sr 407.771†	507800.2	1.059 mg/L	0.0005	1.059 mg/L	0.0005	0.05%
QC value within limits for Sr 407.771 Recovery = 105.94%						

QC Failed. Retry.

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Sequence No.: 89 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/4/2014 1:07:12 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	202.0 kPa	0.55 L/min

Mean Data: CCV 14J27642

Analyte	**Mean Corrected Intensity**	**Calib. Conc.**	**Calib. Units**	**Std.Dev.**	**Sample Conc.**	**Sample Units**	**Std.Dev.**	**RSD**
Y 360.073	2707283.2	104.9	mg/L	1.31				1.25%
Y 360.073 R	56519.9	9.639	mg/L	0.1559				1.62%
Ag 328.068†	162679.7	0.9492	mg/L	0.00100	0.9492	mg/L	0.00100	0.11%
QC value within limits for Ag 328.068 Recovery = 94.92%								
Al 308.215†	3732.8	9.320	mg/L	0.1091	9.320	mg/L	0.1091	1.17%
QC value within limits for Al 308.215 Recovery = 93.20%								
As 188.979†	1783.5	1.921	mg/L	0.0143	1.921	mg/L	0.0143	0.75%
QC value within limits for As 188.979 Recovery = 96.06%								
Ba 233.527†	43684.7	0.5240	mg/L	0.00478	0.5240	mg/L	0.00478	0.91%
QC value within limits for Ba 233.527 Recovery = 104.81%								
Be 313.107†	331514.5	0.1941	mg/L	0.00022	0.1941	mg/L	0.00022	0.11%
QC value within limits for Be 313.107 Recovery = 97.07%								
Ca 315.887†	3298150.8	49.05	mg/L	0.105	49.05	mg/L	0.105	0.21%
QC value within limits for Ca 315.887 Recovery = 98.10%								
Cd 214.440†	33838.9	0.4908	mg/L	0.00148	0.4908	mg/L	0.00148	0.30%
QC value within limits for Cd 214.440 Recovery = 98.16%								
Co 228.616†	32236.0	1.038	mg/L	0.0100	1.038	mg/L	0.0100	0.96%
QC value within limits for Co 228.616 Recovery = 103.76%								
Cr 205.560†	24438.2	1.030	mg/L	0.0098	1.030	mg/L	0.0098	0.95%
QC value within limits for Cr 205.560 Recovery = 103.05%								
Cu 324.752†	310784.1	1.895	mg/L	0.0029	1.895	mg/L	0.0029	0.15%
QC value within limits for Cu 324.752 Recovery = 94.76%								
Fe 238.863†	171070.3	9.613	mg/L	0.0387	9.613	mg/L	0.0387	0.40%
QC value within limits for Fe 238.863 Recovery = 96.13%								
Mg 279.077†	65595.9	9.715	mg/L	0.0286	9.715	mg/L	0.0286	0.29%
QC value within limits for Mg 279.077 Recovery = 97.15%								
Mn 257.610†	639607.1	0.9908	mg/L	0.00113	0.9908	mg/L	0.00113	0.11%
QC value within limits for Mn 257.610 Recovery = 99.08%								
Mo 202.031†	5511.3	0.4878	mg/L	0.00450	0.4878	mg/L	0.00450	0.92%
QC value within limits for Mo 202.031 Recovery = 97.57%								
Ni 232.003†	15300.2	2.029	mg/L	0.0212	2.029	mg/L	0.0212	1.05%
QC value within limits for Ni 232.003 Recovery = 101.45%								
Pb 220.353†	1783.9	0.4917	mg/L	0.00474	0.4917	mg/L	0.00474	0.96%
QC value within limits for Pb 220.353 Recovery = 98.35%								
Sb 206.836†	3892.4	1.918	mg/L	0.0202	1.918	mg/L	0.0202	1.05%
QC value within limits for Sb 206.836 Recovery = 95.88%								
Se 196.026†	2082.7	1.921	mg/L	0.0213	1.921	mg/L	0.0213	1.11%
QC value within limits for Se 196.026 Recovery = 96.07%								
Si 251.611†	1038.7	1.908	mg/L	0.0391	1.908	mg/L	0.0391	2.05%
QC value within limits for Si 251.611 Recovery = 95.40%								
Sn 189.927†	8838.3	1.937	mg/L	0.0195	1.937	mg/L	0.0195	1.01%

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   QC value within limits for Sn 189.927  Recovery = 96.84%
Tl 190.801†            2844.3       1.972 mg/L        0.0181       1.972 mg/L        0.0181   0.92%
   QC value within limits for Tl 190.801  Recovery = 98.61%
V 292.402†            98253.0      0.9712 mg/L       0.00289      0.9712 mg/L       0.00289   0.30%
   QC value within limits for V 292.402  Recovery = 97.12%
Zn 213.857†          173534.7       2.832 mg/L        0.0093       2.832 mg/L        0.0093   0.33%
   QC value within limits for Zn 213.857  Recovery = 94.41%
Ti 334.940†          715792.0      0.9819 mg/L       0.00099      0.9819 mg/L       0.00099   0.10%
   QC value within limits for Ti 334.940  Recovery = 98.19%
B 249.772†             2210.3       1.800 mg/L        0.0181       1.800 mg/L        0.0181   1.01%
   QC value within limits for B 249.772  Recovery = 90.02%
Na 589.592†          267122.7       53.48 mg/L         0.084       53.48 mg/L         0.084   0.16%
   QC value within limits for Na 589.592  Recovery = 106.97%
K 766.490†            50591.9       49.95 mg/L         0.235       49.95 mg/L         0.235   0.47%
   QC value within limits for K 766.490  Recovery = 99.90%
Li 670.784†           53968.8       1.545 mg/L        0.0033       1.545 mg/L        0.0033   0.21%
   QC value within limits for Li 670.784  Recovery = 103.00%
Sr 407.771†          506978.1       1.058 mg/L        0.0015       1.058 mg/L        0.0015   0.15%
   QC value within limits for Sr 407.771  Recovery = 105.77%
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.: 90 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/4/2014 1:12:08 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	201.0 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	2815705.5	109.1	mg/L	1.06				0.98%
Y 360.073 R	59503.0	10.15	mg/L	0.132				1.30%
Ag 328.068†	490.3	0.00286	mg/L	0.000269	0.00286	mg/L	0.000269	9.42%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-1.5	-0.0038	mg/L	0.01899	-0.0038	mg/L	0.01899	497.87%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.5	0.0027	mg/L	0.00561	0.0027	mg/L	0.00561	211.44%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	19.5	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	17.62%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-47.9	-0.00003	mg/L	0.000034	-0.00003	mg/L	0.000034	119.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1994.0	0.02965	mg/L	0.001581	0.02965	mg/L	0.001581	5.33%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-42.6	-0.0006	mg/L	0.00003	-0.0006	mg/L	0.00003	4.18%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	14.2	0.0005	mg/L	0.00055	0.0005	mg/L	0.00055	120.59%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	20.0	0.0008	mg/L	0.00037	0.0008	mg/L	0.00037	44.12%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	771.2	0.0047	mg/L	0.00061	0.0047	mg/L	0.00061	12.94%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.863†	39.3	0.0022	mg/L	0.00016	0.0022	mg/L	0.00016	7.37%
QC value within limits for Fe 238.863 Recovery = Not calculated								
Mg 279.077†	1.7	0.0003	mg/L	0.00101	0.0003	mg/L	0.00101	403.37%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	166.1	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	10.86%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-0.8	-0.00007	mg/L	0.000117	-0.00007	mg/L	0.000117	164.70%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 232.003†	50.2	0.0066	mg/L	0.00028	0.0066	mg/L	0.00028	4.15%
QC value within limits for Ni 232.003 Recovery = Not calculated								
Pb 220.353†	-16.1	-0.00444	mg/L	0.001102	-0.00444	mg/L	0.001102	24.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-10.1	-0.0049	mg/L	0.00382	-0.0049	mg/L	0.00382	77.31%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-7.4	-0.0068	mg/L	0.01037	-0.0068	mg/L	0.01037	152.58%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	0.1	0.0002	mg/L	0.01061	0.0002	mg/L	0.01061	>999.9%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-1.6	-0.0003	mg/L	0.00178	-0.0003	mg/L	0.00178	509.71%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Tl 190.801†	2.9	0.0020	mg/L	0.00240	0.0020	mg/L	0.00240	120.14%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	15.4	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	53.65%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	149.0	0.0024	mg/L	0.00015	0.0024	mg/L	0.00015	6.06%
QC value within limits for Zn 213.857 Recovery = Not calculated								

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Ti 334.940†              356.9      0.0005 mg/L       0.00003      0.0005 mg/L       0.00003   5.65%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†                22.1      0.0182 mg/L       0.00300      0.0182 mg/L       0.00300  16.46%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†              752.8      0.1507 mg/L       0.01319      0.1507 mg/L       0.01319   8.75%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†               380.3      0.3755 mg/L       0.10348      0.3755 mg/L       0.10348  27.56%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†              -42.3    -0.00121 mg/L      0.002551    -0.00121 mg/L      0.002551 210.83%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†              119.6     0.00025 mg/L      0.000099     0.00025 mg/L      0.000099  39.74%
   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.: 91 **Autosampler Location: 141**
Sample ID: L729563-06 WG752045 **Date Collected: 11/4/2014 1:17:08 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.49 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729563-06 WG752045

Analyte	Back Pressure	Flow
All	201.0 kPa	0.55 L/min

Mean Data: L729563-06 WG752045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2680616.5	103.9	mg/L	1.51				1.45%
Y 360.073 R	56700.3	9.670	mg/L	0.2343				2.42%
Ag 328.068†	383.6	0.00129	mg/L	0.000777	0.6596	mg/kg	0.39653	60.12%
Al 308.215†	4036.2	10.06	mg/L	0.199	5132	mg/kg	101.59	1.98%
As 188.979†	18.5	0.0111	mg/L	0.00829	5.660	mg/kg	4.2311	74.76%
Ba 233.527†	4712.3	0.0561	mg/L	0.00019	28.63	mg/kg	0.099	0.35%
Be 313.107†	1179.7	0.00067	mg/L	0.000011	0.3443	mg/kg	0.00541	1.57%
Ca 315.887†	15931146.3	236.9	mg/L	4.48	120900	mg/kg	2287.36	1.89%
Cd 214.440†	-7.0	-0.0013	mg/L	0.00015	-0.6438	mg/kg	0.07707	11.97%
Co 228.616†	204.5	0.0056	mg/L	0.00004	2.880	mg/kg	0.0195	0.68%
Cr 205.560†	439.8	0.0171	mg/L	0.00025	8.712	mg/kg	0.1257	1.44%
Cu 324.752†	1726.3	0.0083	mg/L	0.00044	4.251	mg/kg	0.2220	5.22%
Fe 238.863†	187199.2	10.52	mg/L	0.201	5365	mg/kg	102.41	1.91%
Mg 279.077†	39803.3	5.882	mg/L	0.1027	3001	mg/kg	52.40	1.75%
Mn 257.610†	132887.4	0.2053	mg/L	0.00369	104.8	mg/kg	1.88	1.80%
Mo 202.031†	21.0	0.00101	mg/L	0.000224	0.5139	mg/kg	0.11446	22.28%
Ni 232.003†	139.0	0.0224	mg/L	0.00333	11.44	mg/kg	1.698	14.84%
Pb 220.353†	4.2	0.00620	mg/L	0.001166	3.161	mg/kg	0.5951	18.83%
Sb 206.836†	5.0	0.0024	mg/L	0.00296	1.211	mg/kg	1.5112	124.83%
Se 196.026†	11.1	0.0096	mg/L	0.01214	4.898	mg/kg	6.1954	126.49%
Si 251.611†	507.2	0.9262	mg/L	0.01112	472.5	mg/kg	5.67	1.20%
Sn 189.927†	-17.7	-0.0006	mg/L	0.00306	-0.3035	mg/kg	1.56236	514.78%
Tl 190.801†	3.8	-0.0011	mg/L	0.00258	-0.5731	mg/kg	1.31813	229.99%
V 292.402†	2524.9	0.0239	mg/L	0.00023	12.21	mg/kg	0.120	0.98%
Zn 213.857†	1530.6	0.0292	mg/L	0.00016	14.88	mg/kg	0.082	0.55%
Ti 334.940†	40956.4	0.0573	mg/L	0.00085	29.24	mg/kg	0.433	1.48%
B 249.772†	58.3	0.0247	mg/L	0.00261	12.62	mg/kg	1.329	10.54%
Na 589.592†	5370.7	1.047	mg/L	0.0149	534.4	mg/kg	7.61	1.43%
K 766.490†	2513.7	2.472	mg/L	0.0389	1261	mg/kg	19.87	1.58%
Li 670.784†	648.2	0.01819	mg/L	0.002396	9.281	mg/kg	1.2226	13.17%
Sr 407.771†	301689.9	0.6261	mg/L	0.00087	319.4	mg/kg	0.44	0.14%

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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.: 92 **Autosampler Location: 142**
Sample ID: L729564-01 WG752045 **Date Collected: 11/4/2014 1:22:19 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.49 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729564-01 WG752045

Analyte	Back Pressure	Flow
All	201.0 kPa	0.55 L/min

Mean Data: L729564-01 WG752045

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2540447.4	98.47	mg/L	2.228				2.26%
Y 360.073 R	56575.8	9.648	mg/L	0.1205				1.25%
Ag 328.068†	315.0	0.00005	mg/L	0.000224	0.02332	mg/kg	0.114374	490.43%
Al 308.215†	2261.0	5.591	mg/L	0.2225	2853	mg/kg	113.52	3.98%
As 188.979†	21.8	0.0112	mg/L	0.00139	5.701	mg/kg	0.7112	12.47%
Ba 233.527†	4751.7	0.0565	mg/L	0.00101	28.85	mg/kg	0.518	1.79%
Be 313.107†	229.8	0.00011	mg/L	0.000005	0.05432	mg/kg	0.002657	4.89%
Ca 315.887†	23629500.1	351.4	mg/L	3.91	179300	mg/kg	1995.24	1.11%
Cd 214.440†	-1.4	-0.0011	mg/L	0.00019	-0.5831	mg/kg	0.09753	16.73%
Co 228.616†	80.9	0.0012	mg/L	0.00061	0.6063	mg/kg	0.31088	51.28%
Cr 205.560†	206.0	0.0067	mg/L	0.00010	3.407	mg/kg	0.0534	1.57%
Cu 324.752†	1378.5	0.0047	mg/L	0.00036	2.390	mg/kg	0.1860	7.78%
Fe 238.863†	98269.9	5.516	mg/L	0.0299	2814	mg/kg	15.23	0.54%
Mg 279.077†	23345.2	3.440	mg/L	0.0173	1755	mg/kg	8.83	0.50%
Mn 257.610†	59445.4	0.0916	mg/L	0.00046	46.71	mg/kg	0.237	0.51%
Mo 202.031†	22.2	0.00029	mg/L	0.000320	0.1456	mg/kg	0.16332	112.20%
Ni 232.003†	43.5	0.0109	mg/L	0.00455	5.568	mg/kg	2.3224	41.71%
Pb 220.353†	-3.3	0.00714	mg/L	0.000175	3.641	mg/kg	0.0894	2.46%
Sb 206.836†	0.8	0.0001	mg/L	0.00459	0.0268	mg/kg	2.34169	>999.9%
Se 196.026†	12.5	0.0059	mg/L	0.00936	2.991	mg/kg	4.7780	159.74%
Si 251.611†	1823.6	3.341	mg/L	0.1204	1705	mg/kg	61.43	3.60%
Sn 189.927†	-21.8	-0.0012	mg/L	0.00150	-0.6333	mg/kg	0.76419	120.67%
Tl 190.801†	11.2	0.0020	mg/L	0.00317	1.028	mg/kg	1.6155	157.19%
V 292.402†	1087.0	0.0100	mg/L	0.00027	5.093	mg/kg	0.1375	2.70%
Zn 213.857†	265.2	0.0122	mg/L	0.00033	6.225	mg/kg	0.1700	2.73%
Ti 334.940†	57221.7	0.0804	mg/L	0.00099	41.01	mg/kg	0.506	1.23%
B 249.772†	35.2	0.0162	mg/L	0.00114	8.282	mg/kg	0.5801	7.01%
Na 589.592†	7940.3	1.550	mg/L	0.0054	791.0	mg/kg	2.75	0.35%
K 766.490†	1685.5	1.649	mg/L	0.0714	841.5	mg/kg	36.45	4.33%
Li 670.784†	455.4	0.01254	mg/L	0.001845	6.398	mg/kg	0.9415	14.72%
Sr 407.771†	869495.9	1.810	mg/L	0.0306	923.4	mg/kg	15.62	1.69%

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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.: 93 **Autosampler Location: 143**
Sample ID: L729564-02 WG752045 **Date Collected: 11/4/2014 1:27:36 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.49 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729564-02 WG752045

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: L729564-02 WG752045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2528746.0	98.02	mg/L	2.215				2.26%
Y 360.073 R	55539.4	9.472	mg/L	0.1634				1.72%
Ag 328.068†	406.5	0.00073	mg/L	0.000792	0.3716	mg/kg	0.40431	108.81%
Al 308.215†	487.7	1.161	mg/L	0.0677	592.3	mg/kg	34.54	5.83%
As 188.979†	8.4	-0.0013	mg/L	0.00131	-0.6723	mg/kg	0.67007	99.66%
Ba 233.527†	2666.1	0.0316	mg/L	0.00053	16.13	mg/kg	0.272	1.69%
Be 313.107†	-58.8	-0.00006	mg/L	0.000008	-0.03045	mg/kg	0.003839	12.61%
Ca 315.887†	20386628.1	303.1	mg/L	2.94	154700	mg/kg	1499.98	0.97%
Cd 214.440†	-1.2	-0.0009	mg/L	0.00015	-0.4352	mg/kg	0.07765	17.84%
Co 228.616†	24.5	-0.0004	mg/L	0.00028	-0.2283	mg/kg	0.14088	61.72%
Cr 205.560†	114.2	0.0031	mg/L	0.00032	1.599	mg/kg	0.1625	10.16%
Cu 324.752†	717.0	0.0011	mg/L	0.00073	0.5365	mg/kg	0.37482	69.86%
Fe 238.863†	37798.1	2.118	mg/L	0.0183	1081	mg/kg	9.32	0.86%
Mg 279.077†	10013.2	1.468	mg/L	0.0282	749.2	mg/kg	14.41	1.92%
Mn 257.610†	40929.2	0.0630	mg/L	0.00054	32.16	mg/kg	0.273	0.85%
Mo 202.031†	19.9	0.00021	mg/L	0.000050	0.1056	mg/kg	0.02574	24.37%
Ni 232.003†	40.1	0.0095	mg/L	0.00130	4.857	mg/kg	0.6657	13.71%
Pb 220.353†	-19.2	0.00169	mg/L	0.002241	0.8601	mg/kg	1.14340	132.94%
Sb 206.836†	6.6	0.0029	mg/L	0.00403	1.501	mg/kg	2.0538	136.85%
Se 196.026†	8.6	0.0017	mg/L	0.00257	0.8549	mg/kg	1.30909	153.13%
Si 251.611†	139.4	0.2469	mg/L	0.02058	126.0	mg/kg	10.50	8.33%
Sn 189.927†	-12.9	-0.0001	mg/L	0.00065	-0.0572	mg/kg	0.33034	577.92%
Tl 190.801†	13.6	0.0045	mg/L	0.00532	2.281	mg/kg	2.7134	118.96%
V 292.402†	363.1	0.0031	mg/L	0.00017	1.597	mg/kg	0.0877	5.49%
Zn 213.857†	-551.9	-0.0018	mg/L	0.00043	-0.8975	mg/kg	0.22050	24.57%
Ti 334.940†	14257.9	0.0212	mg/L	0.00028	10.84	mg/kg	0.143	1.32%
B 249.772†	13.2	0.0056	mg/L	0.00237	2.851	mg/kg	1.2103	42.44%
Na 589.592†	6214.7	1.211	mg/L	0.0487	617.8	mg/kg	24.84	4.02%
K 766.490†	366.7	0.3493	mg/L	0.01334	178.2	mg/kg	6.81	3.82%
Li 670.784†	214.5	0.00572	mg/L	0.001093	2.921	mg/kg	0.5576	19.09%
Sr 407.771†	841286.9	1.752	mg/L	0.0921	893.7	mg/kg	47.01	5.26%

==========

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.: 94 **Autosampler Location: 144**
Sample ID: L729564-04 WG752045 **Date Collected: 11/4/2014 1:32:53 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: L729564-04 WG752045

Analyte	Back Pressure	Flow
All	202.0 kPa	0.55 L/min

Mean Data: L729564-04 WG752045

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2574619.6	99.80	mg/L	1.042				1.04%
Y 360.073 R	53513.1	9.126	mg/L	0.0702				0.77%
Ag 328.068†	277.1	0.00050	mg/L	0.000137	0.2434	mg/kg	0.06714	27.59%
Al 308.215†	3355.7	8.338	mg/L	0.4755	4087	mg/kg	233.09	5.70%
As 188.979†	18.6	0.0085	mg/L	0.01067	4.151	mg/kg	5.2312	126.01%
Ba 233.527†	10108.5	0.1207	mg/L	0.00697	59.17	mg/kg	3.415	5.77%
Be 313.107†	1121.9	0.00064	mg/L	0.000047	0.3130	mg/kg	0.02325	7.43%
Ca 315.887†	21293721.5	316.6	mg/L	24.32	155200	mg/kg	11919.21	7.68%
Cd 214.440†	37.3	-0.0013	mg/L	0.00011	-0.6449	mg/kg	0.05256	8.15%
Co 228.616†	210.3	0.0055	mg/L	0.00038	2.686	mg/kg	0.1839	6.85%
Cr 205.560†	449.5	0.0170	mg/L	0.00083	8.322	mg/kg	0.4085	4.91%
Cu 324.752†	1548.9	0.0067	mg/L	0.00007	3.296	mg/kg	0.0342	1.04%
Fe 238.863†	297140.9	16.69	mg/L	1.175	8183	mg/kg	575.79	7.04%
Mg 279.077†	48847.6	7.216	mg/L	0.4989	3537	mg/kg	244.54	6.91%
Mn 257.610†	202953.5	0.3138	mg/L	0.02142	153.8	mg/kg	10.50	6.83%
Mo 202.031†	26.6	0.00133	mg/L	0.000847	0.6536	mg/kg	0.41506	63.51%
Ni 232.003†	133.6	0.0231	mg/L	0.00069	11.34	mg/kg	0.337	2.97%
Pb 220.353†	15.6	0.01014	mg/L	0.001043	4.969	mg/kg	0.5112	10.29%
Sb 206.836†	-5.7	-0.0027	mg/L	0.00346	-1.336	mg/kg	1.6956	126.88%
Se 196.026†	6.7	0.0063	mg/L	0.00654	3.104	mg/kg	3.2037	103.20%
Si 251.611†	1229.7	2.253	mg/L	0.1162	1104	mg/kg	56.95	5.16%
Sn 189.927†	-19.0	0.0006	mg/L	0.00192	0.2997	mg/kg	0.94157	314.21%
Tl 190.801†	7.1	0.0001	mg/L	0.00013	0.0594	mg/kg	0.06366	107.22%
V 292.402†	3907.3	0.0371	mg/L	0.00216	18.17	mg/kg	1.057	5.82%
Zn 213.857†	1687.1	0.0328	mg/L	0.00221	16.09	mg/kg	1.084	6.74%
Ti 334.940†	87901.6	0.1221	mg/L	0.00798	59.87	mg/kg	3.912	6.53%
B 249.772†	66.4	0.0179	mg/L	0.00233	8.759	mg/kg	1.1423	13.04%
Na 589.592†	14425.9	2.851	mg/L	0.1210	1398	mg/kg	59.31	4.24%
K 766.490†	1901.5	1.864	mg/L	0.1285	913.8	mg/kg	63.01	6.90%
Li 670.784†	537.4	0.01491	mg/L	0.001829	7.307	mg/kg	0.8964	12.27%
Sr 407.771†	427731.5	0.8880	mg/L	0.04284	435.3	mg/kg	21.00	4.82%

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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.: 95 **Autosampler Location: 145**
Sample ID: L729564-05 WG752045 **Date Collected: 11/4/2014 1:38:04 PM**
Analyst: 388 **Data Type: Original**
Initial Sample Wt: 0.48 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 50 mL**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: L729564-05 WG752045

Analyte	Back Pressure	Flow
All	203.0 kPa	0.55 L/min

Mean Data: L729564-05 WG752045

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2607018.7	101.1	mg/L	1.14				1.13%
Y 360.073 R	54578.5	9.308	mg/L	0.0697				0.75%
Ag 328.068†	288.3	0.00109	mg/L	0.000277	0.5660	mg/kg	0.14403	25.45%
Al 308.215†	2415.2	6.009	mg/L	0.1506	3130	mg/kg	78.42	2.51%
As 188.979†	12.7	0.0066	mg/L	0.00434	3.419	mg/kg	2.2606	66.11%
Ba 233.527†	10346.2	0.1238	mg/L	0.00617	64.48	mg/kg	3.212	4.98%
Be 313.107†	965.1	0.00055	mg/L	0.000038	0.2890	mg/kg	0.01994	6.90%
Ca 315.887†	12861150.0	191.2	mg/L	11.76	99610	mg/kg	6125.36	6.15%
Cd 214.440†	13.7	-0.0011	mg/L	0.00008	-0.5535	mg/kg	0.04417	7.98%
Co 228.616†	209.6	0.0060	mg/L	0.00046	3.108	mg/kg	0.2412	7.76%
Cr 205.560†	332.6	0.0128	mg/L	0.00053	6.665	mg/kg	0.2743	4.12%
Cu 324.752†	1338.3	0.0066	mg/L	0.00031	3.448	mg/kg	0.1631	4.73%
Fe 238.863†	216057.5	12.14	mg/L	0.869	6322	mg/kg	452.78	7.16%
Mg 279.077†	38364.9	5.671	mg/L	0.3871	2954	mg/kg	201.62	6.83%
Mn 257.610†	133795.7	0.2068	mg/L	0.01408	107.7	mg/kg	7.33	6.81%
Mo 202.031†	18.9	0.00114	mg/L	0.000821	0.5949	mg/kg	0.42751	71.86%
Ni 232.003†	135.2	0.0213	mg/L	0.00269	11.12	mg/kg	1.399	12.58%
Pb 220.353†	12.8	0.00684	mg/L	0.001880	3.562	mg/kg	0.9793	27.49%
Sb 206.836†	-6.3	-0.0030	mg/L	0.00217	-1.548	mg/kg	1.1311	73.07%
Se 196.026†	2.4	0.0033	mg/L	0.00790	1.702	mg/kg	4.1155	241.79%
Si 251.611†	1634.5	3.000	mg/L	0.0823	1563	mg/kg	42.85	2.74%
Sn 189.927†	-31.1	-0.0036	mg/L	0.00225	-1.898	mg/kg	1.1693	61.61%
Tl 190.801†	5.7	0.0012	mg/L	0.00423	0.6016	mg/kg	2.20359	366.28%
V 292.402†	2884.9	0.0274	mg/L	0.00126	14.28	mg/kg	0.656	4.59%
Zn 213.857†	1193.3	0.0223	mg/L	0.00155	11.64	mg/kg	0.807	6.94%
Ti 334.940†	47930.4	0.0666	mg/L	0.00477	34.70	mg/kg	2.484	7.16%
B 249.772†	50.3	0.0147	mg/L	0.00362	7.669	mg/kg	1.8870	24.60%
Na 589.592†	7131.1	1.405	mg/L	0.0080	731.8	mg/kg	4.16	0.57%
K 766.490†	1560.9	1.533	mg/L	0.0607	798.5	mg/kg	31.61	3.96%
Li 670.784†	554.3	0.01557	mg/L	0.000717	8.110	mg/kg	0.3732	4.60%
Sr 407.771†	281266.4	0.5842	mg/L	0.00097	304.3	mg/kg	0.51	0.17%

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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.: 96 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/4/2014 1:43:13 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	202.0 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	2612276.8	101.3 mg/L	0.70			0.69%
Y 360.073 R	54125.7	9.231 mg/L	0.0850			0.92%
Ag 328.068†	163541.0	0.9542 mg/L	0.00178	0.9542 mg/L	0.00178	0.19%
QC value within limits for Ag 328.068 Recovery = 95.42%						
Al 308.215†	3745.3	9.352 mg/L	0.1378	9.352 mg/L	0.1378	1.47%
QC value within limits for Al 308.215 Recovery = 93.52%						
As 188.979†	1776.2	1.913 mg/L	0.0205	1.913 mg/L	0.0205	1.07%
QC value within limits for As 188.979 Recovery = 95.67%						
Ba 233.527†	43674.4	0.5239 mg/L	0.00440	0.5239 mg/L	0.00440	0.84%
QC value within limits for Ba 233.527 Recovery = 104.78%						
Be 313.107†	332947.6	0.1950 mg/L	0.00020	0.1950 mg/L	0.00020	0.10%
QC value within limits for Be 313.107 Recovery = 97.49%						
Ca 315.887†	3299801.4	49.07 mg/L	0.029	49.07 mg/L	0.029	0.06%
QC value within limits for Ca 315.887 Recovery = 98.15%						
Cd 214.440†	33771.3	0.4898 mg/L	0.00092	0.4898 mg/L	0.00092	0.19%
QC value within limits for Cd 214.440 Recovery = 97.96%						
Co 228.616†	32193.2	1.036 mg/L	0.0084	1.036 mg/L	0.0084	0.81%
QC value within limits for Co 228.616 Recovery = 103.62%						
Cr 205.560†	24464.6	1.032 mg/L	0.0094	1.032 mg/L	0.0094	0.91%
QC value within limits for Cr 205.560 Recovery = 103.16%						
Cu 324.752†	312158.8	1.904 mg/L	0.0017	1.904 mg/L	0.0017	0.09%
QC value within limits for Cu 324.752 Recovery = 95.18%						
Fe 238.863†	171915.8	9.661 mg/L	0.0208	9.661 mg/L	0.0208	0.22%
QC value within limits for Fe 238.863 Recovery = 96.61%						
Mg 279.077†	65575.0	9.712 mg/L	0.0205	9.712 mg/L	0.0205	0.21%
QC value within limits for Mg 279.077 Recovery = 97.12%						
Mn 257.610†	641028.6	0.9930 mg/L	0.00057	0.9930 mg/L	0.00057	0.06%
QC value within limits for Mn 257.610 Recovery = 99.30%						
Mo 202.031†	5510.8	0.4878 mg/L	0.00546	0.4878 mg/L	0.00546	1.12%
QC value within limits for Mo 202.031 Recovery = 97.56%						
Ni 232.003†	15286.9	2.027 mg/L	0.0177	2.027 mg/L	0.0177	0.87%
QC value within limits for Ni 232.003 Recovery = 101.36%						
Pb 220.353†	1795.5	0.4949 mg/L	0.00487	0.4949 mg/L	0.00487	0.98%
QC value within limits for Pb 220.353 Recovery = 98.98%						
Sb 206.836†	3895.1	1.919 mg/L	0.0156	1.919 mg/L	0.0156	0.82%
QC value within limits for Sb 206.836 Recovery = 95.95%						
Se 196.026†	2067.5	1.907 mg/L	0.0192	1.907 mg/L	0.0192	1.01%
QC value within limits for Se 196.026 Recovery = 95.36%						
Si 251.611†	1054.9	1.938 mg/L	0.0361	1.938 mg/L	0.0361	1.87%
QC value within limits for Si 251.611 Recovery = 96.90%						
Sn 189.927†	8842.3	1.938 mg/L	0.0218	1.938 mg/L	0.0218	1.12%
QC value within limits for Sn 189.927 Recovery = 96.88%						
Tl 190.801†	2856.7	1.981 mg/L	0.0155	1.981 mg/L	0.0155	0.78%
QC value within limits for Tl 190.801 Recovery = 99.03%						
V 292.402†	98507.6	0.9737 mg/L	0.00195	0.9737 mg/L	0.00195	0.20%
QC value within limits for V 292.402 Recovery = 97.37%						
Zn 213.857†	174140.7	2.842 mg/L	0.0102	2.842 mg/L	0.0102	0.36%
QC value within limits for Zn 213.857 Recovery = 94.74%						

Ti 334.940†	718618.1	0.9858 mg/L	0.00125	0.9858 mg/L	0.00125	0.13%
QC value within limits for Ti 334.940 Recovery = 98.58%						
B 249.772†	2169.9	1.767 mg/L	0.0327	1.767 mg/L	0.0327	1.85%
QC value less than the lower limit for B 249.772 Recovery = 88.35%						
Na 589.592†	268963.6	53.85 mg/L	0.210	53.85 mg/L	0.210	0.39%
QC value within limits for Na 589.592 Recovery = 107.71%						
K 766.490†	50404.7	49.76 mg/L	0.310	49.76 mg/L	0.310	0.62%
QC value within limits for K 766.490 Recovery = 99.53%						
Li 670.784†	54301.6	1.555 mg/L	0.0017	1.555 mg/L	0.0017	0.11%
QC value within limits for Li 670.784 Recovery = 103.64%						
Sr 407.771†	510450.8	1.065 mg/L	0.0030	1.065 mg/L	0.0030	0.28%
QC value within limits for Sr 407.771 Recovery = 106.50%						

QC Failed. Retry.

==========

Sequence No.: 97 **Autosampler Location: 3**
Sample ID: CCV 14J27642 **Date Collected: 11/4/2014 1:46:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 90 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV 14J27642

Analyte	**Back Pressure**	**Flow**
All	202.0 kPa	0.55 L/min

User canceled analysis.

==========

Analysis Begun

Start Time: 11/4/2014 1:49:02 PM **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.: 1 **Autosampler Location: 16**
Sample ID: ICV 14J27639 **Date Collected: 11/4/2014 1:49:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

==========

Analysis Begun

Start Time: 11/4/2014 1:51:09 PM **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.: 94 **Autosampler Location: 2**
Sample ID: CCB **Date Collected: 11/4/2014 1:51:10 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	202.0 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	2651831.0	102.8	mg/L	0.64				0.62%
Y 360.073 R	55844.4	9.524	mg/L	0.0250				0.26%
Ag 328.068†	397.5	0.00231	mg/L	0.000182	0.00231	mg/L	0.000182	7.88%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	8.3	0.0208	mg/L	0.00717	0.0208	mg/L	0.00717	34.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-5.3	-0.0057	mg/L	0.00644	-0.0057	mg/L	0.00644	113.02%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	16.5	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	16.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-59.0	-0.00003	mg/L	0.000028	-0.00003	mg/L	0.000028	82.15%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	821.8	0.01222	mg/L	0.002641	0.01222	mg/L	0.002641	21.61%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440†	-36.5	-0.0005	mg/L	0.00017	-0.0005	mg/L	0.00017	32.37%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	12.9	0.0004	mg/L	0.00025	0.0004	mg/L	0.00025	60.07%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	18.3	0.0008	mg/L	0.00024	0.0008	mg/L	0.00024	30.83%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	670.3	0.0041	mg/L	0.00035	0.0041	mg/L	0.00035	8.56%

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   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.863†              17.5      0.0010 mg/L       0.00044      0.0010 mg/L       0.00044  45.19%
   QC value within limits for Fe 238.863  Recovery = Not calculated
Mg 279.077†              -8.2     -0.0012 mg/L       0.00203     -0.0012 mg/L       0.00203 165.73%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             118.7      0.0002 mg/L       0.00002      0.0002 mg/L       0.00002   9.67%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               2.7     0.00024 mg/L      0.000334     0.00024 mg/L      0.000334 138.29%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 232.003†              26.6      0.0035 mg/L       0.00098      0.0035 mg/L       0.00098  27.66%
   QC value within limits for Ni 232.003  Recovery = Not calculated
Pb 220.353†             -15.7    -0.00433 mg/L      0.001089    -0.00433 mg/L      0.001089  25.17%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -4.9     -0.0024 mg/L       0.00306     -0.0024 mg/L       0.00306 127.58%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -0.4     -0.0004 mg/L       0.00413     -0.0004 mg/L       0.00413 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               2.3      0.0042 mg/L       0.00392      0.0042 mg/L       0.00392  92.80%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               4.0      0.0009 mg/L       0.00019      0.0009 mg/L       0.00019  21.68%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Tl 190.801†               0.6      0.0004 mg/L       0.00200      0.0004 mg/L       0.00200 488.53%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†              -50.0     -0.0005 mg/L       0.00102     -0.0005 mg/L       0.00102 206.92%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             129.8      0.0021 mg/L       0.00009      0.0021 mg/L       0.00009   4.18%
   QC value within limits for Zn 213.857  Recovery = Not calculated
Ti 334.940†             226.6      0.0003 mg/L       0.00013      0.0003 mg/L       0.00013  40.29%
   QC value within limits for Ti 334.940  Recovery = Not calculated
B 249.772†               18.9      0.0156 mg/L       0.00255      0.0156 mg/L       0.00255  16.35%
   QC value within limits for B 249.772  Recovery = Not calculated
Na 589.592†             597.0      0.1195 mg/L       0.01210      0.1195 mg/L       0.01210  10.12%
   QC value within limits for Na 589.592  Recovery = Not calculated
K 766.490†              336.0      0.3317 mg/L       0.03716      0.3317 mg/L       0.03716  11.20%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 670.784†              64.8     0.00186 mg/L      0.002035     0.00186 mg/L      0.002035 109.65%
   QC value within limits for Li 670.784  Recovery = Not calculated
Sr 407.771†              46.2     0.00010 mg/L      0.000052     0.00010 mg/L      0.000052  54.07%
   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.: 95 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/4/2014 1:56:10 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	2663315.2	103.2 mg/L	0.56			0.55%
Y 360.073 R	56273.0	9.597 mg/L	0.1045			1.09%
Ag 328.068†	2053.8	0.01198 mg/L	0.000378	0.01198 mg/L	0.000378	3.15%
QC value within limits for Ag 328.068 Recovery = 119.79%						
Al 308.215†	40.6	0.1015 mg/L	0.00776	0.1015 mg/L	0.00776	7.65%
QC value within limits for Al 308.215 Recovery = 101.45%						
As 188.979†	15.2	0.0163 mg/L	0.00397	0.0163 mg/L	0.00397	24.31%
QC value within limits for As 188.979 Recovery = 81.63%						
Ba 233.527†	441.8	0.0053 mg/L	0.00009	0.0053 mg/L	0.00009	1.61%
QC value within limits for Ba 233.527 Recovery = 105.99%						
Be 313.107†	3118.4	0.00183 mg/L	0.000051	0.00183 mg/L	0.000051	2.77%
QC value within limits for Be 313.107 Recovery = 91.31%						
Ca 315.887†	32752.2	0.4871 mg/L	0.00626	0.4871 mg/L	0.00626	1.28%
QC value within limits for Ca 315.887 Recovery = 97.41%						
Cd 214.440†	311.8	0.0045 mg/L	0.00006	0.0045 mg/L	0.00006	1.27%
QC value within limits for Cd 214.440 Recovery = 90.41%						
Co 228.616†	319.3	0.0103 mg/L	0.00050	0.0103 mg/L	0.00050	4.85%
QC value within limits for Co 228.616 Recovery = 102.77%						
Cr 205.560†	258.8	0.0109 mg/L	0.00039	0.0109 mg/L	0.00039	3.54%
QC value within limits for Cr 205.560 Recovery = 109.11%						
Cu 324.752†	3391.4	0.0207 mg/L	0.00069	0.0207 mg/L	0.00069	3.36%
QC value within limits for Cu 324.752 Recovery = 103.40%						
Fe 238.863†	1870.4	0.1051 mg/L	0.00090	0.1051 mg/L	0.00090	0.86%
QC value within limits for Fe 238.863 Recovery = 105.10%						
Mg 279.077†	689.3	0.1021 mg/L	0.00090	0.1021 mg/L	0.00090	0.88%
QC value within limits for Mg 279.077 Recovery = 102.08%						
Mn 257.610†	6396.6	0.0099 mg/L	0.00012	0.0099 mg/L	0.00012	1.25%
QC value within limits for Mn 257.610 Recovery = 99.09%						
Mo 202.031†	52.3	0.00463 mg/L	0.000299	0.00463 mg/L	0.000299	6.45%
QC value within limits for Mo 202.031 Recovery = 92.62%						
Ni 232.003†	163.4	0.0217 mg/L	0.00119	0.0217 mg/L	0.00119	5.48%
QC value within limits for Ni 232.003 Recovery = 108.37%						
Pb 220.353†	5.8	0.00162 mg/L	0.000122	0.00162 mg/L	0.000122	7.55%
QC value less than the lower limit for Pb 220.353 Recovery = 32.32%						
Sb 206.836†	30.2	0.0149 mg/L	0.00483	0.0149 mg/L	0.00483	32.46%
QC value within limits for Sb 206.836 Recovery = 74.44%						
Se 196.026†	12.8	0.0118 mg/L	0.00415	0.0118 mg/L	0.00415	35.10%
QC value within limits for Se 196.026 Recovery = 59.08%						
Si 251.611†	94.6	0.1738 mg/L	0.01369	0.1738 mg/L	0.01369	7.88%
QC value within limits for Si 251.611 Recovery = 86.89%						
Sn 189.927†	77.9	0.0171 mg/L	0.00152	0.0171 mg/L	0.00152	8.89%
QC value within limits for Sn 189.927 Recovery = 85.35%						
Tl 190.801†	29.2	0.0202 mg/L	0.00473	0.0202 mg/L	0.00473	23.41%
QC value within limits for Tl 190.801 Recovery = 101.07%						
V 292.402†	1007.6	0.0100 mg/L	0.00045	0.0100 mg/L	0.00045	4.53%
QC value within limits for V 292.402 Recovery = 99.59%						
Zn 213.857†	1834.7	0.0299 mg/L	0.00038	0.0299 mg/L	0.00038	1.27%
QC value within limits for Zn 213.857 Recovery = 99.81%						

Ti 334.940†	7412.9	0.0102 mg/L	0.00005	0.0102 mg/L	0.00005	0.46%
QC value within limits for Ti 334.940 Recovery = 101.69%						
B 249.772†	213.4	0.1756 mg/L	0.00714	0.1756 mg/L	0.00714	4.07%
QC value within limits for B 249.772 Recovery = 87.81%						
Na 589.592†	2946.5	0.5900 mg/L	0.01770	0.5900 mg/L	0.01770	3.00%
QC value within limits for Na 589.592 Recovery = 117.99%						
K 766.490†	614.6	0.6068 mg/L	0.04992	0.6068 mg/L	0.04992	8.23%
QC value within limits for K 766.490 Recovery = 121.35%						
Li 670.784†	569.1	0.01629 mg/L	0.001063	0.01629 mg/L	0.001063	6.52%
QC value within limits for Li 670.784 Recovery = 108.62%						
Sr 407.771†	4940.7	0.01031 mg/L	0.000081	0.01031 mg/L	0.000081	0.79%
QC value within limits for Sr 407.771 Recovery = 103.08%						

QC Failed. Retry.

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Sequence No.: 96 **Autosampler Location: 1**
Sample ID: CCVLL 14J27641 **Date Collected: 11/4/2014 1:59:37 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	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	2640175.9	102.3	mg/L	2.09				2.04%
Y 360.073 R	56945.8	9.712	mg/L	0.0230				0.24%
Ag 328.068†	2017.1	0.01177	mg/L	0.000595	0.01177	mg/L	0.000595	5.05%
QC value within limits for Ag 328.068 Recovery = 117.66%								
Al 308.215†	41.2	0.1030	mg/L	0.01394	0.1030	mg/L	0.01394	13.53%
QC value within limits for Al 308.215 Recovery = 103.02%								
As 188.979†	13.6	0.0146	mg/L	0.00133	0.0146	mg/L	0.00133	9.10%
QC value within limits for As 188.979 Recovery = 73.16%								
Ba 233.527†	440.2	0.0053	mg/L	0.00017	0.0053	mg/L	0.00017	3.24%
QC value within limits for Ba 233.527 Recovery = 105.62%								
Be 313.107†	3051.0	0.00179	mg/L	0.000040	0.00179	mg/L	0.000040	2.24%
QC value within limits for Be 313.107 Recovery = 89.34%								
Ca 315.887†	31844.5	0.4736	mg/L	0.00345	0.4736	mg/L	0.00345	0.73%
QC value within limits for Ca 315.887 Recovery = 94.72%								
Cd 214.440†	319.3	0.0046	mg/L	0.00026	0.0046	mg/L	0.00026	5.68%
QC value within limits for Cd 214.440 Recovery = 92.60%								
Co 228.616†	323.0	0.0104	mg/L	0.00039	0.0104	mg/L	0.00039	3.78%
QC value within limits for Co 228.616 Recovery = 103.97%								
Cr 205.560†	257.8	0.0109	mg/L	0.00028	0.0109	mg/L	0.00028	2.61%
QC value within limits for Cr 205.560 Recovery = 108.70%								
Cu 324.752†	3305.8	0.0202	mg/L	0.00109	0.0202	mg/L	0.00109	5.39%
QC value within limits for Cu 324.752 Recovery = 100.80%								
Fe 238.863†	1879.0	0.1056	mg/L	0.00247	0.1056	mg/L	0.00247	2.34%
QC value within limits for Fe 238.863 Recovery = 105.59%								
Mg 279.077†	689.7	0.1021	mg/L	0.00378	0.1021	mg/L	0.00378	3.70%
QC value within limits for Mg 279.077 Recovery = 102.15%								
Mn 257.610†	6342.5	0.0098	mg/L	0.00027	0.0098	mg/L	0.00027	2.76%
QC value within limits for Mn 257.610 Recovery = 98.25%								
Mo 202.031†	52.6	0.00466	mg/L	0.000223	0.00466	mg/L	0.000223	4.78%
QC value within limits for Mo 202.031 Recovery = 93.20%								
Ni 232.003†	144.9	0.0192	mg/L	0.00189	0.0192	mg/L	0.00189	9.86%
QC value within limits for Ni 232.003 Recovery = 96.08%								
Pb 220.353†	-0.2	-0.00005	mg/L	0.001992	-0.00005	mg/L	0.001992	>999.9%
QC value less than the lower limit for Pb 220.353 Recovery = -0.95%								
Sb 206.836†	37.3	0.0184	mg/L	0.00065	0.0184	mg/L	0.00065	3.52%
QC value within limits for Sb 206.836 Recovery = 91.80%								
Se 196.026†	10.4	0.0096	mg/L	0.00584	0.0096	mg/L	0.00584	60.95%
QC value less than the lower limit for Se 196.026 Recovery = 47.94%								
Si 251.611†	94.1	0.1729	mg/L	0.00752	0.1729	mg/L	0.00752	4.35%
QC value within limits for Si 251.611 Recovery = 86.47%								
Sn 189.927†	85.7	0.0188	mg/L	0.00217	0.0188	mg/L	0.00217	11.53%

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   QC value within limits for Sn 189.927  Recovery = 93.95%
Tl 190.801†              29.4      0.0204 mg/L       0.00071      0.0204 mg/L       0.00071   3.49%
   QC value within limits for Tl 190.801  Recovery = 101.84%
V 292.402†             1014.5      0.0100 mg/L       0.00008      0.0100 mg/L       0.00008   0.75%
   QC value within limits for V 292.402  Recovery = 100.27%
Zn 213.857†            1837.3      0.0300 mg/L       0.00041      0.0300 mg/L       0.00041   1.38%
   QC value within limits for Zn 213.857  Recovery = 99.95%
Ti 334.940†            7409.6      0.0102 mg/L       0.00027      0.0102 mg/L       0.00027   2.70%
   QC value within limits for Ti 334.940  Recovery = 101.64%
B 249.772†              214.6      0.1766 mg/L       0.00179      0.1766 mg/L       0.00179   1.01%
   QC value within limits for B 249.772  Recovery = 88.32%
Na 589.592†            2810.0      0.5626 mg/L       0.02594      0.5626 mg/L       0.02594   4.61%
   QC value within limits for Na 589.592  Recovery = 112.52%
K 766.490†              562.3      0.5552 mg/L       0.01541      0.5552 mg/L       0.01541   2.78%
   QC value within limits for K 766.490  Recovery = 111.03%
Li 670.784†             533.6     0.01528 mg/L      0.001213     0.01528 mg/L      0.001213   7.94%
   QC value within limits for Li 670.784  Recovery = 101.84%
Sr 407.771†            4840.5     0.01010 mg/L      0.000045     0.01010 mg/L      0.000045   0.45%
   QC value within limits for Sr 407.771  Recovery = 100.99%
QC Failed.  Stop the analysis.
```

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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.	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%

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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.: 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	Calib. Conc.	Calib. Units	Std.Dev.	Sample 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: L729564

Volatile TPH by Method 8015D/GRO
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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

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

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750792**
Analysis Date:	10/30/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729564-03		

Workgroup: **WG750792**
Description: **TPH Low Fraction by Method 8015D/GRO (GW)**

Sample Name	Collect Date	Analysis Date
L729564-03 1x	10/23/2014	10/30/2014

Parameters in bold text are reported in this SDG

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

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750810**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG750810**
Description: **TPH Low Fraction - GRO by Method 8015D/GRO (SS)**

Sample Name	Collect Date	Analysis Date
L729564-01 25x	10/23/2014	10/31/2014
L729564-02 31.25x	10/23/2014	10/31/2014
L729564-04 25.25x	10/23/2014	10/31/2014
L729564-05 19.25x	10/23/2014	10/31/2014

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750792**
Analysis Date:	10/30/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729564-03		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC7	LCS WG750792	LCS WG750792	1030_04.D	10/30/2014	9:12 AM
VOCGC7	LCSD WG750792	LCSD WG750792	1030_05.D	10/30/2014	9:37 AM
VOCGC7	Blank WG750792	Blank WG750792	1030_09.D	10/30/2014	11:25 AM
VOCGC7	MS WG750792	MS WG750792	1030_17.D	10/30/2014	2:58 PM
VOCGC7	MSD WG750792	MSD WG750792	1030_18.D	10/30/2014	3:23 PM
VOCGC7	TU904-TRIPBLANK06-NT01	L729564-03	1030_20.D	10/30/2014	4:25 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750810**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC10	LCS WG750810	LCS WG750810	1030_37.D	10/30/2014	10:57 PM
VOCGC10	LCSD WG750810	LCSD WG750810	1030_38.D	10/30/2014	11:20 PM
VOCGC10	MS WG750810	MS WG750810	1030_39.D	10/30/2014	11:42 PM
VOCGC10	MSD WG750810	MSD WG750810	1030_40.D	10/31/2014	12:04 AM
VOCGC10	Blank WG750810	Blank WG750810	1030_42.D	10/31/2014	12:49 AM
VOCGC10	TU904-SB05-NS01	L729564-01	1030_49.D	10/31/2014	3:27 AM
VOCGC10	TU904-SB05-NS02	L729564-02	1030_50.D	10/31/2014	3:49 AM
VOCGC10	TU904-SB08-NS01	L729564-04	1030_51.D	10/31/2014	4:12 AM
VOCGC10	TU904-SB08-NS02	L729564-05	1030_52.D	10/31/2014	4:34 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750792**
Analysis Date:	10/30/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729564-03		

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	4.7452	86.3	67 - 132	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.6973	85.4	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	4.7452	86.3	4.6973	85.4	67 - 132		1.01	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750810**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729564-01, -02, -04, -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	5.0283	91.4	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	4.7543	86.4	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	5.0283	91.4	4.7543	86.4	63.5 - 137		5.6	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750792**
Analysis Date:	10/30/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729564-03		

Matrix Spike / Matrix Spike Duplicate

L729613-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	2.5051	6.3743	70.3	6.1675	66.6	50 - 143		3.3	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750810**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729564-01, -02, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729568-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	22.75	6.85	<0.4937	138.20	88.7	133.26	85.5	28.5 - 138		3.64	23.6	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750792**
Analysis Date:	10/30/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729564-03		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec
L729564-03	VOCGC7	1030_20	0.201	100
LCS WG750792	VOCGC7	1030_04	0.216	108
LCSD WG750792	VOCGC7	1030_05	0.216	108
BLANK WG750792	VOCGC7	1030_09	0.202	101
MS WG750792	VOCGC7	1030_17	0.219	110
MSD WG750792	VOCGC7	1030_18	0.219	110

--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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750810**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC10		
Sample Numbers:	L729564-01, -02, -04, -05		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec
L729564-01 25x	VOCGC10	1030_49	0.198	99.2		
L729564-02 31.25x	VOCGC10	1030_50	0.198	99.2		
L729564-04 25.25x	VOCGC10	1030_51	0.198	99.1		
L729564-05 19.25x	VOCGC10	1030_52	0.198	99.0		
LCS WG750810	VOCGC10	1030_37	0.211	105	0.231	116
LCSD WG750810	VOCGC10	1030_38	0.209	105	0.230	115
MS WG750810	VOCGC10	1030_39	0.211	105	0.232	116
MSD WG750810	VOCGC10	1030_40	0.210	105	0.231	116
BLANK WG750810	VOCGC10	1030_42	0.197	98.6	0.212	106

--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: L729564
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCGC7

Continuing Calibration Verification Standard (CCV)

Filename: 1030_03.D
Date Analyzed: 10/30/2014
Time Analyzed: 8:47 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.47	99.4	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1030_29.D
Date Analyzed: 10/30/2014
Time Analyzed: 8:09 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.20	94.5	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCGC10

Continuing Calibration Verification Standard (CCV)

Filename: 1030_03.D
Date Analyzed: 10/30/2014
Time Analyzed: 8:53 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.58	101	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1030_22.D
Date Analyzed: 10/30/2014
Time Analyzed: 4:48 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.44	98.8	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCGC10

Continuing Calibration Verification Standard (CCV)

Filename: 1030_36.D
Date Analyzed: 10/30/2014
Time Analyzed: 10:22 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.68	103	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1030_55.D
Date Analyzed: 10/31/2014
Time Analyzed: 5:42 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.58	101	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 : STACEYE7
Released By : Stacey Eakes
Date Released : 12/4/2014 9:33:26 AM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1030_02	RT	BG10I24N						1	1	10/30/14 0805	"soil ISURIS14F10114"
2	1030_03	ICV GRO 5.5G PPM 14J27632	BG10I24N						1	1	10/30/14 0853	"soil ISURIS14F10114"
3	1030_04	LCSGRO	BG10I24N	WG750808	GROCA	SS			1	1	10/30/14 0926	"soil ISURIS14F10114/SPK14J27633"
4	1030_05	LCSDGRO	BG10I24N	WG750808	GROCA	SS			1	1	10/30/14 0948	"soil ISURIS14F10114/SPK14J27633"
5	1030_06	MSGRO	BG10I24N	WG750808	GROCA	SS			1	1	10/30/14 1020	"soil ISURIS14F10114/SPK14J27633"
6	1030_07	MSDGRO	BG10I24N	WG750808	GROCA	SS			1	1	10/30/14 1043	"soil ISURIS14F10114/SPK14J27633"
7	1030_08	INSTBLK	BG10I24N						1	1	10/30/14 1105	"soil ISURIS14F10114"
8	1030_09	BLANK	BG10I24N	WG750808	GROCA	SS			1	1	10/30/14 1128	"soil ISURIS14F10114"
9	1030_10	L729542-23	BG10I24N	WG750808	GROCA	SS	ERMWCCA	CA	1	1	10/30/14 1204	"soil ISURIS14F10114"
10	1030_11	L729226-01	BG10I24N	WG750808	GROWY	SS	MARATHON	WY	5	5	10/30/14 1230	"soil ISURIS14F10114"
11	1030_12	L729314-01	BG10I24N	WG750808	GROWY	SS	DELTAUT	WY	5	5	10/30/14 1252	"soil ISURIS14F10114"
12	1030_13	L729317-04	BG10I24N	WG750808	GROWY	SS	DELTAUT	WY	50	50	10/30/14 1315	"soil ISURIS14F10114"
13	1030_14	DNRL729542 -04	BG10I24N	WG750808					10000	10000	10/30/14 1337	"soil ISURIS14F10114"
14	1030_15	DNRL729542 -05	BG10I24N	WG750808					10000	10000	10/30/14 1410	"soil ISURIS14F10114"
15	1030_16	L729542-19	BG10I24N	WG750808	GROCA	SS	ERMWCCA	CA	10000	10000	10/30/14 1433	"soil ISURIS14F10114"
16	1030_17	DNRL729542 -20	BG10I24N	WG750808					10000	10000	10/30/14 1455	"soil ISURIS14F10114"
17	1030_18	DNRL729542 -21	BG10I24N	WG750808					250	250	10/30/14 1518	"soil ISURIS14F10114"
18	1030_19	DNRL729542 -22	BG10I24N	WG750808					10000	10000	10/30/14 1540	"soil ISURIS14F10114"
19	1030_20	INSTBLK	BG10I24N						1	1	10/30/14 1603	"soil ISURIS14F10114"
20	1030_21	RT	BG10I24N						1	1	10/30/14 1625	"soil ISURIS14F10114"
21	1030_22	CCV GRO 5.5G PPM 14J27632	BG10I24N						1	1	10/30/14 1648	"soil ISURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC10
Computer Name : STACEYE7

Released By : Stacey Eakes
Date Released : 12/4/2014 9:33:26 AM

Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1030_23	INSTBLK	BG10I24N						1	1	10/30/14 1721	"soil ISURIS14F10114"
23	1030_24	DNRL729542 -24	BG10I24N	WG750808					500	500	10/30/14 1743	"soil ISURIS14F10114"
24	1030_25	L729542-25	BG10I24N	WG750808	GROCA	SS	ERMWCCA	CA	1	0.83	10/30/14 1805	"soil ISURIS14F10114"
25	1030_26	L729542-26	BG10I24N	WG750808	GROCA	SS	ERMWCCA	CA	5	5	10/30/14 1828	"soil ISURIS14F10114"
26	1030_27	L729671-06	BG10I24N	WG750808	GROCA	SS	TETRAHTX	CA	5	5	10/30/14 1850	"soil ISURIS14F10114"
27	1030_28	L729671-07	BG10I24N	WG750808	GROCA	SS	TETRAHTX	CA	5	5	10/30/14 1912	"soil ISURIS14F10114"
28	1030_29	L729671-08	BG10I24N	WG750808	GROCA	SS	TETRAHTX	CA	5	5	10/30/14 1935	"soil ISURIS14F10114"
29	1030_30	L729671-09	BG10I24N	WG750808	GROCA	SS	TETRAHTX	CA	5	5	10/30/14 1957	"soil ISURIS14F10114"
30	1030_31	L729671-10	BG10I24N	WG750808	GROCA	SS	TETRAHTX	CA	5	5	10/30/14 2019	"soil ISURIS14F10114"
31	1030_32	L729671-11	BG10I24N	WG750808	GROCA	SS	TETRAHTX	CA	5	5	10/30/14 2042	"soil ISURIS14F10114"
32	1030_33	L729671-12	BG10I24N	WG750808	GROCA	SS	TETRAHTX	CA	5	5	10/30/14 2104	"soil ISURIS14F10114"
33	1030_34	INSTBLK	BG10I24N						1	1	10/30/14 2138	"soil ISURIS14F10114"
34	1030_35	RT	BG10I24N						1	1	10/30/14 2200	"soil ISURIS14F10114"
35	1030_36	ICV GRO 5.5G PPM 14J27632	BG10I24N						1	1	10/30/14 2222	"soil ISURIS14F10114"
36	1030_37	LCSGRO	BG10I24N	WG750810	GRO	SS			1	1	10/30/14 2257	"soil ISURIS14F10114 spk14J27633"
37	1030_38	LCSDGRO	BG10I24N	WG750810	GRO	SS			1	1	10/30/14 2320	"soil ISURIS14F10114 spk14J27633"
38	1030_39	MSGRO	BG10I24N	WG750810	GRO	SS			22.75	22.75	10/30/14 2342	"soil ISURIS14F10114 spk14J27633"
39	1030_40	MSDGRO	BG10I24N	WG750810	GRO	SS			22.75	22.75	10/31/14 0004	"soil ISURIS14F10114 spk14J27633"
40	1030_41	INSTBLK	BG10I24N						1	1	10/31/14 0027	"soil ISURIS14F10114"
41	1030_42	BLANK	BG10I24N	WG750810	GRO	SS			1	1	10/31/14 0049	"soil ISURIS14F10114"
42	1030_43	L729568-02	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	22.75	22.75	10/31/14 0112	"soil ISURIS14F10114"
43	1030_44	L729563-01	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	27.5	27.5	10/31/14 0134	"soil ISURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC10
Computer Name : STACEYE7
Released By : Stacey Eakes
Date Released : 12/4/2014 9:33:26 AM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
44	1030_45	L729563-02	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	11.75	11.75	10/31/14 0157	"soil ISURIS14F10114"
45	1030_46	L729563-04	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	24.5	24.5	10/31/14 0219	"soil ISURIS14F10114"
46	1030_47	L729563-05	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	26	26	10/31/14 0242	"soil ISURIS14F10114"
47	1030_48	L729563-06	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	19.75	19.75	10/31/14 0304	"soil ISURIS14F10114"
48	1030_49	L729564-01	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	25	25	10/31/14 0327	"soil ISURIS14F10114"
49	1030_50	L729564-02	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	31.25	31.25	10/31/14 0349	"soil ISURIS14F10114"
50	1030_51	L729564-04	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	25.25	25.25	10/31/14 0412	"soil ISURIS14F10114"
51	1030_52	L729564-05	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	19.25	19.25	10/31/14 0434	"soil ISURIS14F10114"
52	1030_53	INSTBLK	BG10I24N						1	1	10/31/14 0457	"soil ISURIS14F10114"
53	1030_54	RT	BG10I24N						1	1	10/31/14 0519	"soil ISURIS14F10114"
54	1030_55	CCV GRO 5.5G PPM 14J27632	BG10I24N						1	1	10/31/14 0542	"soil ISURIS14F10114"
55	1030_56	L729975-07	BG10I24N	WG750810	GRO	SS	XTOSMT	MT	5	5	10/31/14 0605	"soil ISURIS14F10114"
56	1030_57	L729975-08	BG10I24N	WG750810	GRO	SS	XTOSMT	MT	5	5	10/31/14 0627	"soil ISURIS14F10114"
57	1030_58	L729977-01	BG10I24N	WG750810	GRO	SS	XTOSMT	MT	5	5	10/31/14 0650	"soil ISURIS14F10114"
58	1030_59	L729977-02	BG10I24N	WG750810	GRO	SS	XTOSMT	MT	5	5	10/31/14 0712	"soil ISURIS14F10114"
59	1030_60	L729566-01	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	23.75	23.75	10/31/14 0735	"soil ISURIS14F10114"
60	1030_61	L729566-02	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	19	19	10/31/14 0757	"soil ISURIS14F10114"
61	1030_62	L729566-03	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	23.25	23.25	10/31/14 0820	"soil ISURIS14F10114"
62	1030_63	L729566-05	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	23.75	23.75	10/31/14 0842	"soil ISURIS14F10114"
63	1030_64	L729566-06	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	17.75	17.75	10/31/14 0905	"soil ISURIS14F10114"
64	1030_65	L729568-01	BG10I24N	WG750810	GRO	SS	URSTAZ	AZ	21	21	10/31/14 0927	"soil ISURIS14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 03.D\FID2B.CH
Acq On : 30 Oct 2014 8:53 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 30 16:06 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 :

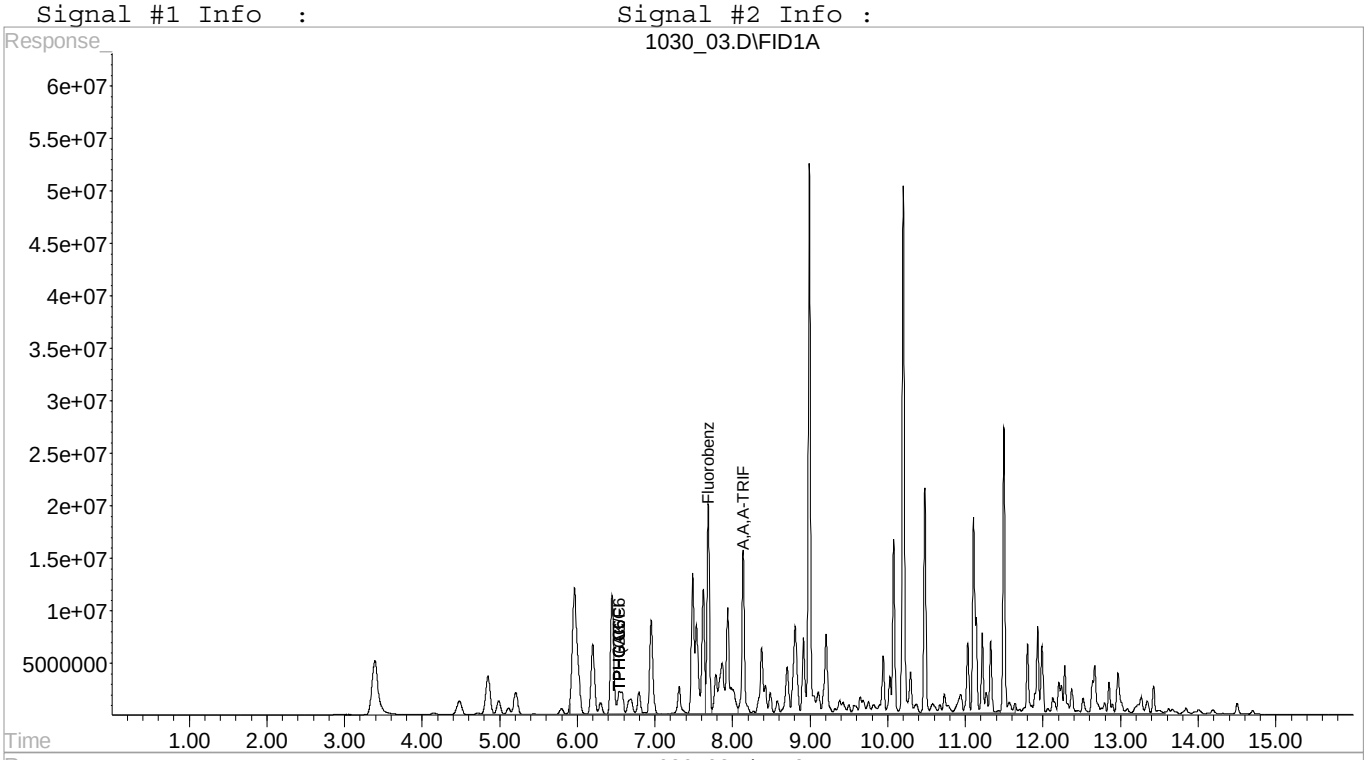
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	426250466	200.0000000 ppb
8) I Fluorobenzene #2	7.68	1404038533	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	376439191	220.1882061 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 110.09%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	901766978	245.2735898 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 122.64%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	11239259420	5.6391985 ppm
3) H,M TPHG C6 - C12	6.53	10930319600	5.6463341 ppm
4) H,M TPHGAK C6 to C10	6.53	8741397018	5.5758434 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	9272279585	5.5775528 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	593168707	172.7658014 ppb
11) T,M benzene	7.53	842388995	64.1152863 ppb
12) T,M toluene	8.99	3487195135	273.1749451 ppb
13) T,M ethylbenzene	10.07	1097141484	97.4341489 ppb
14) T,M m&p-xylene	10.20	3583099092	290.4402462 ppb
15) T,M o-xylene	10.48	1342102393	120.4229057 ppb

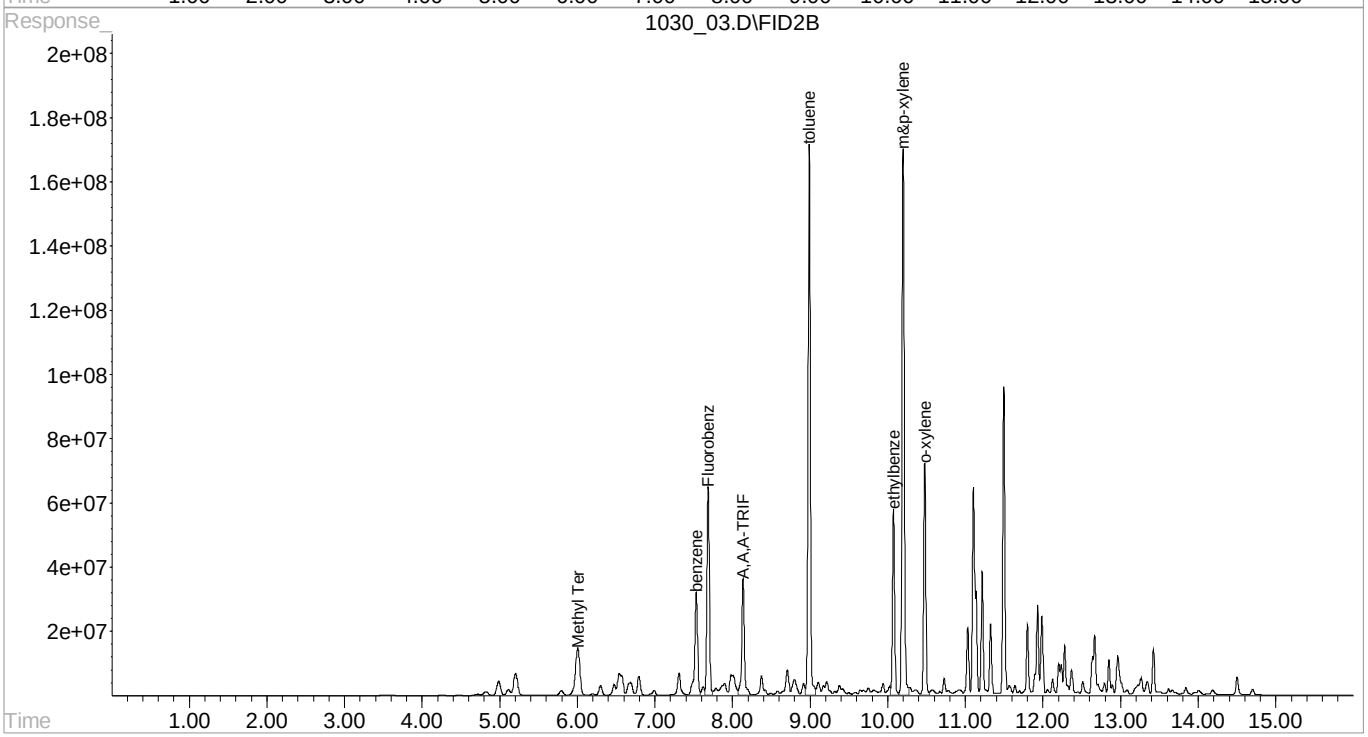
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 03.D\FID2B.CH
Acq On : 30 Oct 2014 8:53 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 30 16:06 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\103014\1030 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 22.D\FID2B.CH
Acq On : 30 Oct 2014 4:48 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 10:42 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 :

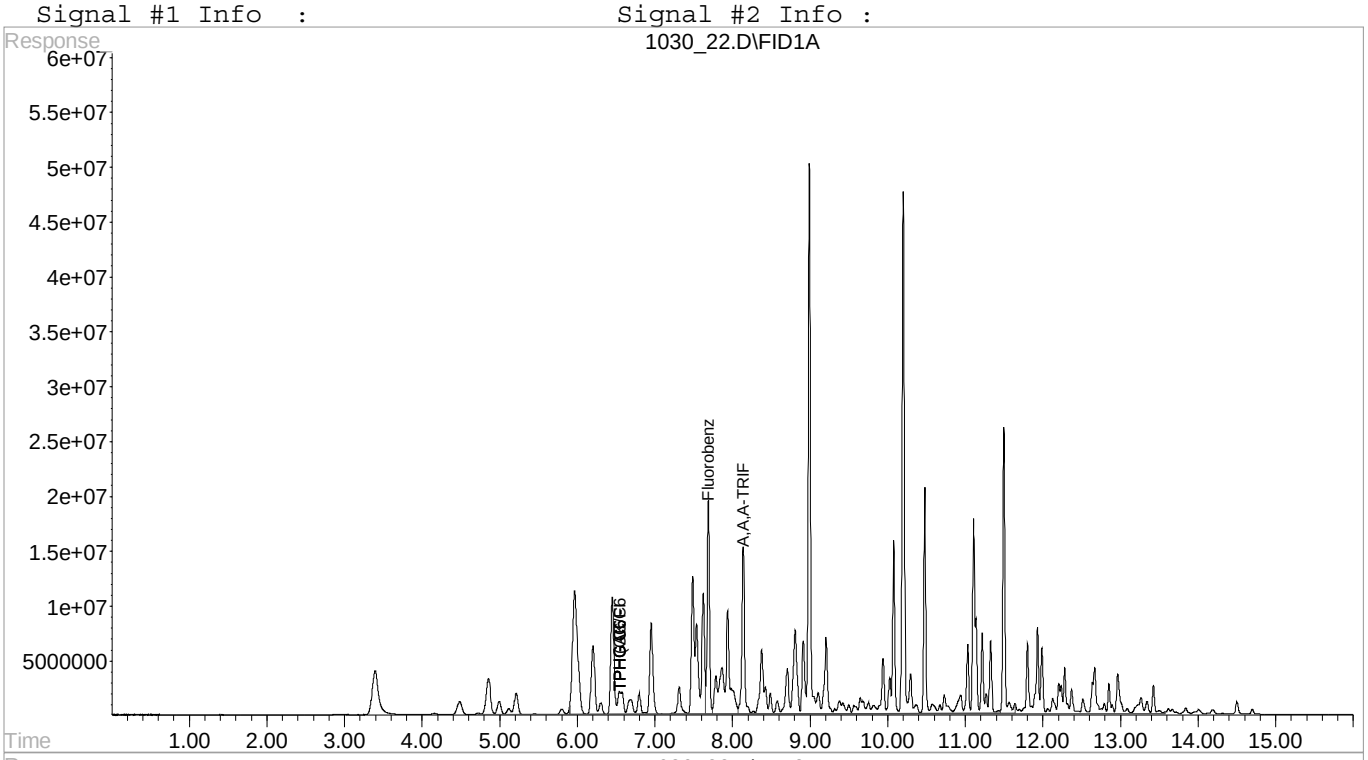
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	409121427	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1337598305	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	362400064	220.8513857 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 110.43%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	859936053	245.5138145 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 122.76%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10480275974	5.4750689 ppm
3) H,M TPHG C6 - C12	6.53	10208216720	5.4907512 ppm
4) H,M TPHGAK C6 to C10	6.53	8170635178	5.4267246 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	8678003579	5.4354508 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	565774095	172.9720464 ppb
11) T,M benzene	7.53	791043548	63.1978947 ppb
12) T,M toluene	8.99	3306437069	271.8805831 ppb
13) T,M ethylbenzene	10.07	1033020179	96.2965397 ppb
14) T,M m&p-xylene	10.20	3391490113	288.5638008 ppb
15) T,M o-xylene	10.48	1275962608	120.1751620 ppb

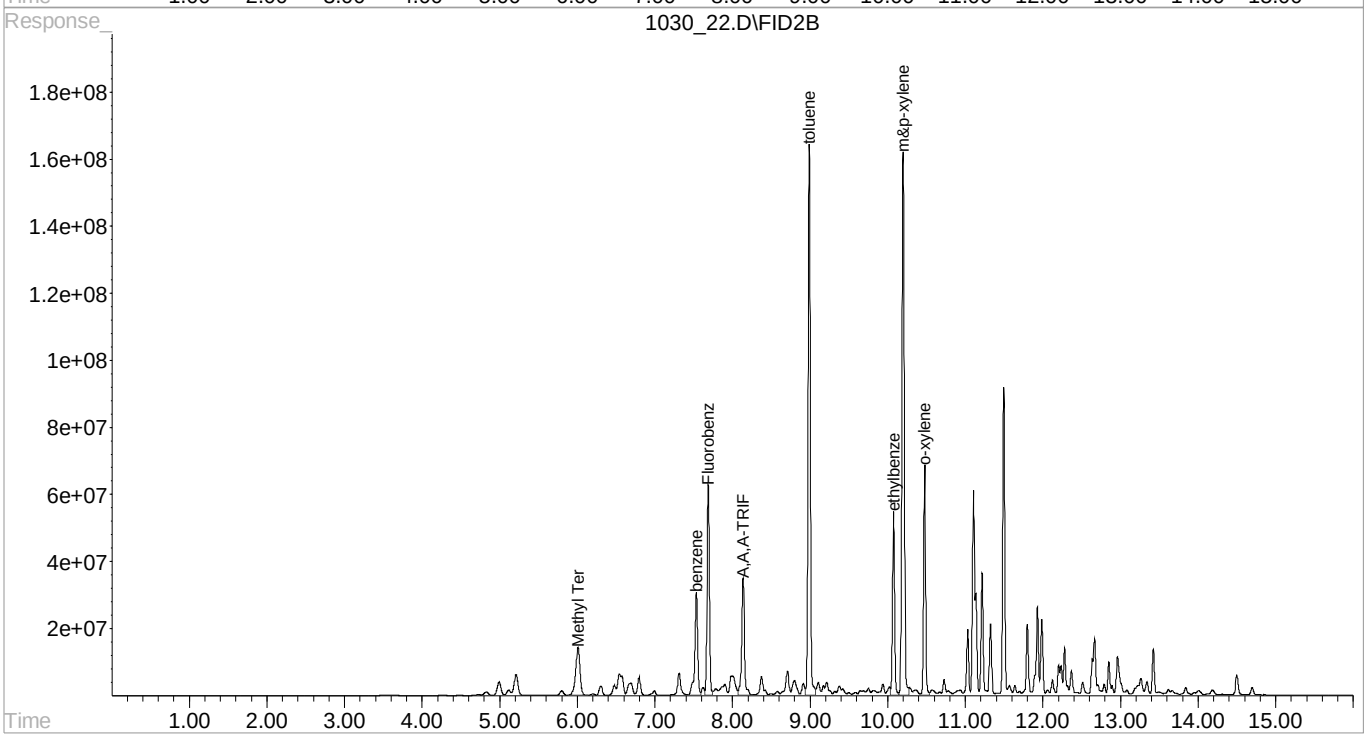
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 22.D\FID2B.CH
Acq On : 30 Oct 2014 4:48 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 10:42 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\103014\1030 36.D\FID1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 36.D\FID2B.CH
Acq On : 30 Oct 2014 10:22 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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 :

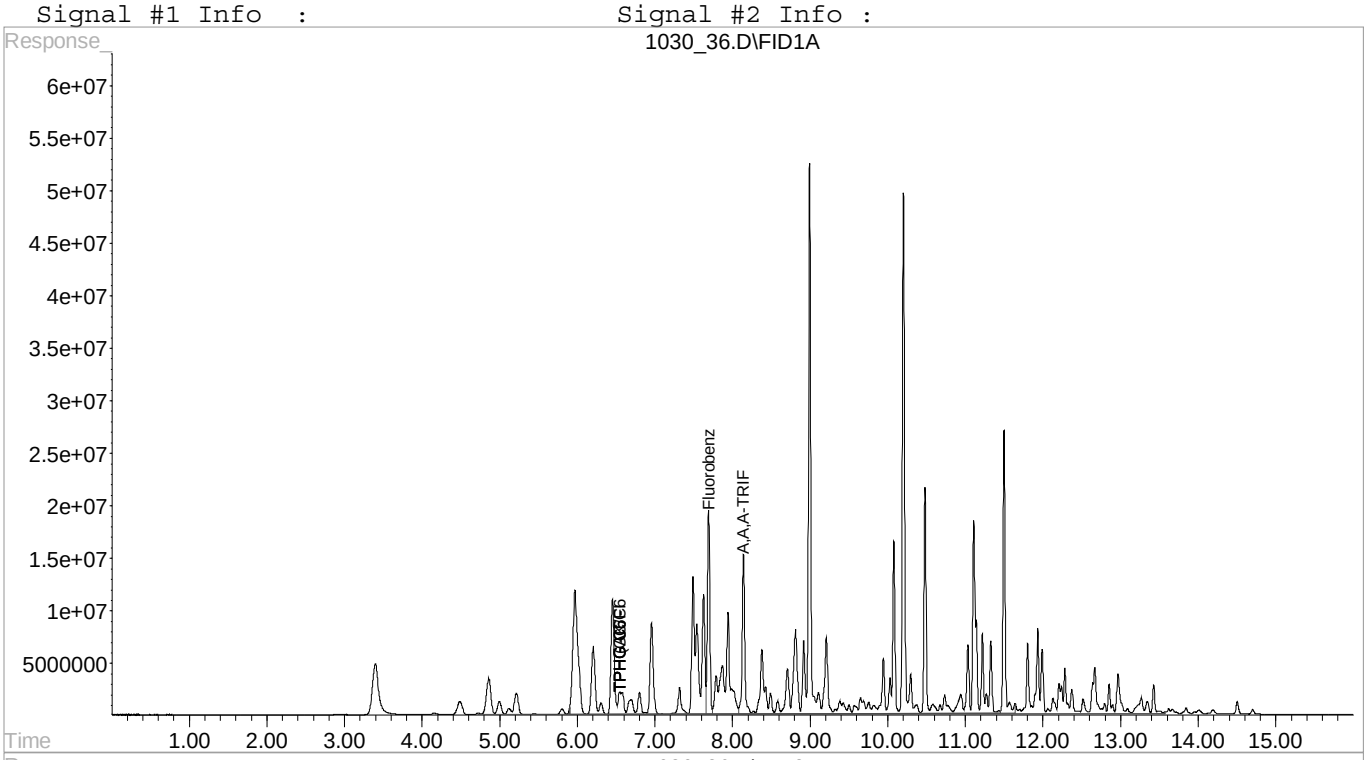
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	408823725	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1318577776	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	364246013	222.1379728 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 111.07%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	852368550	246.8636535 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 123.43%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10943396136	5.7266545 ppm
3) H,M TPHG C6 - C12	6.53	10655086146	5.7408094 ppm
4) H,M TPHGAK C6 to C10	6.53	8529466903	5.6747353 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	9054295305	5.6809046 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	597249408	185.2288162 ppb
11) T,M benzene	7.54	814380172	66.0008256 ppb
12) T,M toluene	8.99	3381266079	282.0442415 ppb
13) T,M ethylbenzene	10.08	1054866016	99.7514312 ppb
14) T,M m&p-xylene	10.20	3452430374	297.9862201 ppb
15) T,M o-xylene	10.48	1306734614	124.8487280 ppb

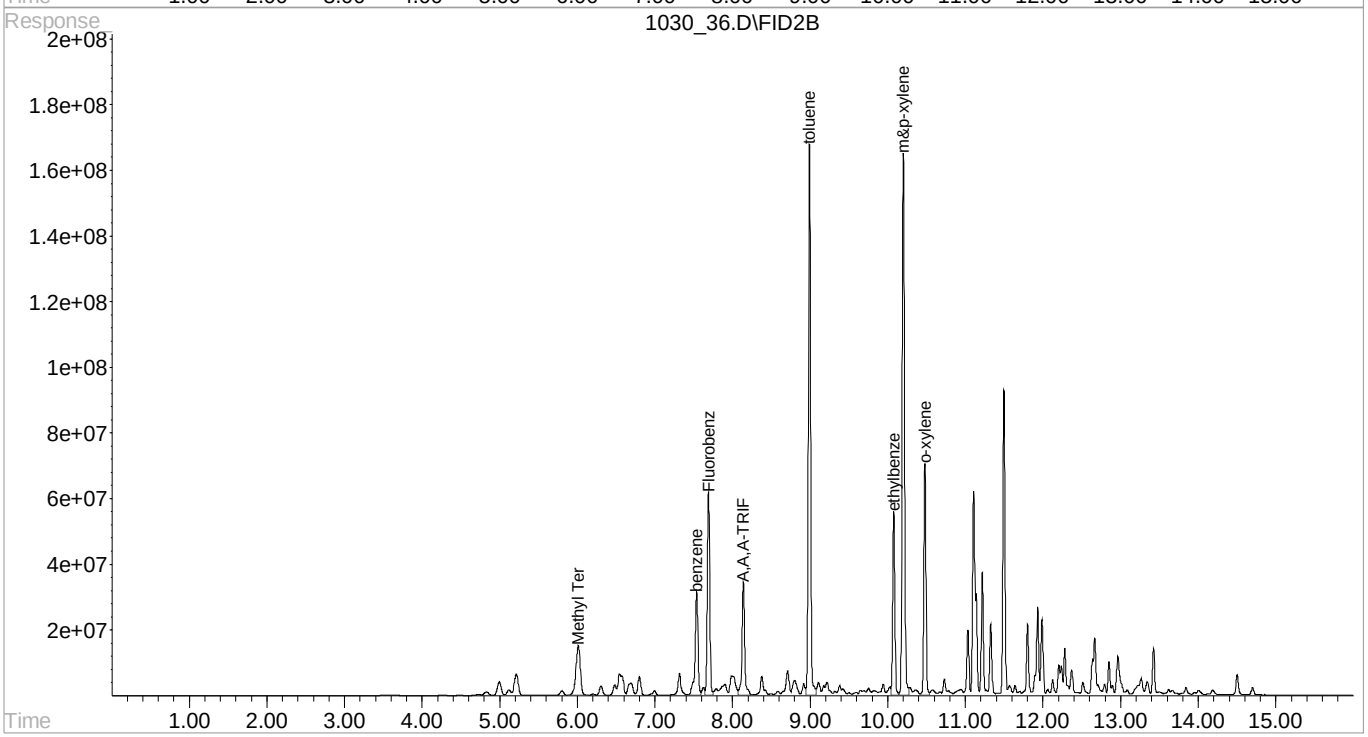
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 36.D\FID1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 36.D\FID2B.CH
Acq On : 30 Oct 2014 10:22 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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\103014\1030 37.D\FID1A.CH Vial: 37
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 37.D\FID2B.CH
Acq On : 30 Oct 2014 10:57 pm Operator: 621
Sample : LCSGRO 1x WG750810 Inst : VOCGC10
Misc : soil ISURIS14F10114 spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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 :

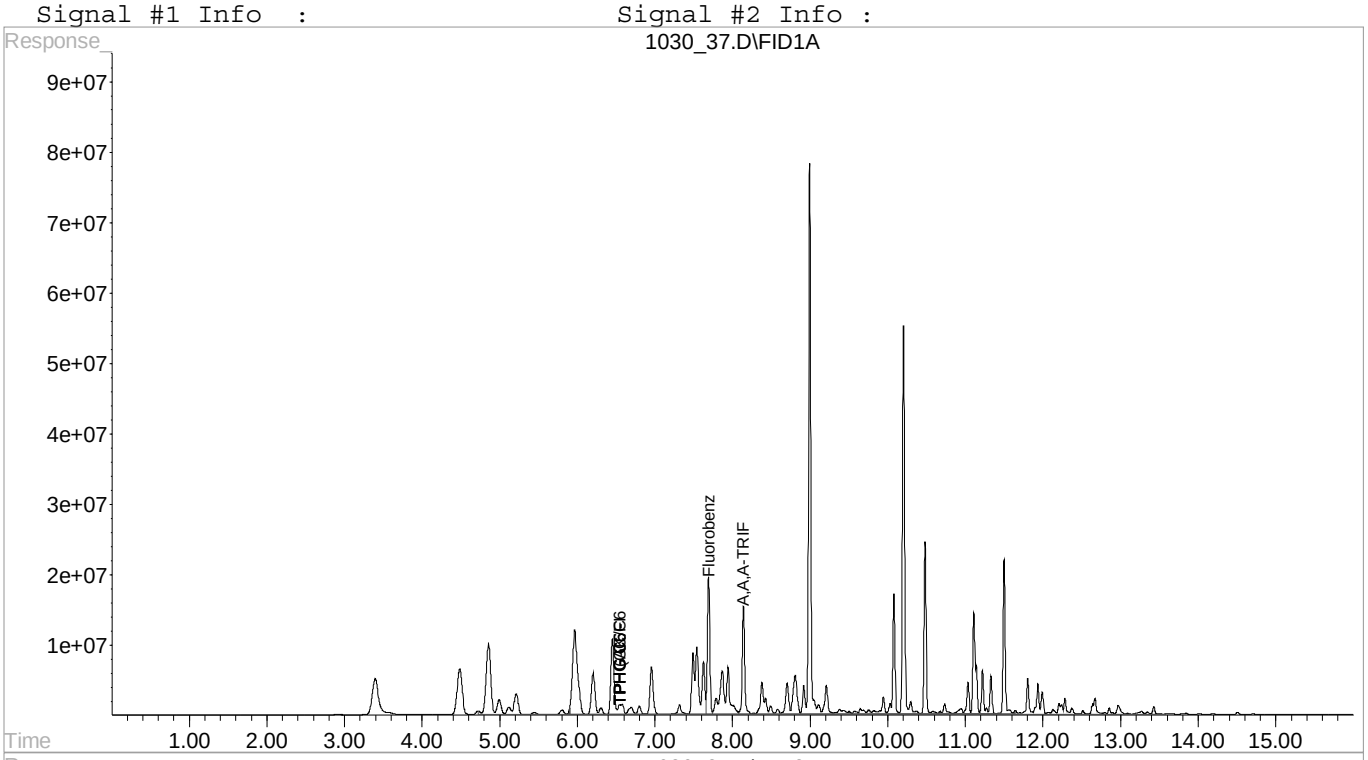
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	414960596	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1359573317	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	350845085	210.8009801 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 105.40%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	822762843	231.1040328 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 115.55%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	9686040677	4.9781164 ppm
3) H,M TPHG C6 - C12	6.53	8994532569	4.7535755 ppm
4) H,M TPHGAK C6 to C10	6.53	7704287643	5.0362322 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	8157742255	5.0283404 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	530320933	159.5124967 ppb
11) T,M benzene	7.54	901689834	70.8732697 ppb
12) T,M toluene	8.99	4664969472	377.3895017 ppb
13) T,M ethylbenzene	10.08	1096425206	100.5550682 ppb
14) T,M m&p-xylene	10.20	3823940306	320.0998537 ppb
15) T,M o-xylene	10.48	1484935116	137.5964799 ppb

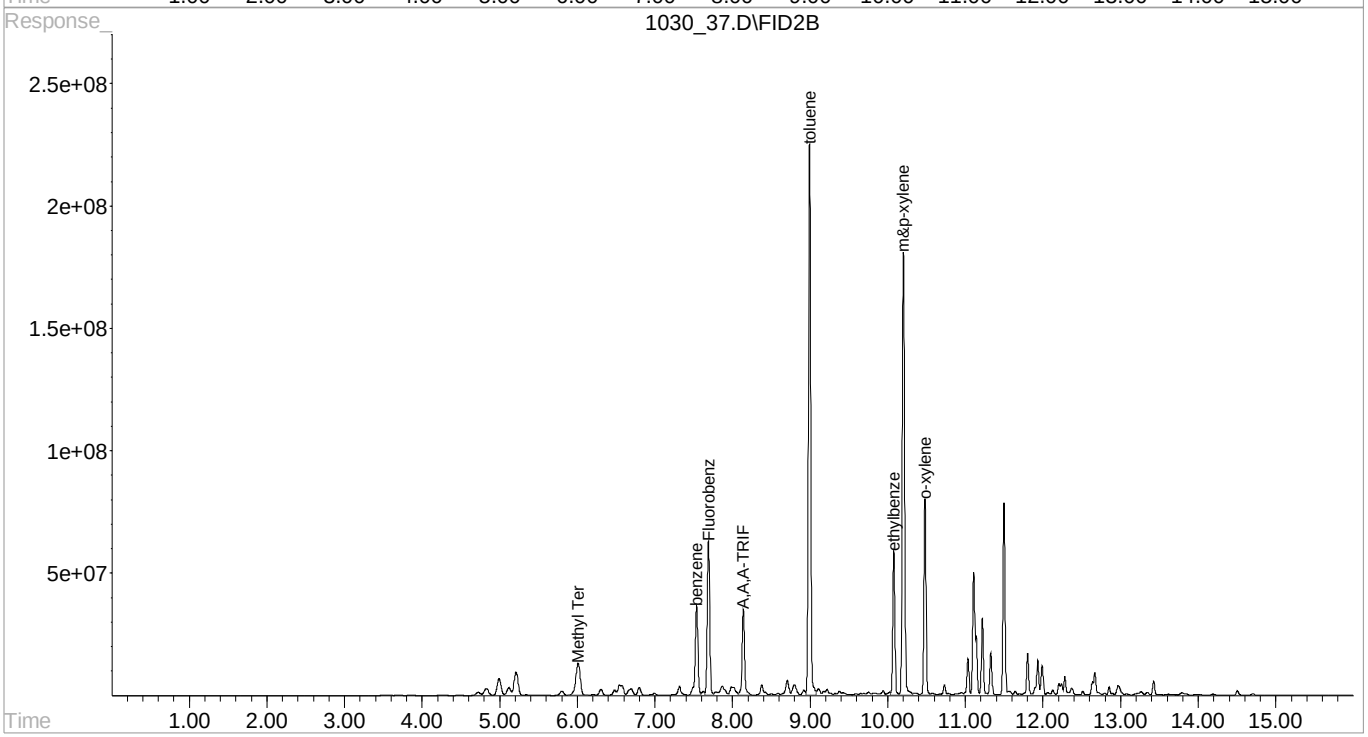
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 37.D\FID1A.CH Vial: 37
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 37.D\FID2B.CH
Acq On : 30 Oct 2014 10:57 pm Operator: 621
Sample : LCSGRO 1x WG750810 Inst : VOCGC10
Misc : soil ISURIS14F10114 spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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\103014\1030 38.D\FID1A.CH Vial: 38
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 38.D\FID2B.CH
Acq On : 30 Oct 2014 11:20 pm Operator: 621
Sample : LCSDGRO 1x WG750810 Inst : VOCGC10
Misc : soil ISURIS14F10114 spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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 :

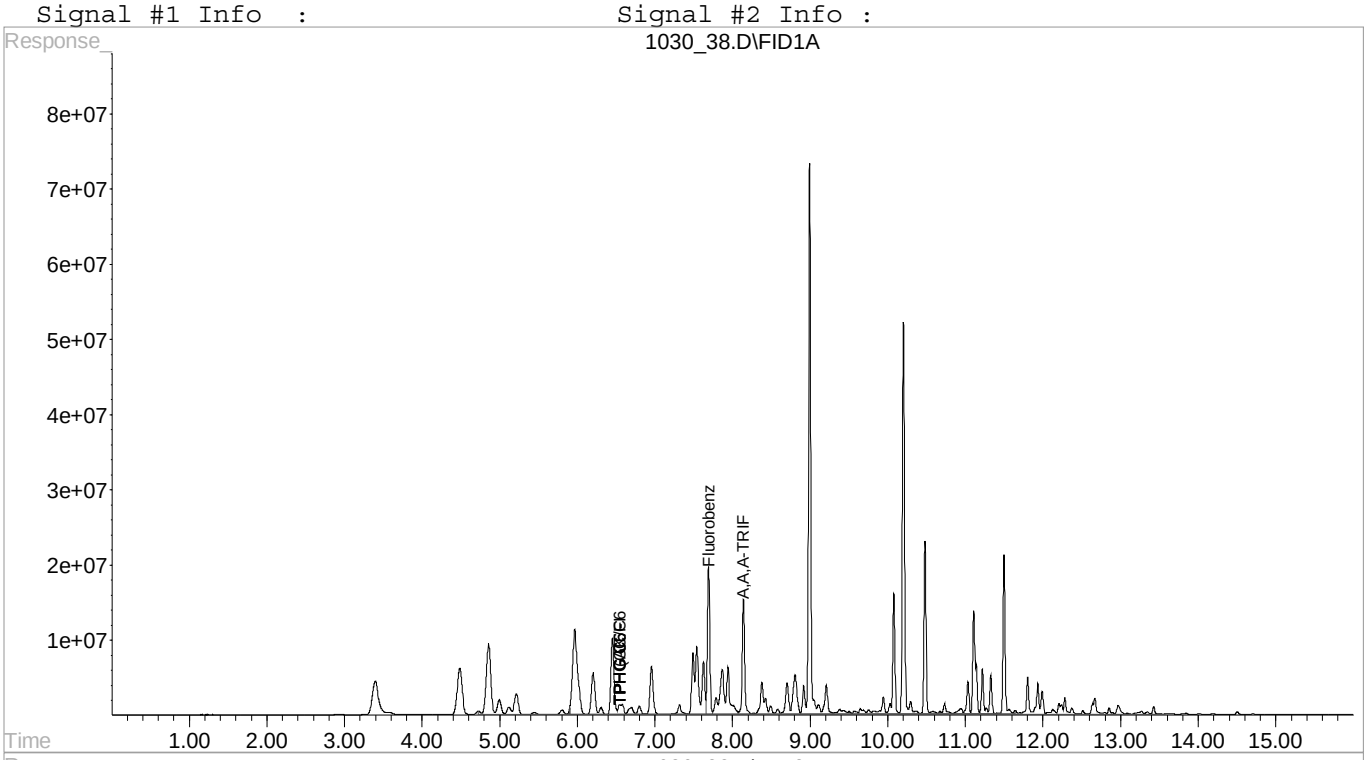
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	412027022	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1343944250	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	345593704	209.1241607 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 104.56%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	809407634	229.9966599 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 115.00%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	9100143596	4.7037357 ppm
3) H,M TPHG C6 - C12	6.53	8468552241	4.5010399 ppm
4) H,M TPHGAK C6 to C10	6.53	7233118688	4.7551199 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	7669489604	4.7542567 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	495985675	150.9198812 ppb
11) T,M benzene	7.54	834583770	66.3615635 ppb
12) T,M toluene	8.99	4402973960	360.3367064 ppb
13) T,M ethylbenzene	10.08	1026620532	95.2480907 ppb
14) T,M m&p-xylene	10.20	3626659776	307.1160873 ppb
15) T,M o-xylene	10.48	1394274123	130.6981355 ppb

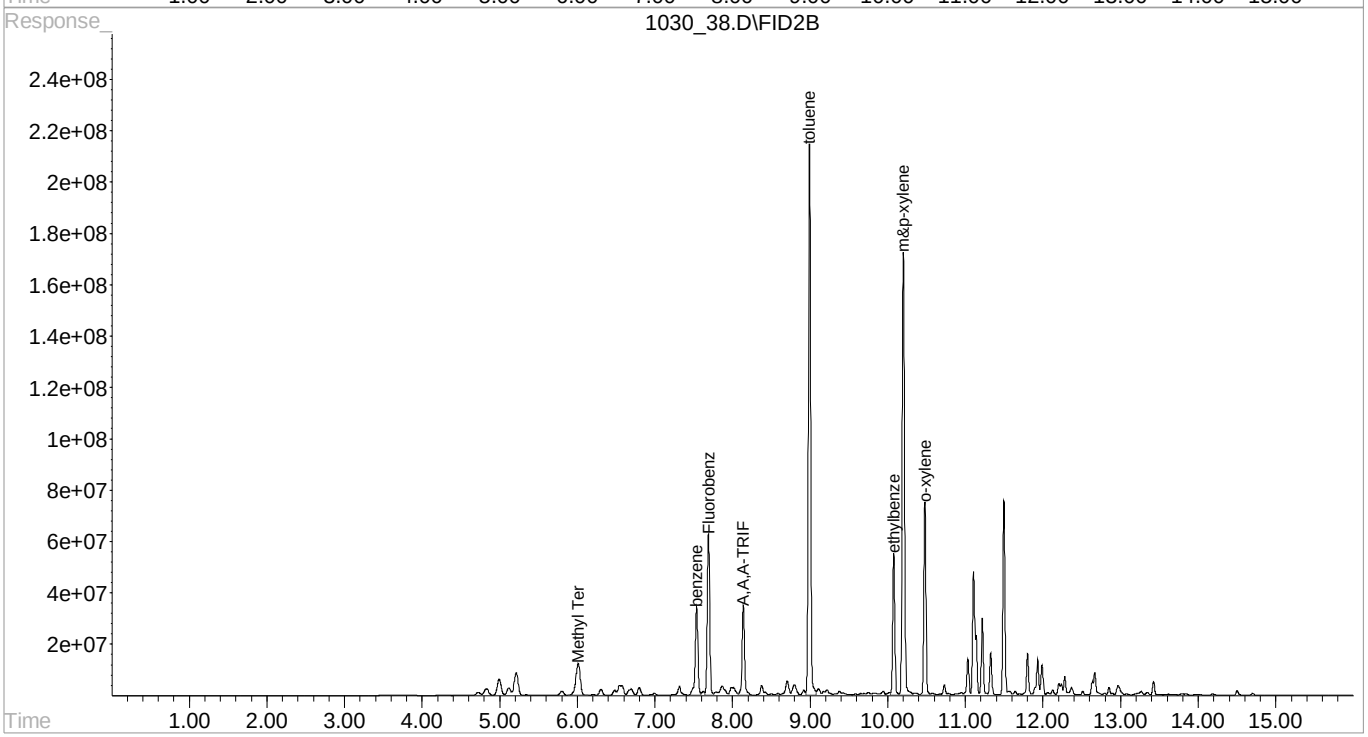
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 38.D\FID1A.CH Vial: 38
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 38.D\FID2B.CH
Acq On : 30 Oct 2014 11:20 pm Operator: 621
Sample : LCSDGRO 1x WG750810 Inst : VOCGC10
Misc : soil ISURIS14F10114 spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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\103014\1030 39.D\FID1A.CH Vial: 39
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 39.D\FID2B.CH
Acq On : 30 Oct 2014 11:42 pm Operator: 621
Sample : MSGRO 22.75x WG750810 L729568-02 Inst : VOCGC10
Misc : soil ISURIS14F10114 spk14J27633 Multiplr: 22.75
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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 :

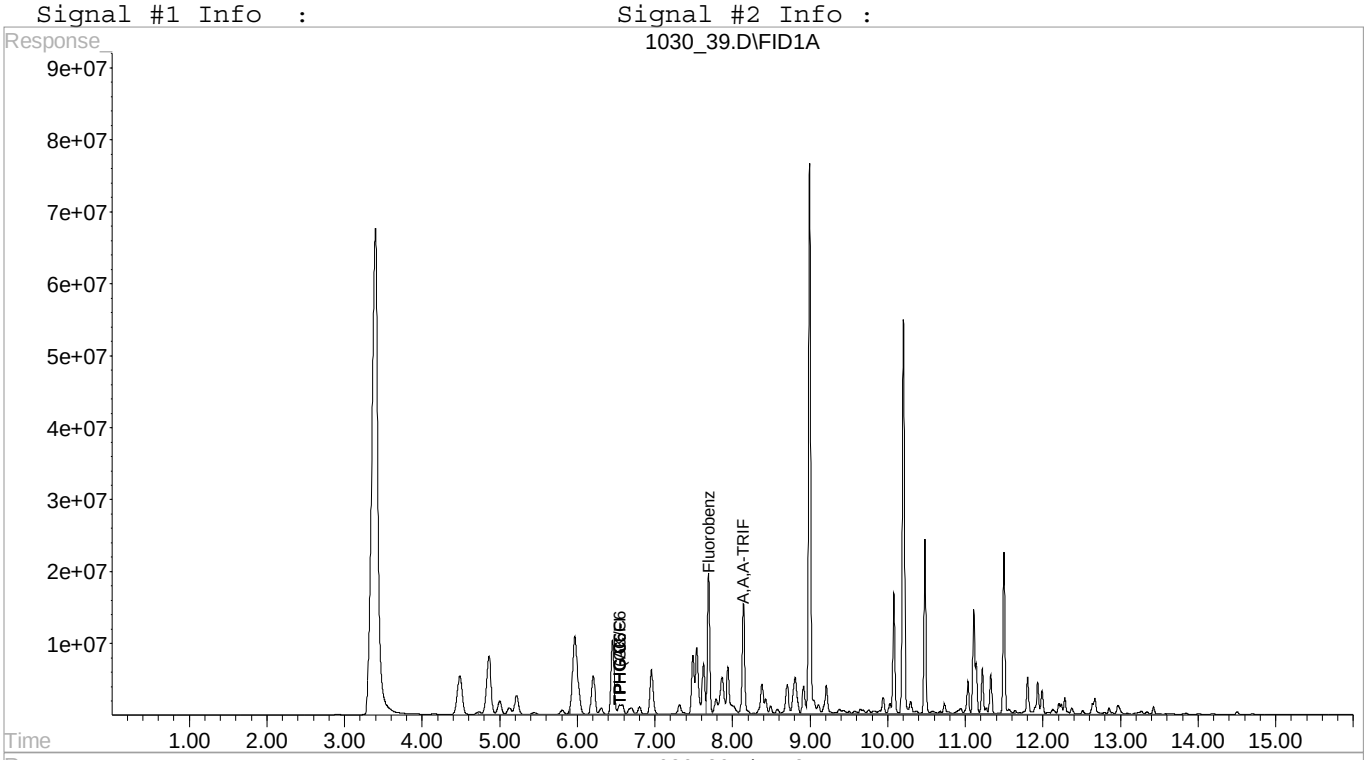
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	411746138	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1338766495	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	347729235	210.5599452 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 105.28%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	811660921	231.5289425 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 115.76%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	9265713834	109.0836774 ppm
3) H,M TPHG C6 - C12	6.53	8695088204	105.2870417 ppm
4) H,M TPHGAK C6 to C10	6.53	7398475518	110.7942315 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	7858595959	110.9754922 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	466203490	3239.7437517 ppb
11) T,M benzene	7.54	860610368	1562.8275848 ppb
12) T,M toluene	8.99	4542131014	8489.4560463 ppb
13) T,M ethylbenzene	10.08	1071562076	2270.4999002 ppb
14) T,M m&p-xylene	10.20	3769258589	7289.6974416 ppb
15) T,M o-xylene	10.48	1459673041	3124.8892611 ppb

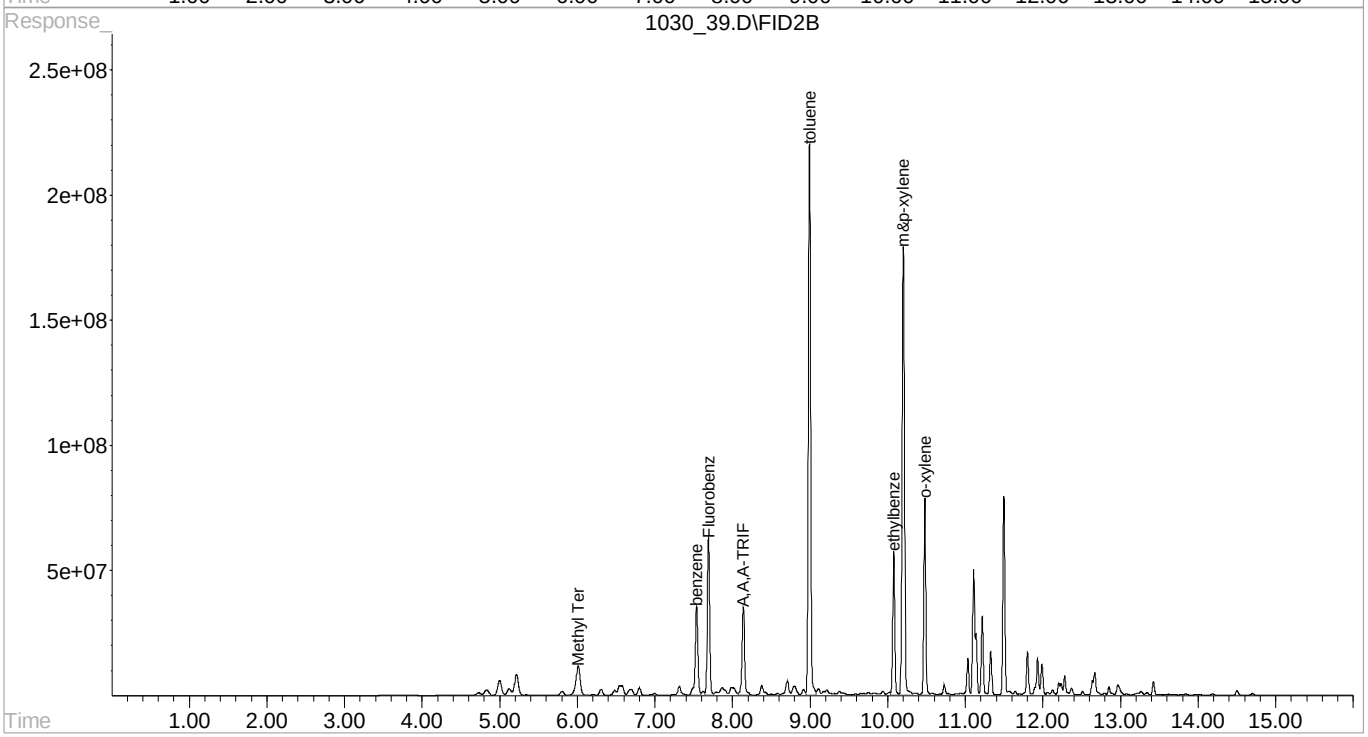
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 39.D\FID1A.CH Vial: 39
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 39.D\FID2B.CH
Acq On : 30 Oct 2014 11:42 pm Operator: 621
Sample : MSGRO 22.75x WG750810 L729568-02 Inst : VOCGC10
Misc : soil ISURIS14F10114 spk14J27633 Multiplr: 22.75
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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\103014\1030 40.D\FID1A.CH Vial: 40
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 40.D\FID2B.CH
Acq On : 31 Oct 2014 12:04 am Operator: 621
Sample : MSDGRO 22.75x WG750810 L729568-02 Inst : VOCGC10
Misc : soil ISURIS14F10114 spk14J27633 Multiplr: 22.75
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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 :

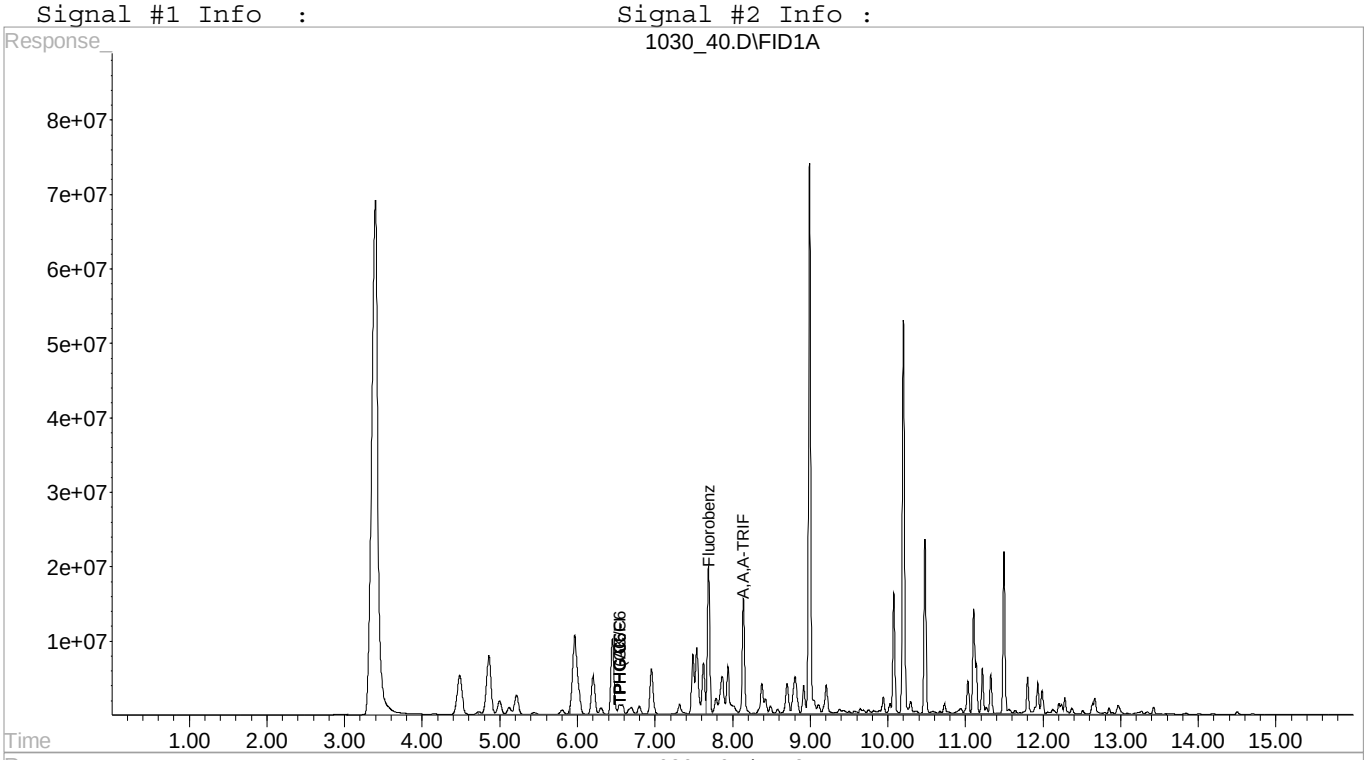
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	415918560	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1351100481	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	350351152	210.0193634 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 105.01%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.14	817728217	231.1302675 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 115.57%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	9034833078	105.2022605 ppm
3) H,M TPHG C6 - C12	6.53	8473701063	101.4775354 ppm
4) H,M TPHGAK C6 to C10	6.53	7212154537	106.8215833 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	7661566337	107.0064988 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	452818474	3118.0025367 ppb
11) T,M benzene	7.54	836577794	1505.3171643 ppb
12) T,M toluene	8.99	4425299521	8195.5869887 ppb
13) T,M ethylbenzene	10.08	1042453072	2188.6577394 ppb
14) T,M m&p-xylene	10.20	3670718182	7034.3147943 ppb
15) T,M o-xylene	10.48	1417541916	3006.9910840 ppb

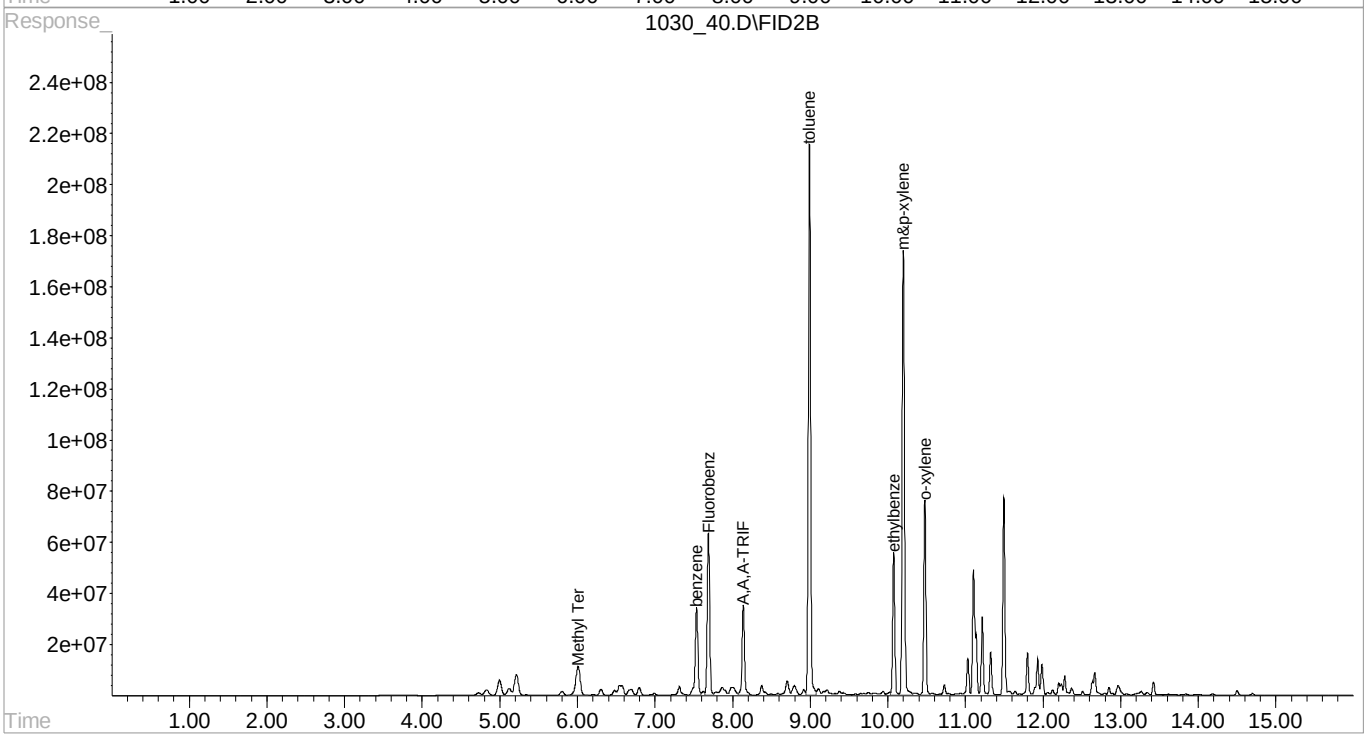
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 40.D\FID1A.CH Vial: 40
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 40.D\FID2B.CH
Acq On : 31 Oct 2014 12:04 am Operator: 621
Sample : MSDGRO 22.75x WG750810 L729568-02 Inst : VOCGC10
Misc : soil ISURIS14F10114 spk14J27633 Multiplr: 22.75
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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\103014\1030 42.D\FID1A.CH Vial: 42
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 42.D\FID2B.CH
Acq On : 31 Oct 2014 12:49 am Operator: 621
Sample : BLANK 1x WG750810 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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 :

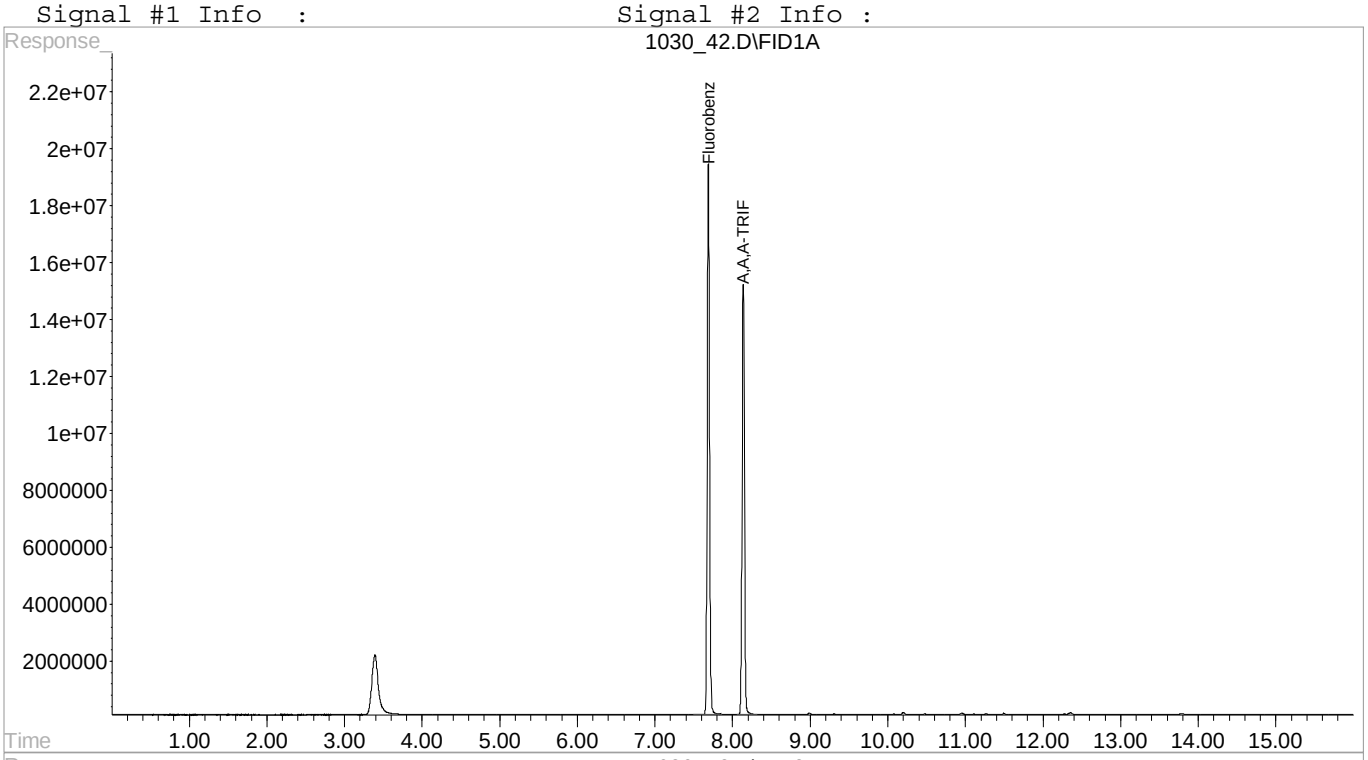
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	400222884	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1308735467	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	316702660	197.2940017	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 98.65%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	726976049	212.1307937	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 106.07%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	35209633	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	33151278	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	19876520	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	21204796	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.54	683391	0.0558014	ppb
12) T,M toluene	8.99	3847913	0.3233828	ppb
13) T,M ethylbenzene	10.08	1456375	0.1387551	ppb
14) T,M m&p-xylene	10.20	5956340	0.5179700	ppb
15) T,M o-xylene	10.48	1962175	0.1888811	ppb

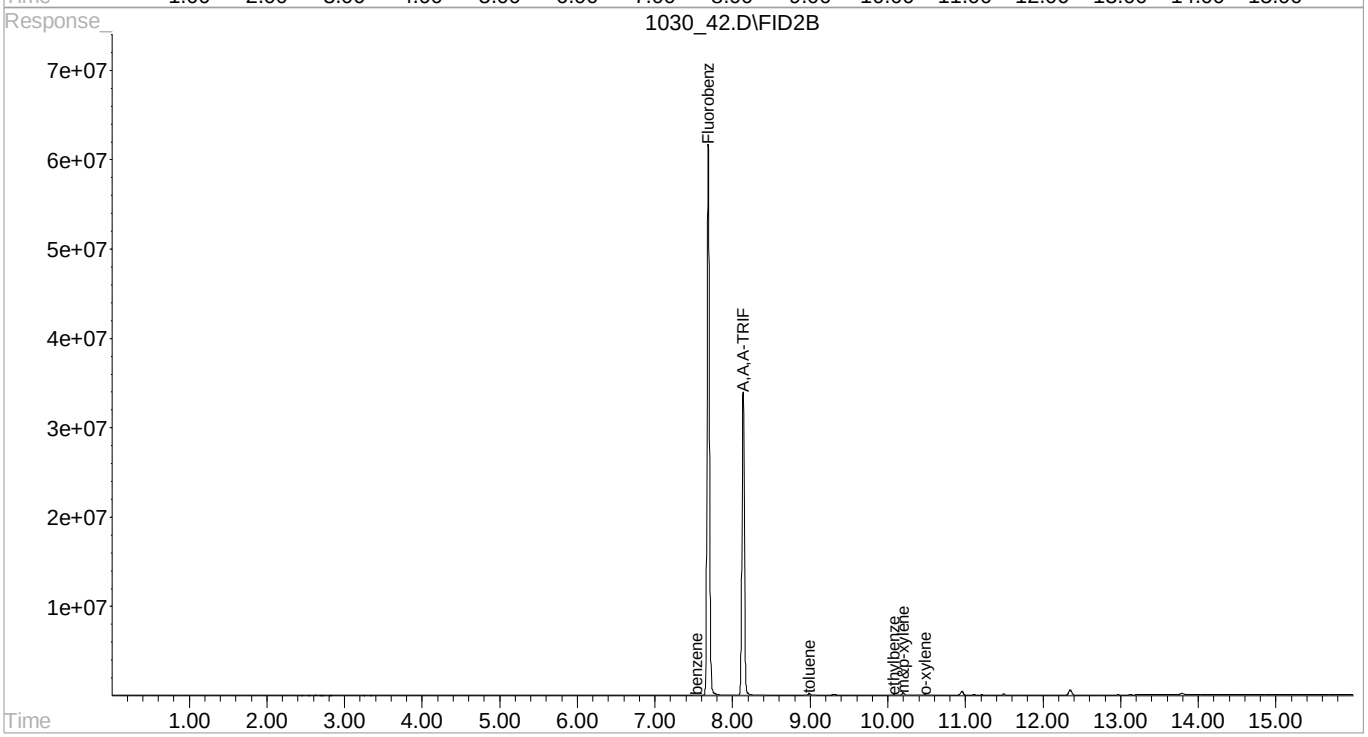
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 42.D\FID1A.CH Vial: 42
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 42.D\FID2B.CH
Acq On : 31 Oct 2014 12:49 am Operator: 621
Sample : BLANK 1x WG750810 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:50 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\103014\1030 49.D\FID1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 49.D\FID2B.CH
Acq On : 31 Oct 2014 3:27 am Operator: 621
Sample : L729564-01 25x WG750810 GRO Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 25.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 14:00 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 :

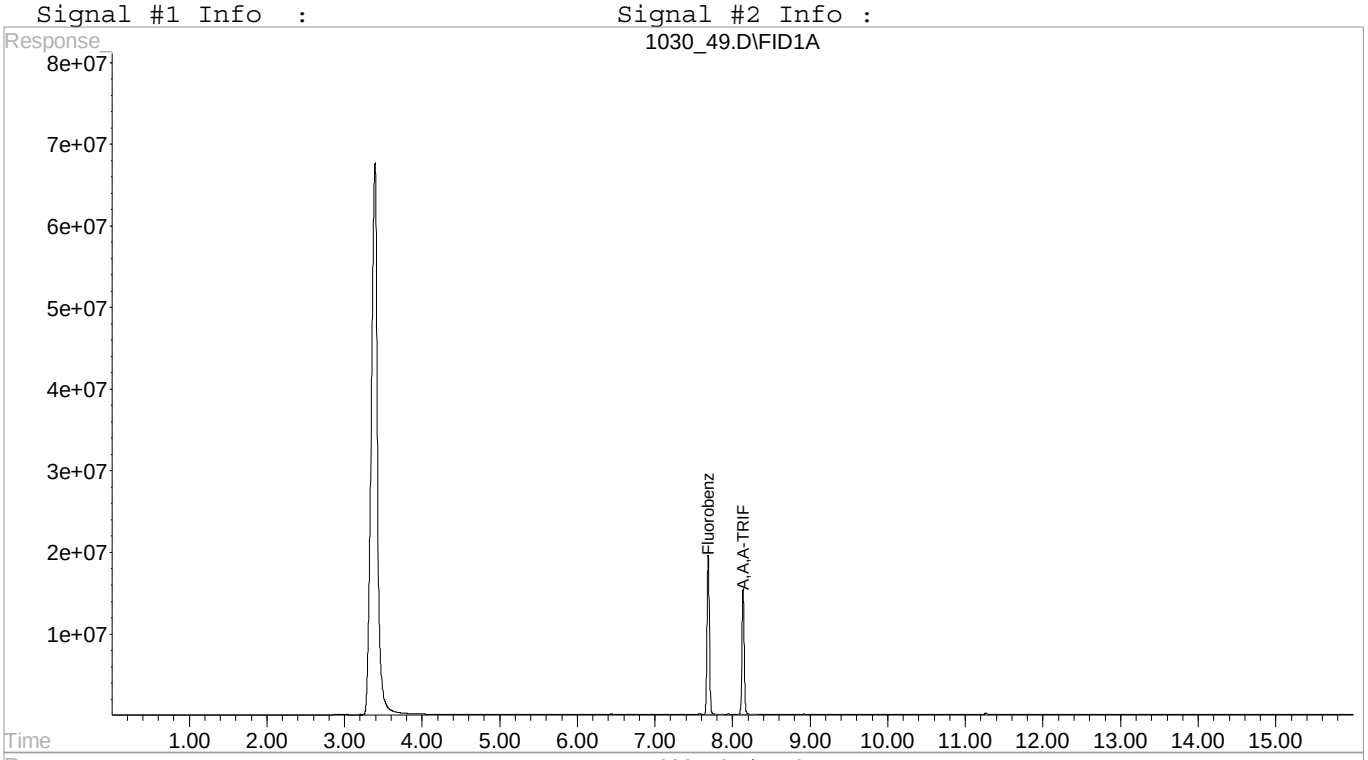
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	404182534	200.0000000	ppb
8) I Fluorobenzene #2	7.68	1308008334	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.13	321610272	198.3884835	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 99.19%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	731775385	213.6499386	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 106.82%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	51829889	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	47430722	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	35163850	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	39331784	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.58	6069162	12.3961300	ppb
12) T,M toluene	8.99	2373448	4.9894517	ppb
13) T,M ethylbenzene	10.07	905245	2.1573636	ppb
14) T,M m&p-xylene	10.20	2914675	6.3401066	ppb
15) T,M o-xylene	10.47	795271	1.9149048	ppb

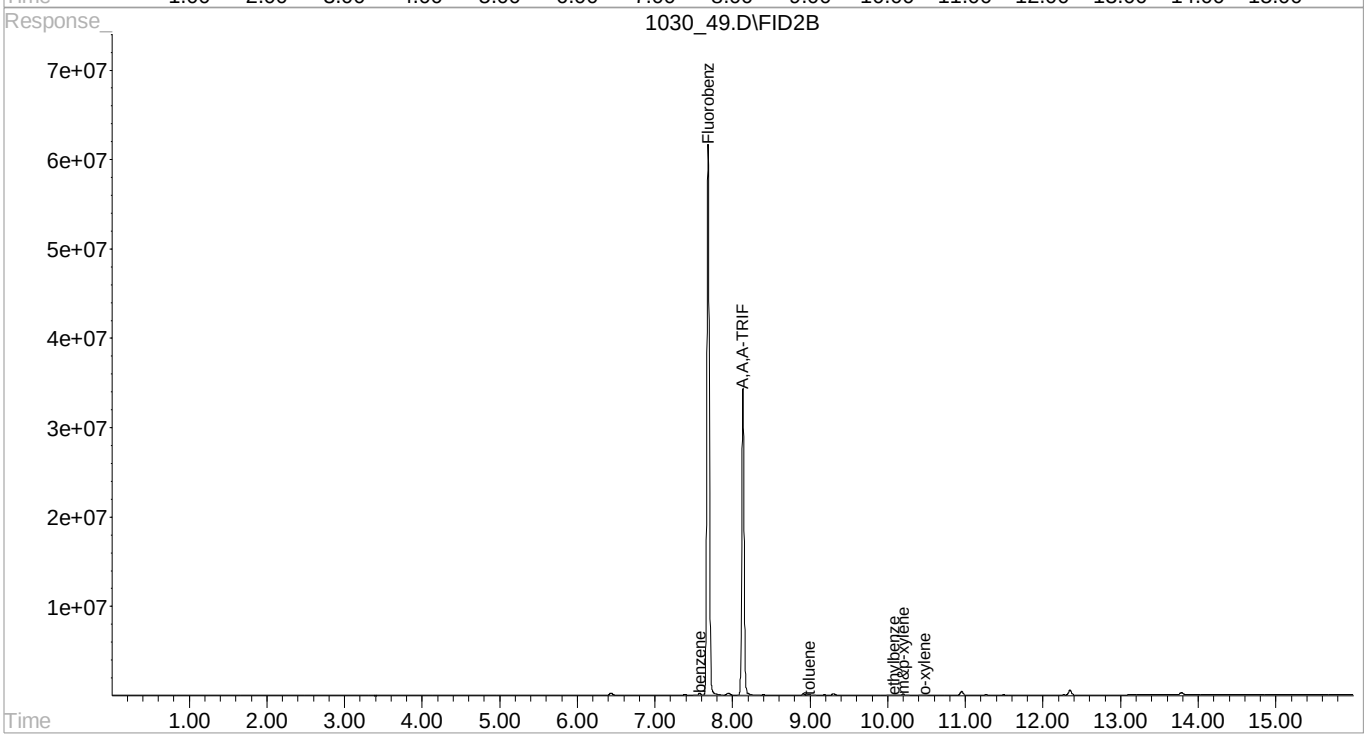
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 49.D\FID1A.CH Vial: 49
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 49.D\FID2B.CH
Acq On : 31 Oct 2014 3:27 am Operator: 621
Sample : L729564-01 25x WG750810 GRO Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 25.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 14:00 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\103014\1030 50.D\FID1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 50.D\FID2B.CH
Acq On : 31 Oct 2014 3:49 am Operator: 621
Sample : L729564-02 31.25x WG750810 GRO Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 31.25
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 14:01 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 :

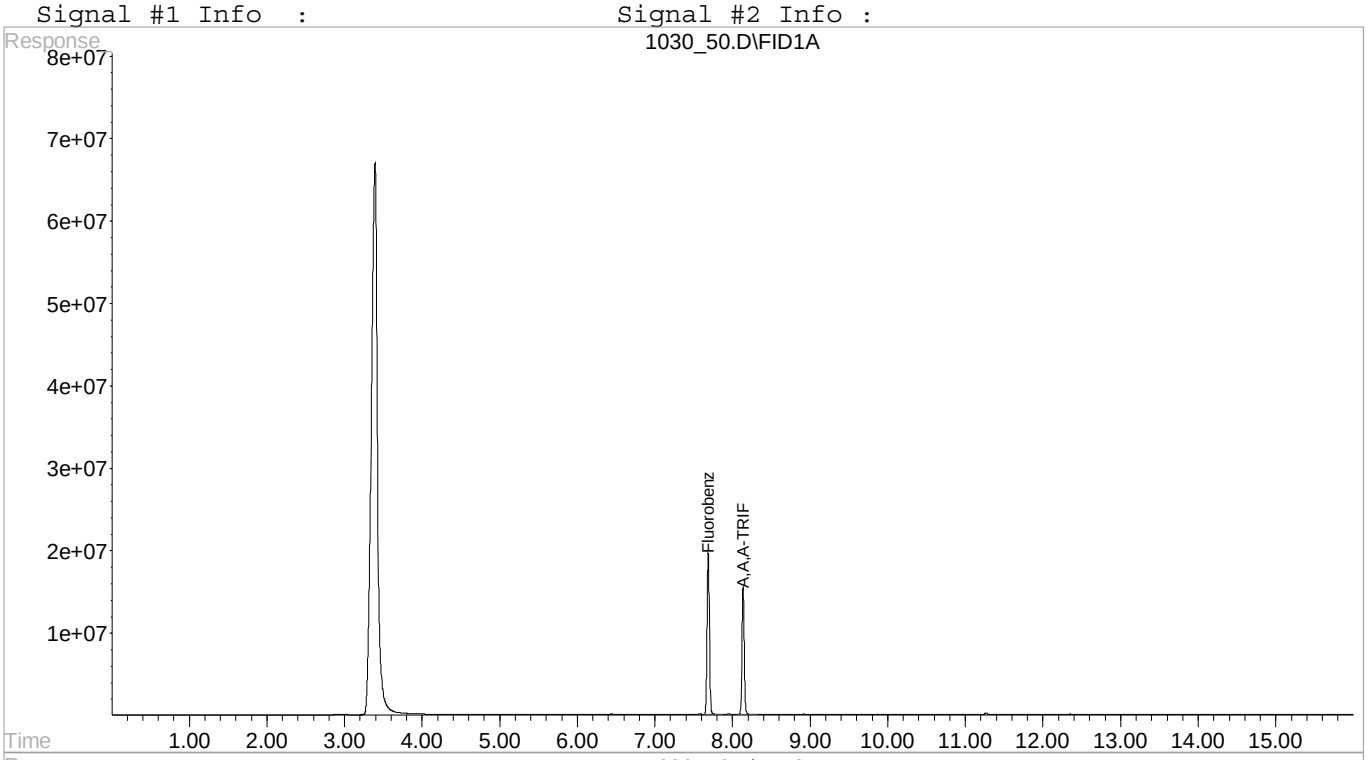
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	405455576	200.0000000	ppb
8) I Fluorobenzene #2	7.68	1308663165	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.13	322604162	198.3767527	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 99.19%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	733210338	213.9617728	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 106.98%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	58027015	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	53949431	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	38345438	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	43419408	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.58	5973559	15.2434496	ppb
12) T,M toluene	8.99	3075594	8.0778323	ppb
13) T,M ethylbenzene	10.07	1024169	3.0494481	ppb
14) T,M m&p-xylene	10.20	3310232	8.9961695	ppb
15) T,M o-xylene	10.47	1060818	3.1912851	ppb

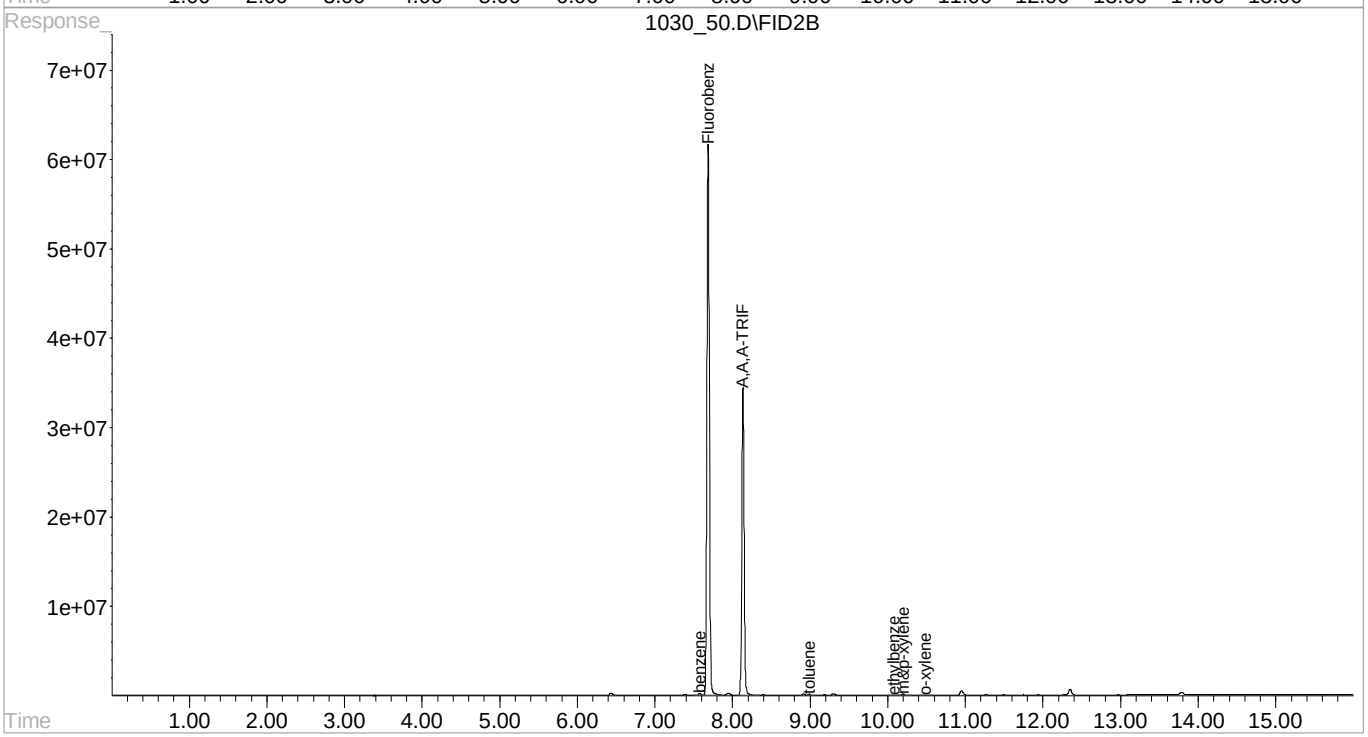
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 50.D\FID1A.CH Vial: 50
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 50.D\FID2B.CH
Acq On : 31 Oct 2014 3:49 am Operator: 621
Sample : L729564-02 31.25x WG750810 GRO Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 31.25
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 14:01 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\103014\1030 51.D\FID1A.CH Vial: 51
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 51.D\FID2B.CH
Acq On : 31 Oct 2014 4:12 am Operator: 621
Sample : L729564-04 25.25x WG750810 GRO Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 25.25
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 14:01 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 :

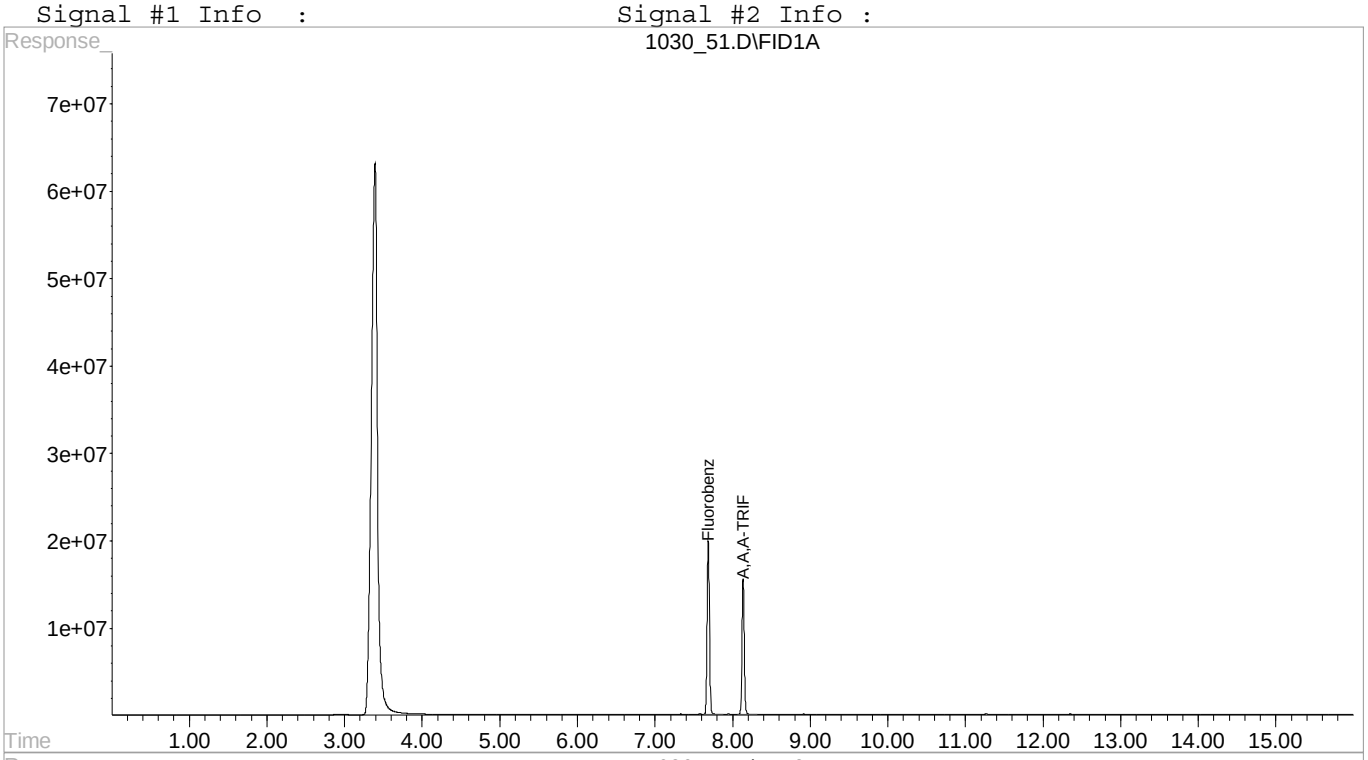
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	410057569	200.0000000	ppb
8) I Fluorobenzene #2	7.68	1323832579	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	325888378	198.1472859	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 99.07%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	739803581	213.4120075	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 106.71%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	49209479	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	44748572	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	31819057	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	36994788	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.58	5591457	11.3967548	ppb
12) T,M toluene	8.99	2250264	4.7206896	ppb
13) T,M ethylbenzene	10.07	907852	2.1590917	ppb
14) T,M m&p-xylene	10.20	3151503	6.8410534	ppb
15) T,M o-xylene	10.48	942608	2.2649669	ppb

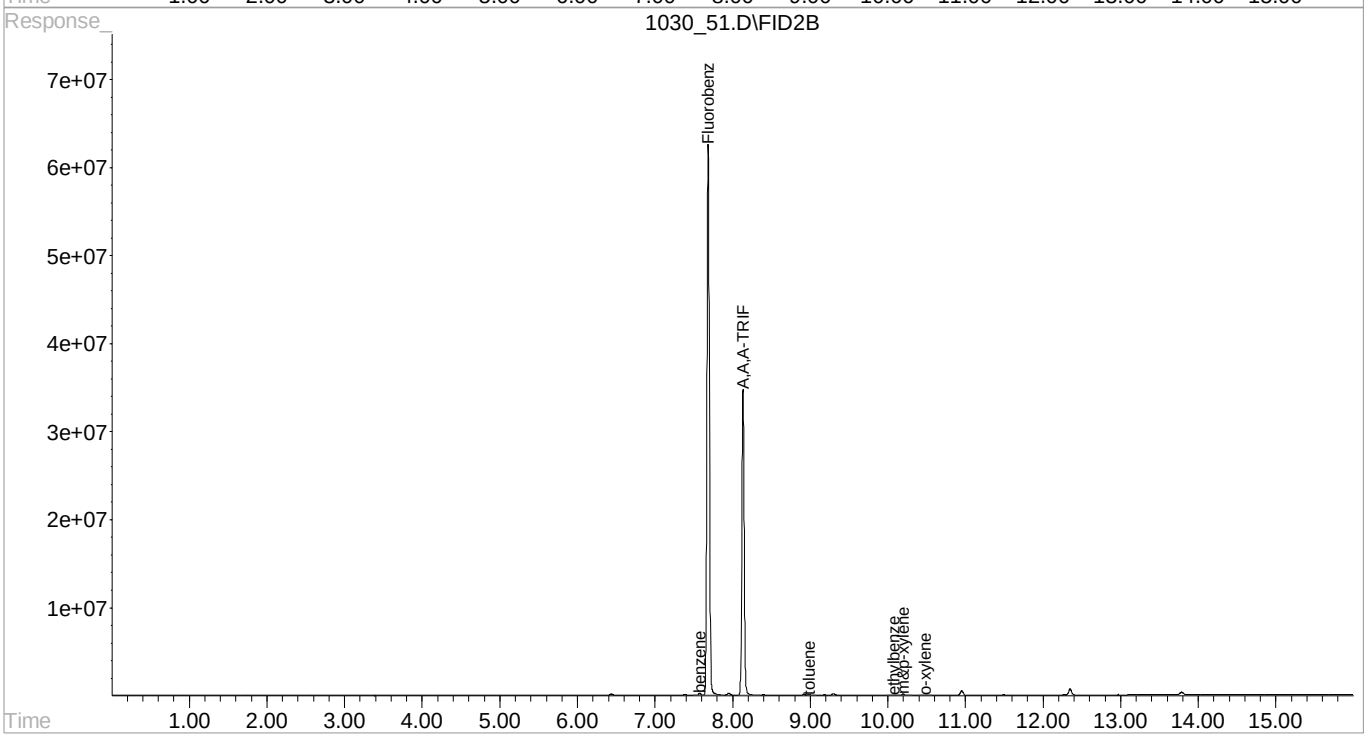
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 51.D\FID1A.CH Vial: 51
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 51.D\FID2B.CH
Acq On : 31 Oct 2014 4:12 am Operator: 621
Sample : L729564-04 25.25x WG750810 GRO Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 25.25
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 14:01 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\103014\1030 52.D\FID1A.CH Vial: 52
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 52.D\FID2B.CH
Acq On : 31 Oct 2014 4:34 am Operator: 621
Sample : L729564-05 19.25x WG750810 GRO Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 19.25
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 14:02 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 :

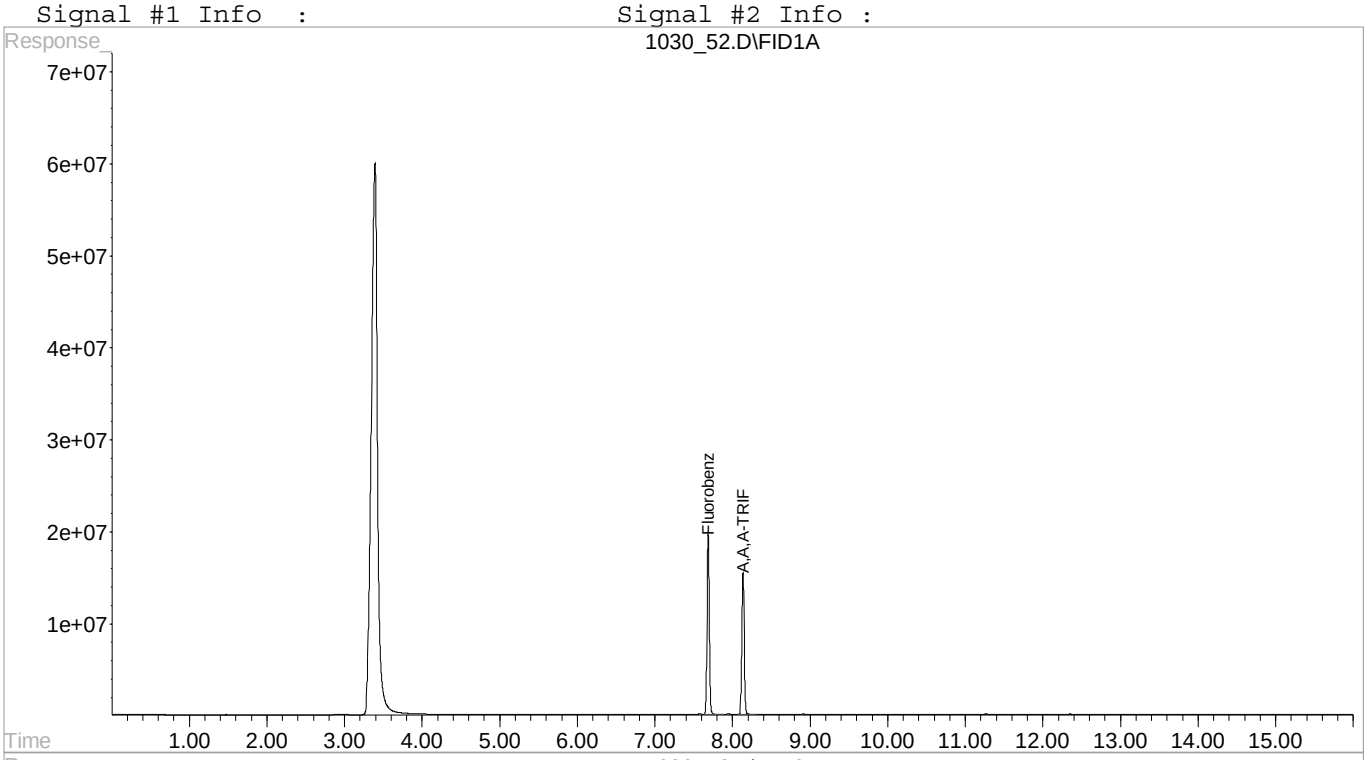
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	405971183	200.0000000	ppb
8) I Fluorobenzene #2	7.68	1310759978	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.13	322474475	198.0451566	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 99.02%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	733212178	213.6200359	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 106.81%		
Target Compounds				
2) H,M TPHG C5 - C12	6.53	46398415	N.D.	ppm
3) H,M TPHG C6 - C12	6.53	42175644	N.D.	ppm
4) H,M TPHGAK C6 to C10	6.53	29966302	N.D.	ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	34352105	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	7.58	5609849	8.8041344	ppb
12) T,M toluene	8.99	2159209	3.4877536	ppb
13) T,M ethylbenzene	10.07	951822	1.7429732	ppb
14) T,M m&p-xylene	10.20	3484894	5.8247077	ppb
15) T,M o-xylene	10.47	858363	1.5881112	ppb

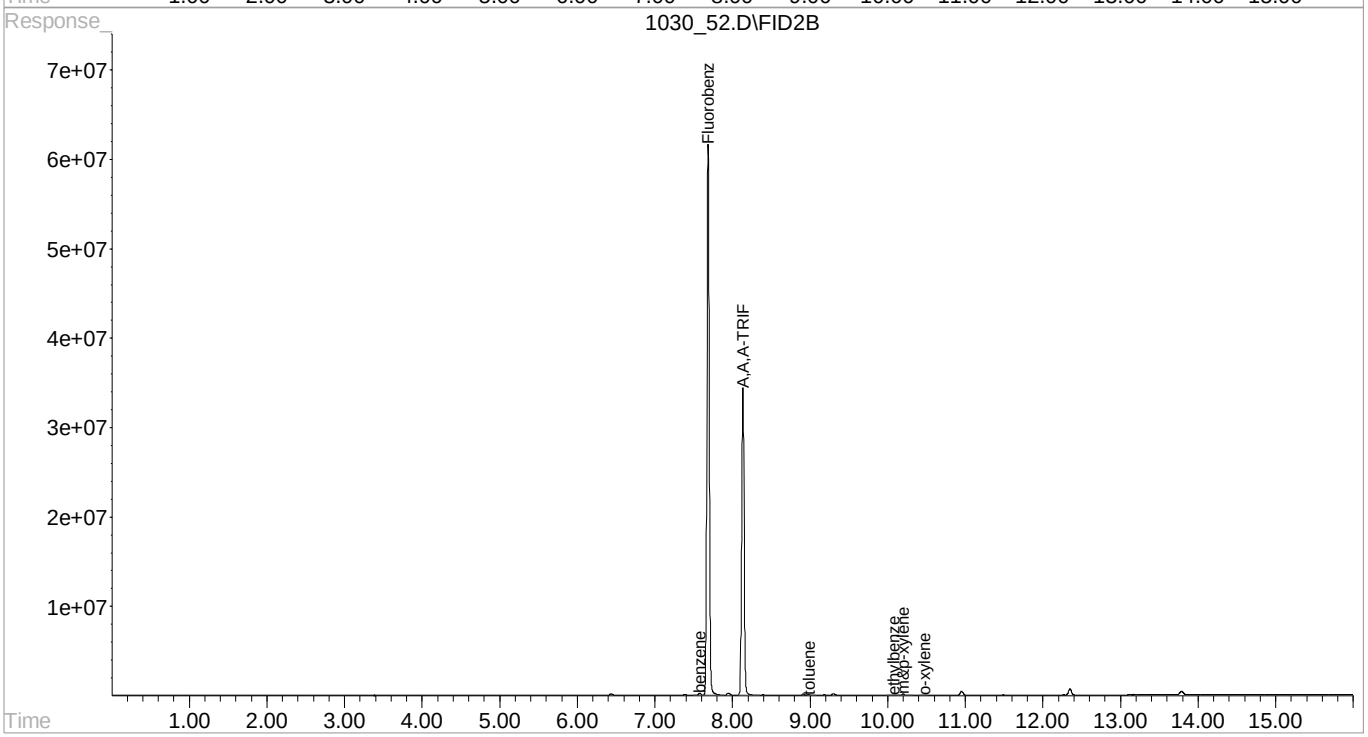
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 52.D\FID1A.CH Vial: 52
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 52.D\FID2B.CH
Acq On : 31 Oct 2014 4:34 am Operator: 621
Sample : L729564-05 19.25x WG750810 GRO Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 19.25
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 14:02 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\103014\1030 55.D\FID1A.CH Vial: 55
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 55.D\FID2B.CH
Acq On : 31 Oct 2014 5:42 am Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:51 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 :

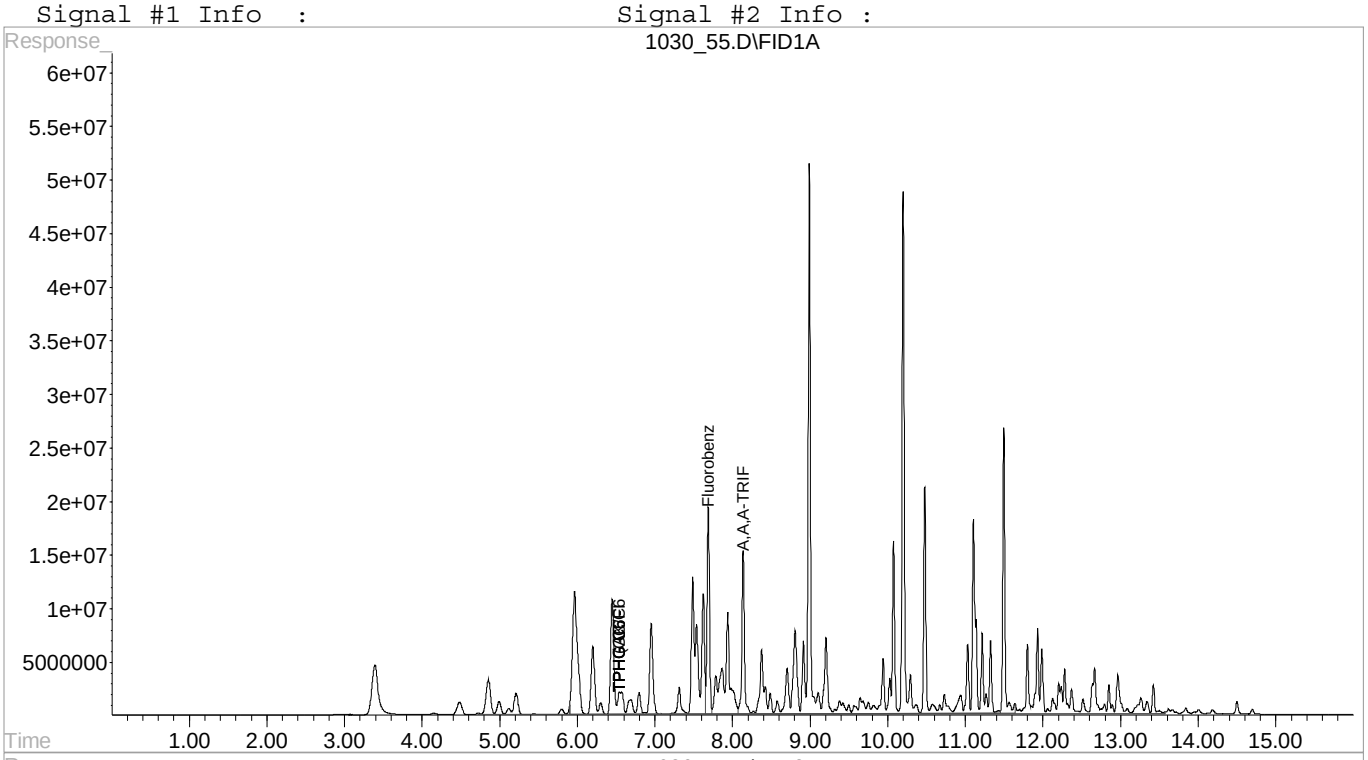
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	407171450	200.0000000 ppb
8) I Fluorobenzene #2	7.68	1308458218	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	364031382	222.9079688 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 111.45%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	8.13	848443145	247.6272145 ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 123.81%	
Target Compounds			
2) H,M TPHG C5 - C12	6.53	10692206519	5.6155971 ppm
3) H,M TPHG C6 - C12	6.53	10412502441	5.6305419 ppm
4) H,M TPHGAK C6 to C10	6.53	8343366332	5.5712253 ppm
5) H,M TPH (GC/FID) Low Fraction	6.53	8861368982	5.5802051 ppm
10) T,M Methyl Tert-Butyl Ether	6.01	566830600	177.1544241 ppb
11) T,M benzene	7.53	795190940	64.9440686 ppb
12) T,M toluene	8.99	3313710386	278.5469010 ppb
13) T,M ethylbenzene	10.07	1034932132	98.6233154 ppb
14) T,M m&p-xylene	10.20	3388387149	294.7203817 ppb
15) T,M o-xylene	10.47	1279459359	123.1882015 ppb

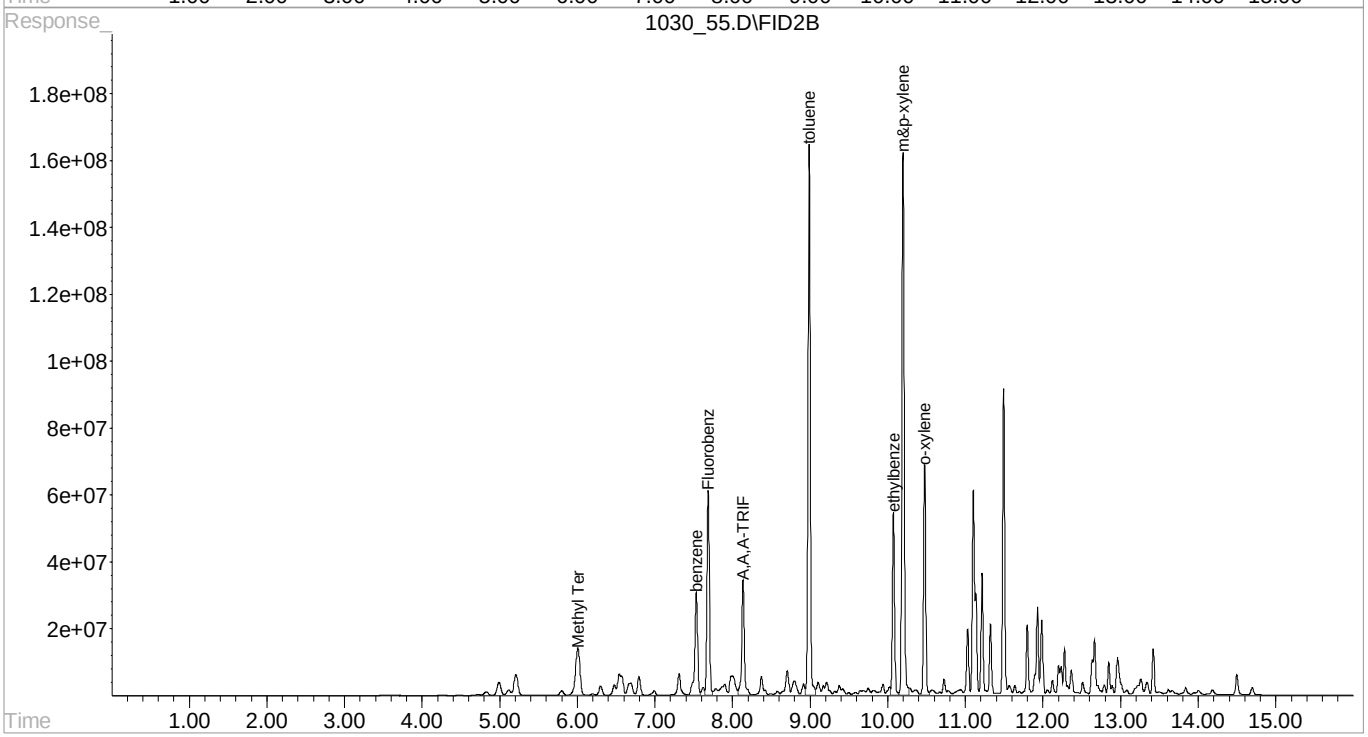
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 55.D\FID1A.CH Vial: 55
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 55.D\FID2B.CH
Acq On : 31 Oct 2014 5:42 am Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC10
Misc : soil ISURIS14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS3.E IntFile Signal #2: EVENTS2.E
Quant Time: Oct 31 13:51 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 : VOCGC7
Computer Name : NANCYM7
Released By : Nancy McLain
Date Released : 12/5/2014 9:22:38 AM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1030_01	INSTBLK	BG07I09N						1	1	10/30/14 0756	"water ISSURR14F10114"
2	1030_02	RT	BG07I09N						1	1	10/30/14 0822	"water ISSURR14F10114"
3	1030_03	ICV GRO 5.5G PPM 14J27632	BG07I09N						1	1	10/30/14 0847	"water ISSURR14F10114"
4	1030_04	LCSGRO	BG07I09N	WG750792	GRO	GW			1	1	10/30/14 0912	"water ISSURR14F10114/SPK14J27633"
5	1030_05	LCSDGRO	BG07I09N	WG750792	GRO	GW			1	1	10/30/14 0937	"water ISSURR14F10114/SPK14J27633"
6	1030_06	DNRMSGRO	BG07I09N	WG750792					1	1	10/30/14 1010	"water ISSURR14F10114/SPK14J27633"
7	1030_07	DNRMSDGRO	BG07I09N	WG750792					1	1	10/30/14 1035	"water ISSURR14F10114/SPK14J27633"
8	1030_08	INSTBLK	BG07I09N						1	1	10/30/14 1100	"water ISSURR14F10114"
9	1030_09	BLANK	BG07I09N	WG750792	GRO	GW			1	1	10/30/14 1125	"water ISSURR14F10114"
10	1030_10	L729613-01	BG07I09N	WG750792	GROWY	GW	DELTANCO	WY	1	1	10/30/14 1203	"water ISSURR14F10114"
11	1030_11	L729561-07	BG07I09N	WG750792	GRO	GW	URSTAZ	AZ	1	1	10/30/14 1228	"water ISSURR14F10114"
12	1030_12	L729642-01	BG07I09N	WG750792	GRO	GW	EESINC	IL	1	1	10/30/14 1253	"water ISSURR14F10114"
13	1030_13	L730147-25	BG07I09N	WG751357	GRO	GW	URSTAZ	AZ	1	1	10/30/14 1318	"water ISSURR14F10114"
14	1030_14	MSGRO	BG07I09N	WG751357	GRO	GW			1	1	10/30/14 1343	"water ISSURR14F10114/SPK14J27633"
15	1030_15	MSDGRO	BG07I09N	WG751357	GRO	GW			1	1	10/30/14 1408	"water ISSURR14F10114/SPK14J27633"
16	1030_16	INSTBLK	BG07I09N						1	1	10/30/14 1433	"water ISSURR14F10114"
17	1030_17	MSGRO	BG07I09N	WG750792	GRO	GW			1	1	10/30/14 1458	"water ISSURR14F10114/SPK14J27633"
18	1030_18	MSDGRO	BG07I09N	WG750792	GRO	GW			1	1	10/30/14 1523	"water ISSURR14F10114/SPK14J27633"
19	1030_19	INSTBLK	BG07I09N						1	1	10/30/14 1600	"water ISSURR14F10114"
20	1030_20	L729564-03	BG07I09N	WG750792	GRO	GW	URSTAZ	AZ	1	1	10/30/14 1625	"water ISSURR14F10114"
21	1030_21	L729566-04	BG07I09N	WG750792	GRO	GW	URSTAZ	AZ	1	1	10/30/14 1650	"water ISSURR14F10114"
22	1030_22	L729568-03	BG07I09N	WG750792	GRO	GW	URSTAZ	AZ	1	1	10/30/14 1715	"water ISSURR14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : NANCYM7
Released By : Nancy McLain
Date Released : 12/5/2014 9:22:38 AM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1030_23	L729561-02	BG07I09N	WG750792	GRO	GW	URSTAZ	AZ	1	1	10/30/14 1739	"water ISSURR14F10114"
24	1030_24	L729561-04	BG07I09N	WG750792	GRO	GW	URSTAZ	AZ	1	1	10/30/14 1804	"water ISSURR14F10114"
25	1030_25	L729561-06	BG07I09N	WG750792	GRO	GW	URSTAZ	AZ	1	1	10/30/14 1829	"water ISSURR14F10114"
26	1030_26	DNR L729607-01	BG07I09N	WG750792					500	500	10/30/14 1854	"water ISSURR14F10114"
27	1030_27	INSTBLK	BG07I09N						1	1	10/30/14 1919	"water ISSURR14F10114"
28	1030_28	RT	BG07I09N						1	1	10/30/14 1944	"water ISSURR14F10114"
29	1030_29	CCV GRO 5.5G PPM 14J27632	BG07I09N						1	1	10/30/14 2009	"water ISSURR14F10114"
30	1030_30	INSTBLK	BG07I09N						1	1	10/30/14 2045	"water ISSURR14F10114"
31	1030_32	L729627-08	BG07I09N	WG750792	GRO	GW	CRATOK	KS	1	1	10/30/14 2109	"water ISSURR14F10114"
32	1030_33	L729607-02	BG07I09N	WG750792	GROWY	GW	DELTANCO	WY	20	20	10/30/14 2134	"water ISSURR14F10114"
33	1030_34	L729613-02	BG07I09N	WG750792	GROWY	GW	DELTANCO	WY	1	1	10/30/14 2159	"water ISSURR14F10114"
34	1030_35	L729627-01	BG07I09N	WG750792					20	20	10/30/14 2224	"water ISSURR14F10114"
35	1030_36	L729627-02	BG07I09N	WG750792	GRO	GW	CRATOK	KS	1	1	10/30/14 2249	"water ISSURR14F10114"
36	1030_37	L729627-03	BG07I09N	WG750792					1	1	10/30/14 2314	"water ISSURR14F10114"
37	1030_38	L729627-04	BG07I09N	WG750792	GRO	GW	CRATOK	KS	25	25	10/30/14 2339	"water ISSURR14F10114"
38	1030_39	L729627-05	BG07I09N	WG750792	GRO	GW	CRATOK	KS	100	100	10/31/14 0004	"water ISSURR14F10114"
39	1030_40	L729627-06	BG07I09N	WG750792	GRO	GW	CRATOK	KS	100	100	10/31/14 0029	"water ISSURR14F10114"
40	1030_41	L729627-07	BG07I09N	WG750792					50	50	10/31/14 0054	"water ISSURR14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 03.D\FID2B.CH
Acq On : 30 Oct 2014 8:47 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 14:19 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	18070735	200.0000000	ppb
9) I Fluorobenzene #2	8.90	11307421	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	16311472	231.1498273	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 115.57%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	7573724	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	13604	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	470636892	5.4469963	ppm
4) H,M TPHG C6 - C12	8.61	457113799	5.4450740	ppm
5) H,M TPHGAK C6 to C10	8.61	361208155	5.4699675	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	385737053	5.4651431	ppm
11) T,M Methyl Tert-Butyl Ether	6.88	5147543	NoCal	ppb
12) T,M benzene	8.72	7028439	NoCal	ppb
13) T,M toluene	10.60	27700892	NoCal	ppb
14) T,M ethylbenzene	12.09	8063599	NoCal	ppb
15) T,M m&p-xylene	12.26	29434197	NoCal	ppb
16) T,M o-xylene	12.66	10418287	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	6160562	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	15931631	NoCal	ppb
19) T,M Naphthalene	17.37	191302	NoCal	ppb

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\103014\1030 03.D\FID1A.CH   Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 03.D\FID2B.CH
Acq On    : 30 Oct 2014   8:47 am                    Operator: 621
Sample    : ICV GRO 5.5g ppm 14J27632                Inst    : VOCGC7
Misc      : water ISSURR14F10114                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 14:19 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
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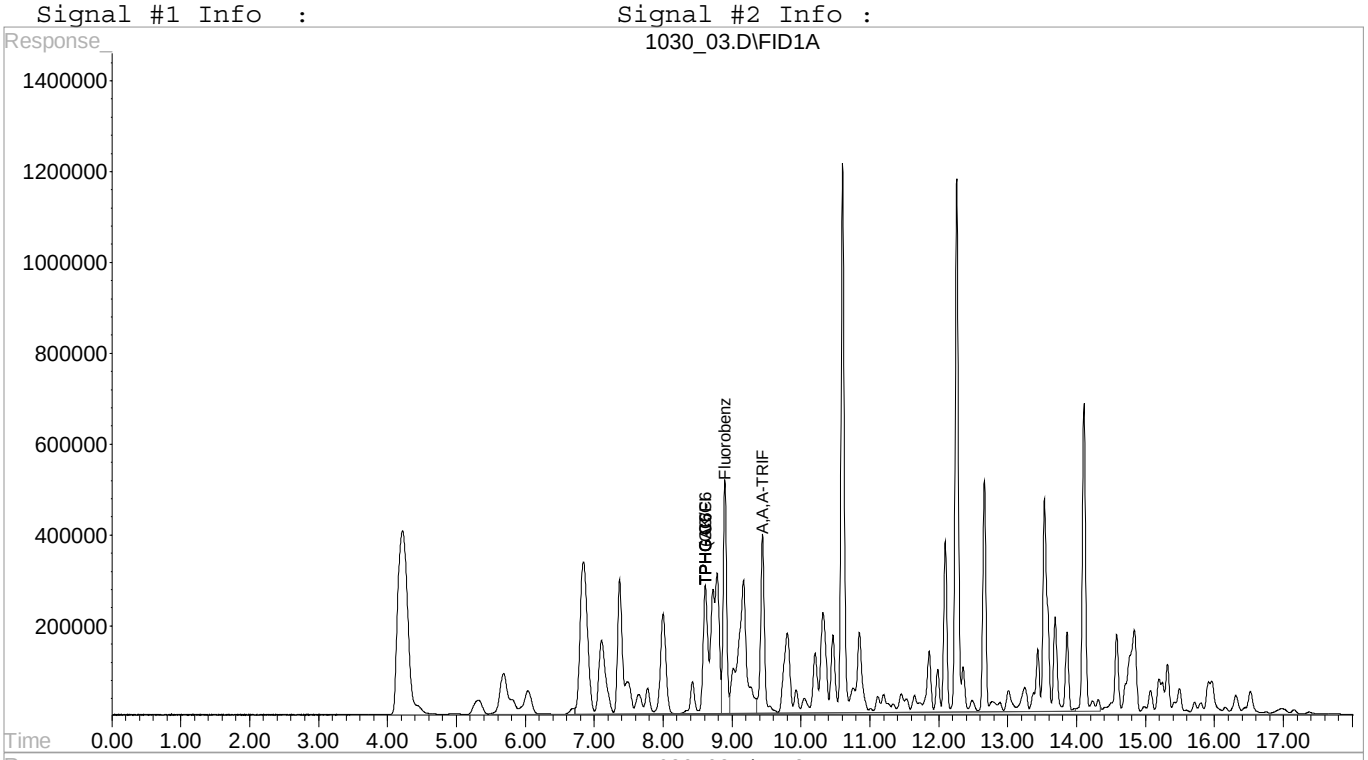
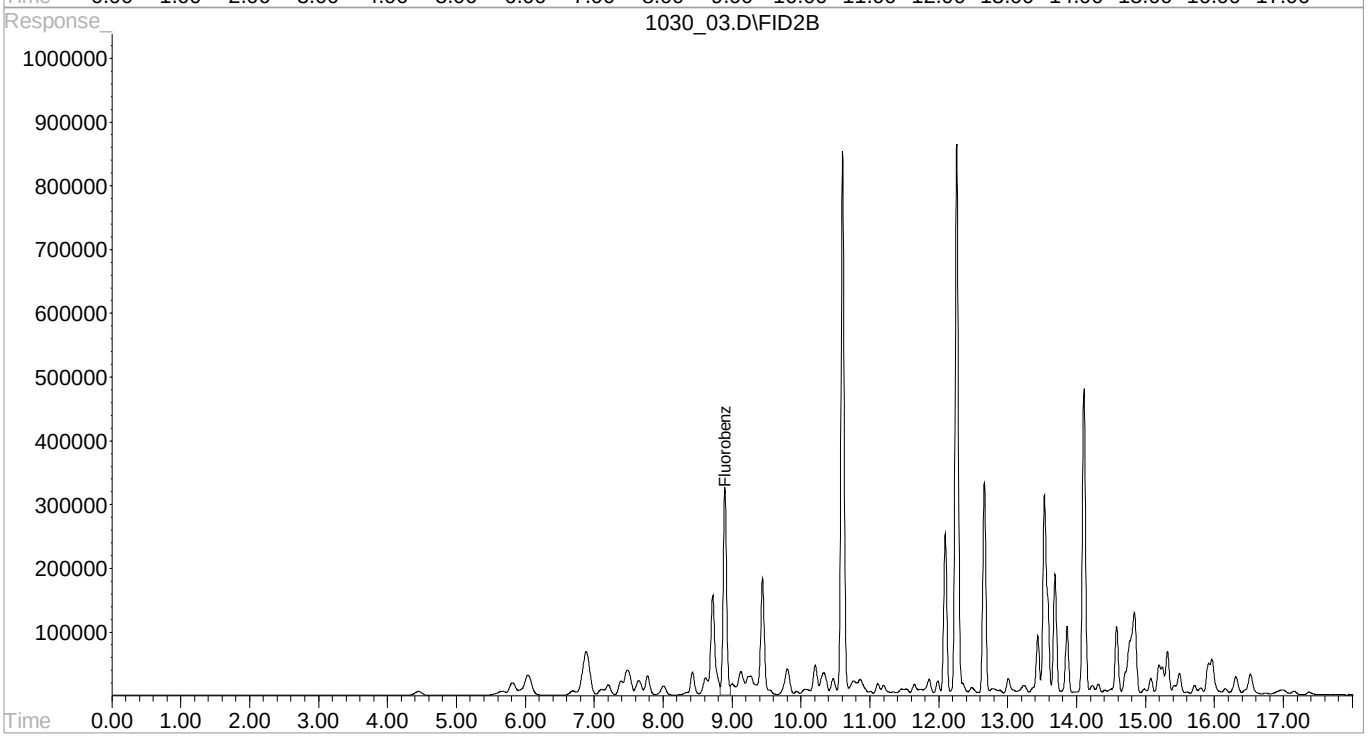




Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 04.D\FID2B.CH
Acq On : 30 Oct 2014 9:12 am Operator: 621
Sample : LCSGRO 1x WG750792 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 14:19 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

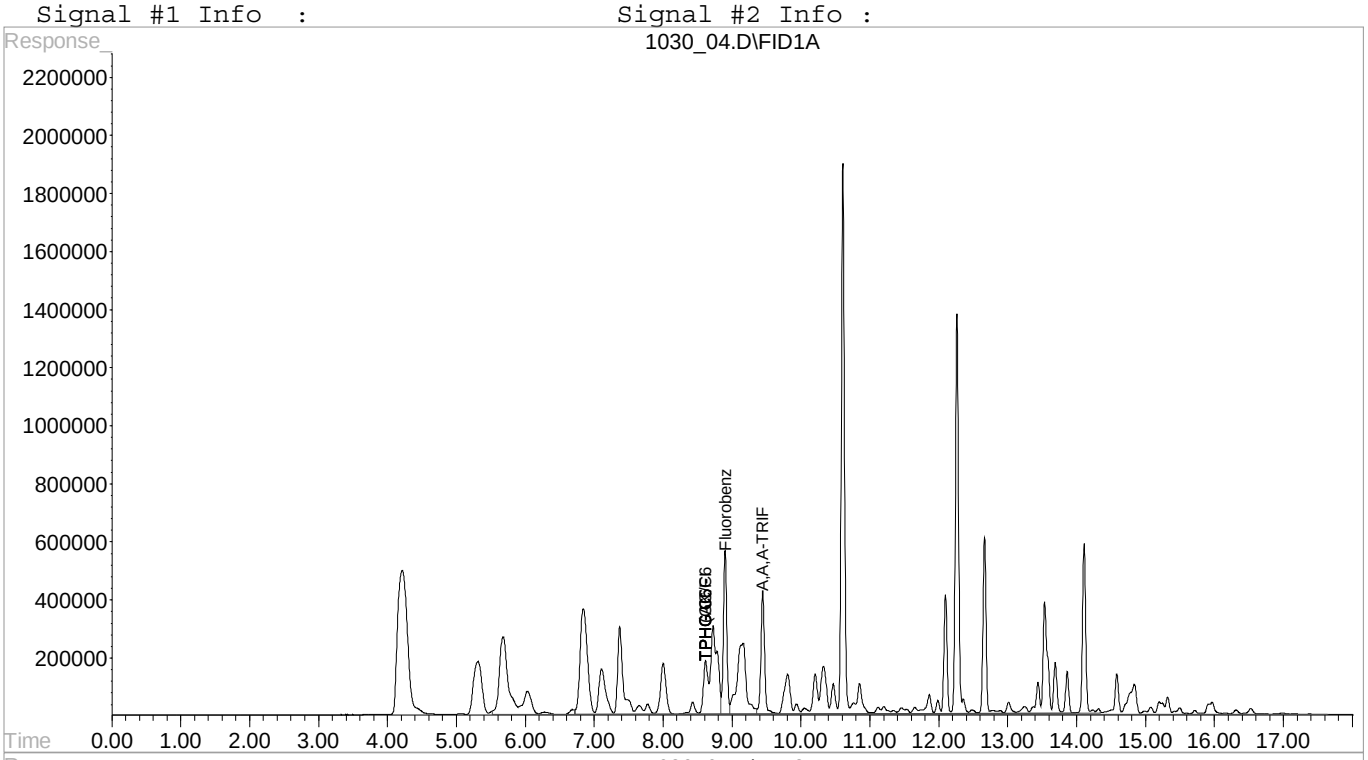
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

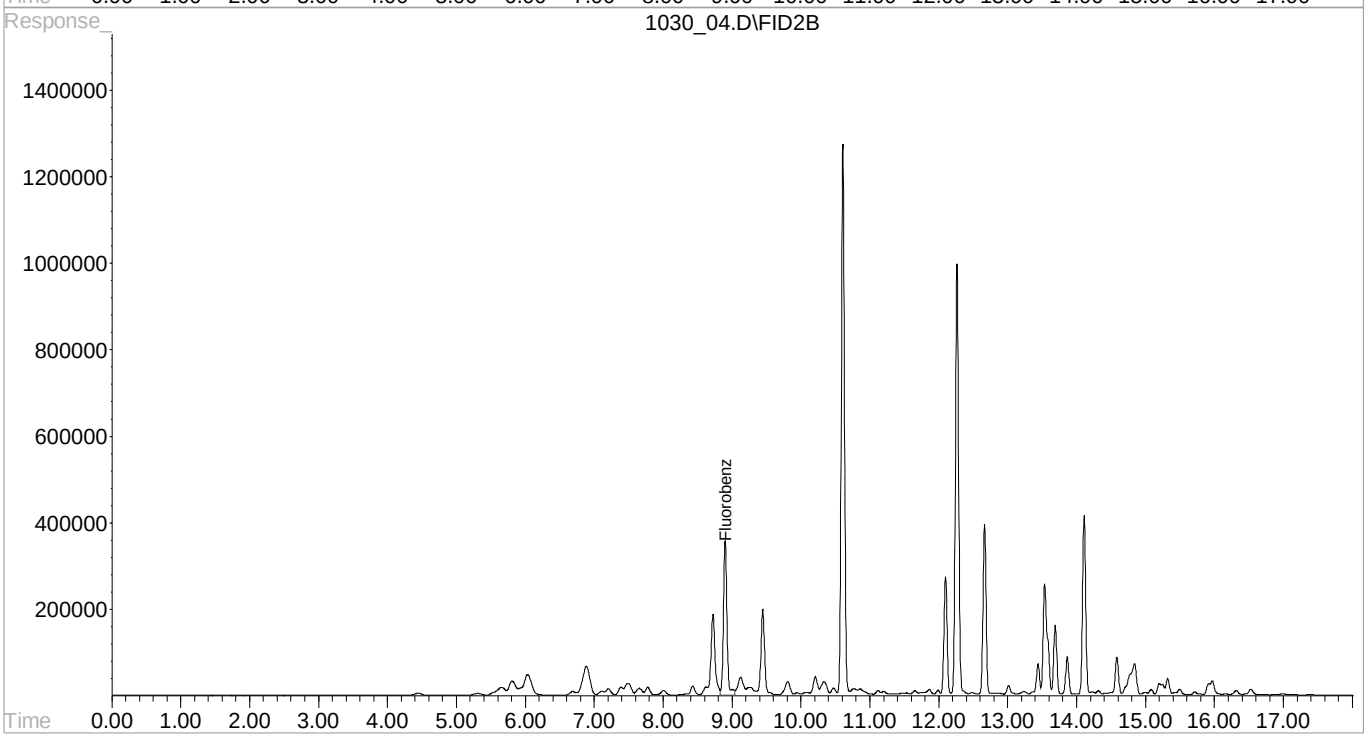
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	19532909	200.0000000	ppb
9) I Fluorobenzene #2	8.90	12803085	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	16489606	216.1820287	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 108.09%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7752642	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	16488	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	435401229	4.6619720	ppm
4) H,M TPHG C6 - C12	8.61	403266624	4.4440674	ppm
5) H,M TPHGAK C6 to C10	8.61	341819548	4.7888694	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	362019627	4.7451636	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	5105926	NoCal	ppb
12) T,M benzene	8.72	8645047	NoCal	ppb
13) T,M toluene	10.61	41529650	NoCal	ppb
14) T,M ethylbenzene	12.10	8673436	NoCal	ppb
15) T,M m&p-xylene	12.27	33599481	NoCal	ppb
16) T,M o-xylene	12.67	12325762	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	5210469	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	13568195	NoCal	ppb
19) T,M Naphthalene	17.38	70331	NoCal	ppb

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 04.D\FID2B.CH
Acq On : 30 Oct 2014 9:12 am Operator: 621
Sample : LCSGRO 1x WG750792 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 14:19 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 05.D\FID2B.CH
Acq On : 30 Oct 2014 9:37 am Operator: 621
Sample : LCSDGRO 1x WG750792 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 14:19 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

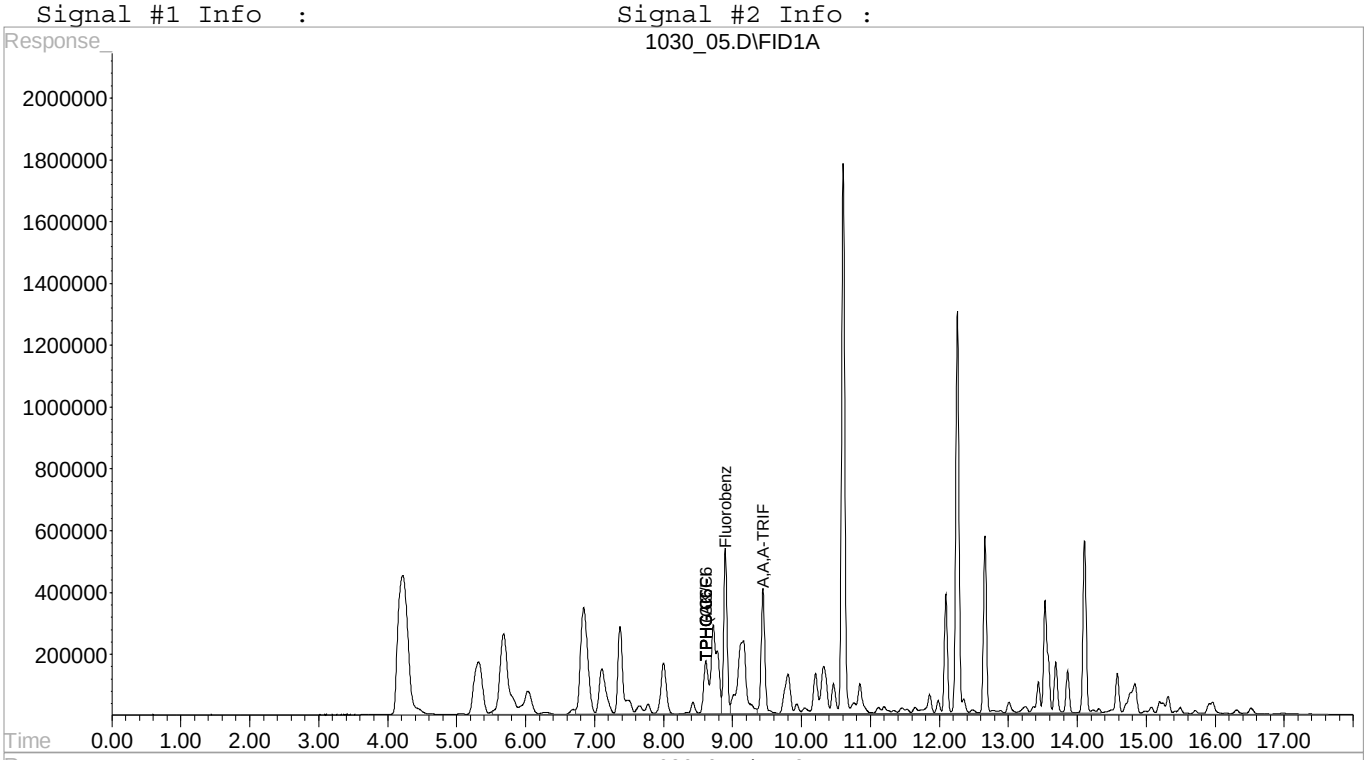
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	18566154	200.0000000	ppb
9) I Fluorobenzene #2	8.90	12054810	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	15662512	216.0308081	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 108.02%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	7310196	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	15006	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	410281355	4.6217533	ppm
4) H,M TPHG C6 - C12	8.61	380046365	4.4062578	ppm
5) H,M TPHGAK C6 to C10	8.61	321352630	4.7365587	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	340631931	4.6973119	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	4812989	NoCal	ppb
12) T,M benzene	8.72	8046912	NoCal	ppb
13) T,M toluene	10.61	39174117	NoCal	ppb
14) T,M ethylbenzene	12.10	8163970	NoCal	ppb
15) T,M m&p-xylene	12.26	31834722	NoCal	ppb
16) T,M o-xylene	12.66	11664397	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	4927070	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	12902043	NoCal	ppb
19) T,M Naphthalene	17.38	61586	NoCal	ppb

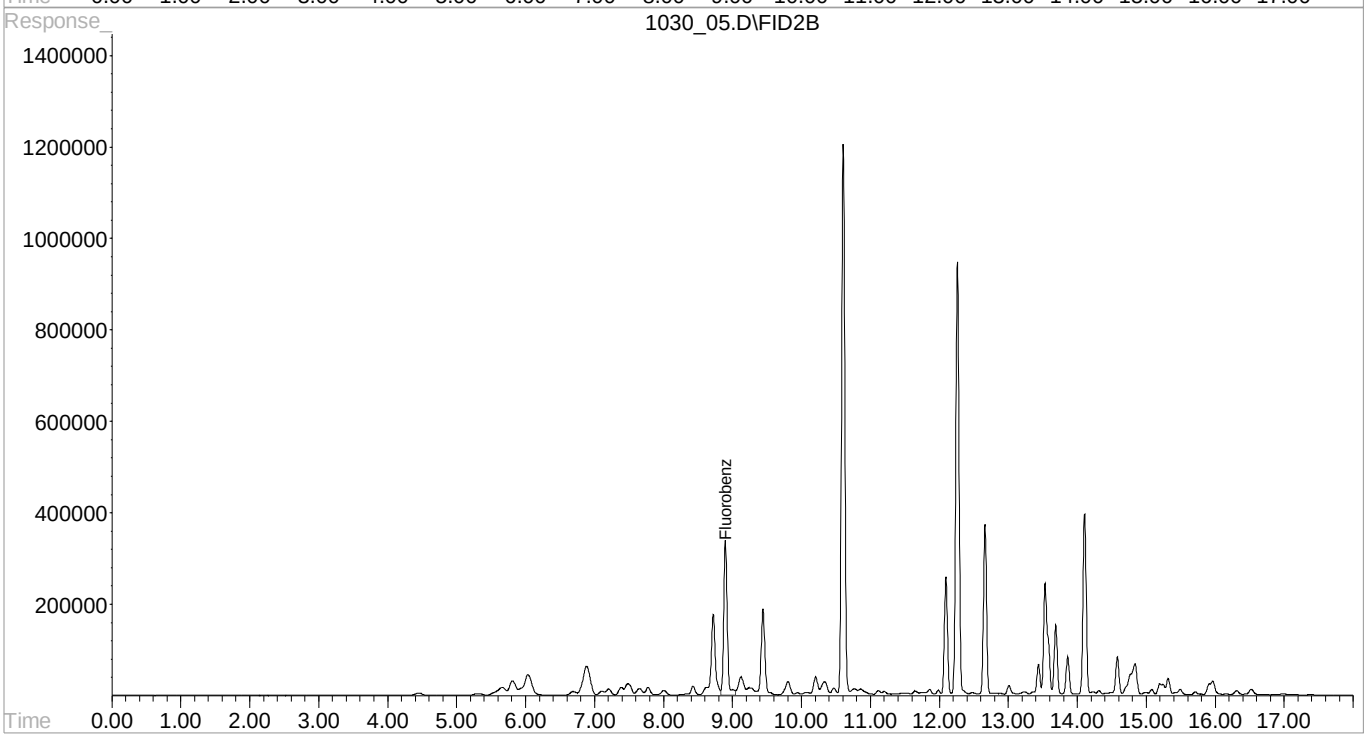
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 05.D\FID2B.CH
Acq On : 30 Oct 2014 9:37 am Operator: 621
Sample : LCSDGRO 1x WG750792 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 14:19 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 09.D\FID2B.CH
Acq On : 30 Oct 2014 11:25 am Operator: 621
Sample : BLANK 1x WG750792 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 14:20 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

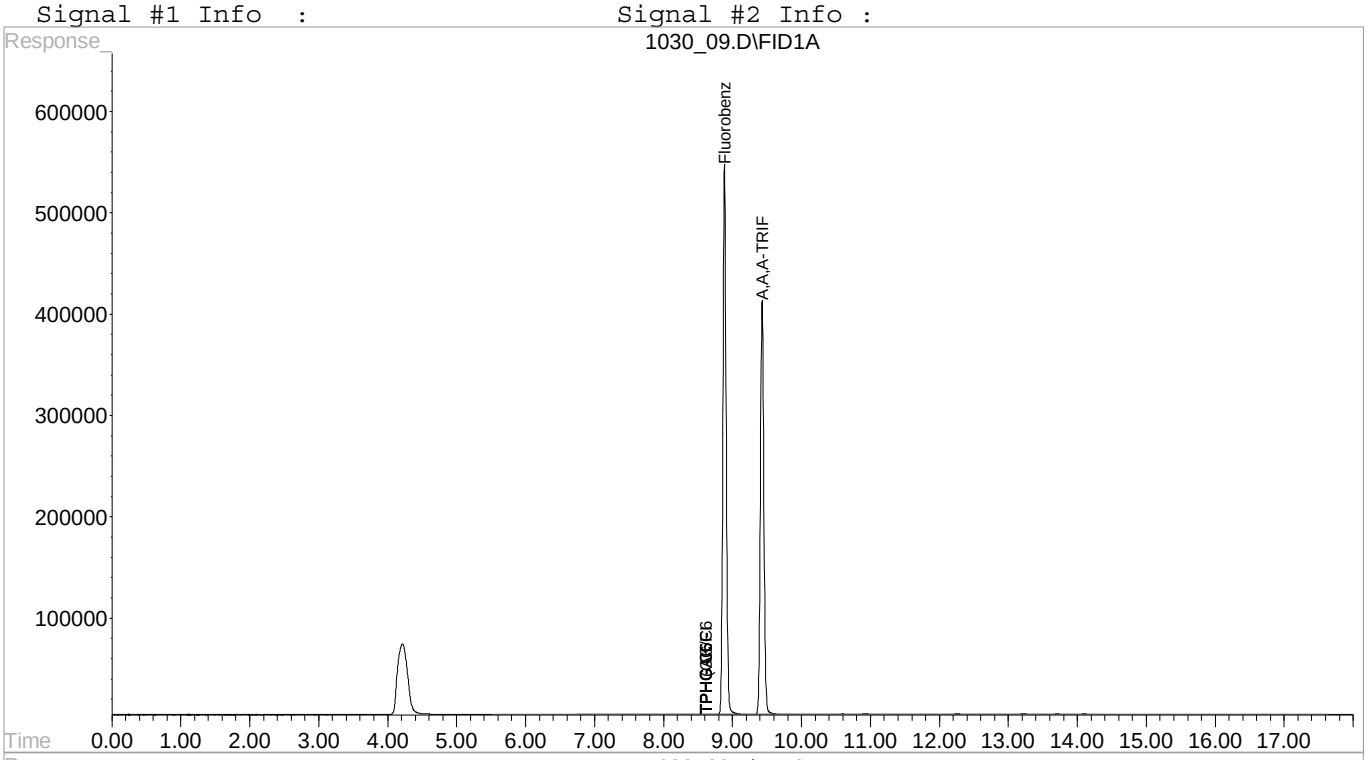
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	18211606	200.0000000	ppb
9) I Fluorobenzene #2	8.89	11318553	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.43	14347630	201.7474967	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 100.87%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.43	6540998	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	14929	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	1315963	0.0151127	ppm
4) H,M TPHG C6 - C12	8.61	1181163	0.0139610	ppm
5) H,M TPHGAK C6 to C10	8.61	622928	0.0093604	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	685510	0.0096372	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	0.00	0	N.D.	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.26	31082	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	14.10	16905	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

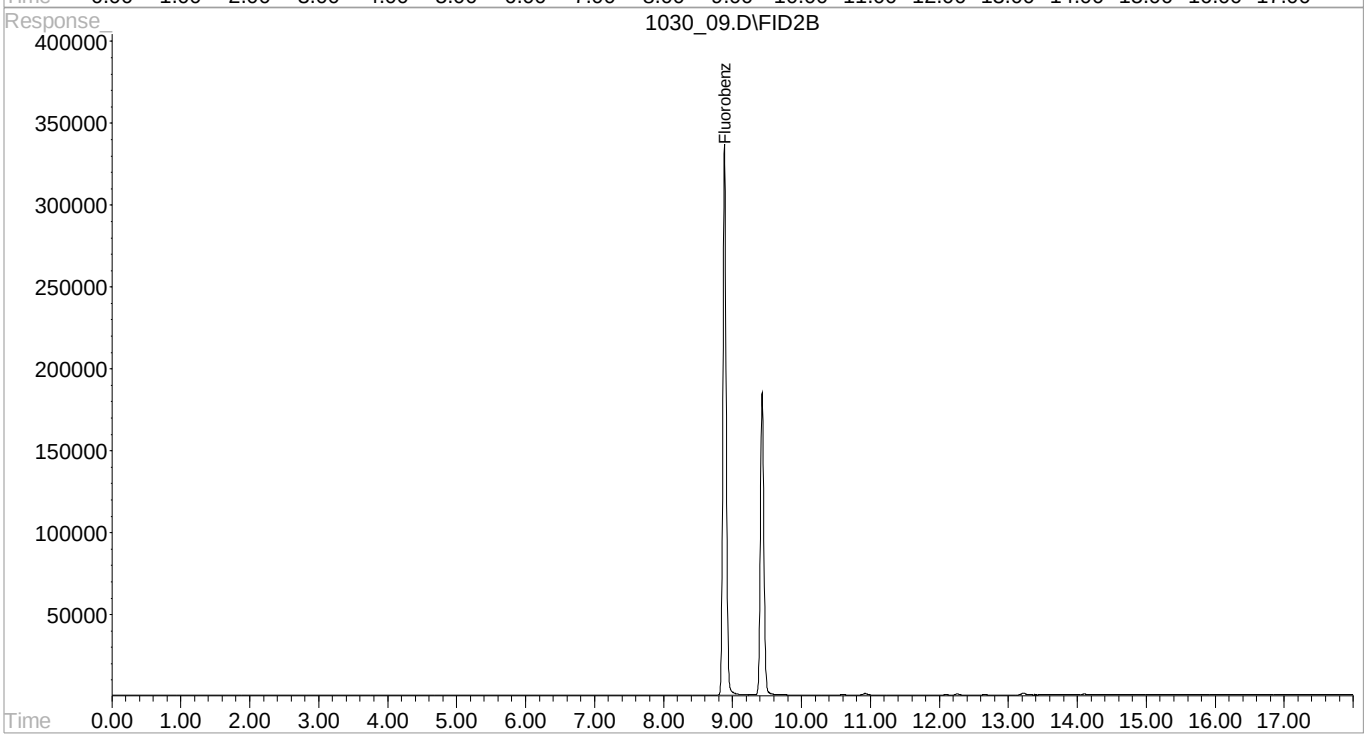
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 09.D\FID2B.CH
Acq On : 30 Oct 2014 11:25 am Operator: 621
Sample : BLANK 1x WG750792 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 14:20 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 17.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 17.D\FID2B.CH
Acq On : 30 Oct 2014 2:58 pm Operator: 621
Sample : MSGRO 1x WG750792 L729613-01 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 15:32 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

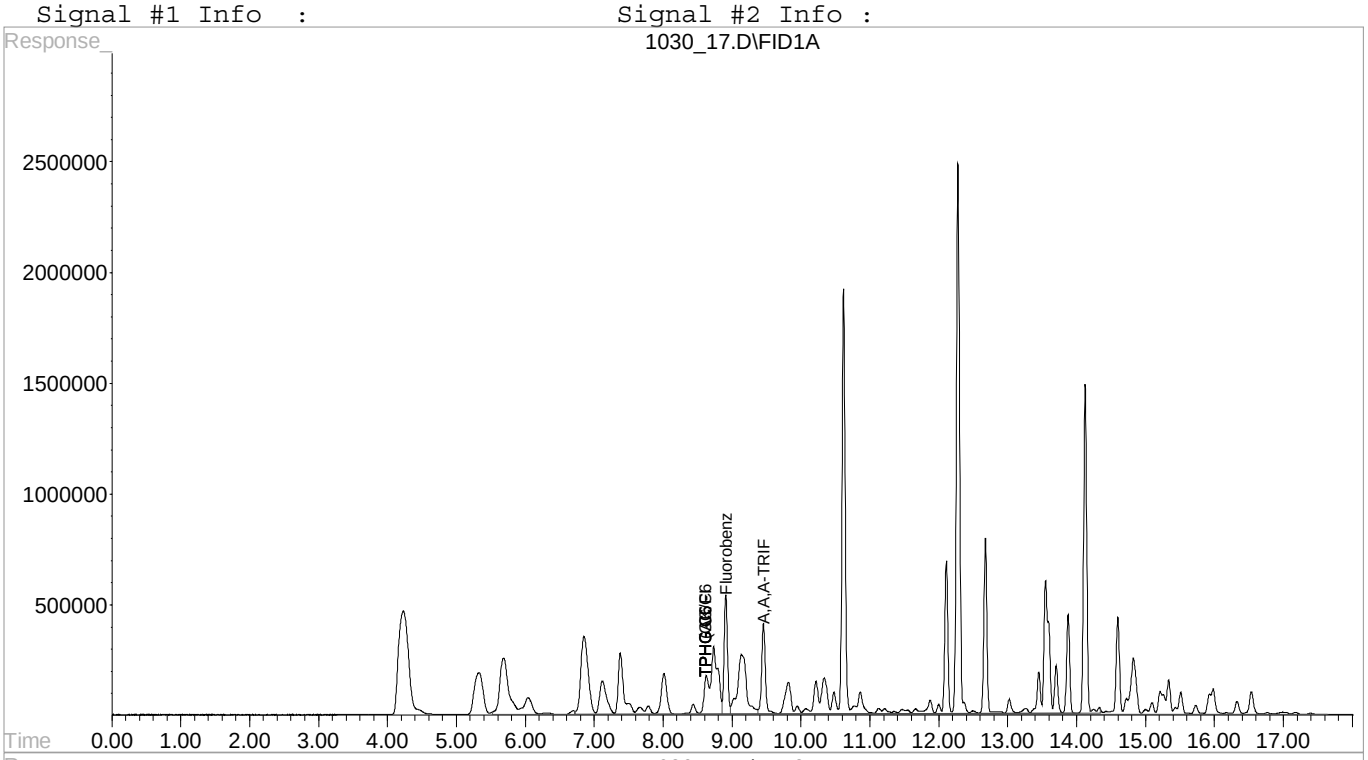
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	18853264	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12257821	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	16152732	219.3995170	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 109.70%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	7489033	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	24186	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	585464105	6.4947234	ppm
4) H,M TPHG C6 - C12	8.61	554337477	6.3291148	ppm
5) H,M TPHGAK C6 to C10	8.61	420333663	6.1011352	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	469388977	6.3742976	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	4719322	NoCal	ppb
12) T,M benzene	8.73	8374588	NoCal	ppb
13) T,M toluene	10.62	41828711	NoCal	ppb
14) T,M ethylbenzene	12.11	14369450	NoCal	ppb
15) T,M m&p-xylene	12.28	55310690	NoCal	ppb
16) T,M o-xylene	12.68	15751330	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	6332507	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	32151859	NoCal	ppb
19) T,M Naphthalene	17.39	261838	NoCal	ppb

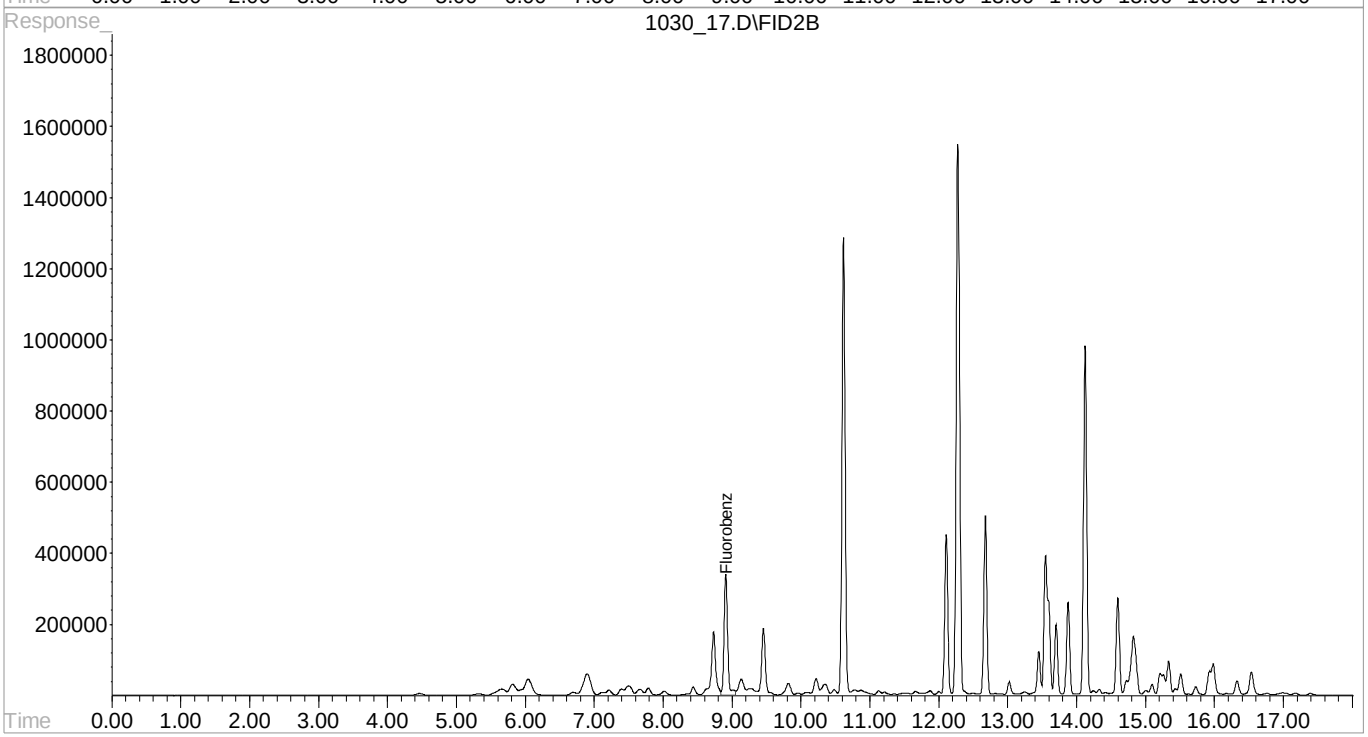
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 17.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 17.D\FID2B.CH
Acq On : 30 Oct 2014 2:58 pm Operator: 621
Sample : MSGRO 1x WG750792 L729613-01 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 15:32 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 18.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 18.D\FID2B.CH
Acq On : 30 Oct 2014 3:23 pm Operator: 621
Sample : MSDGRO 1x WG750792 L729613-01 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 15:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

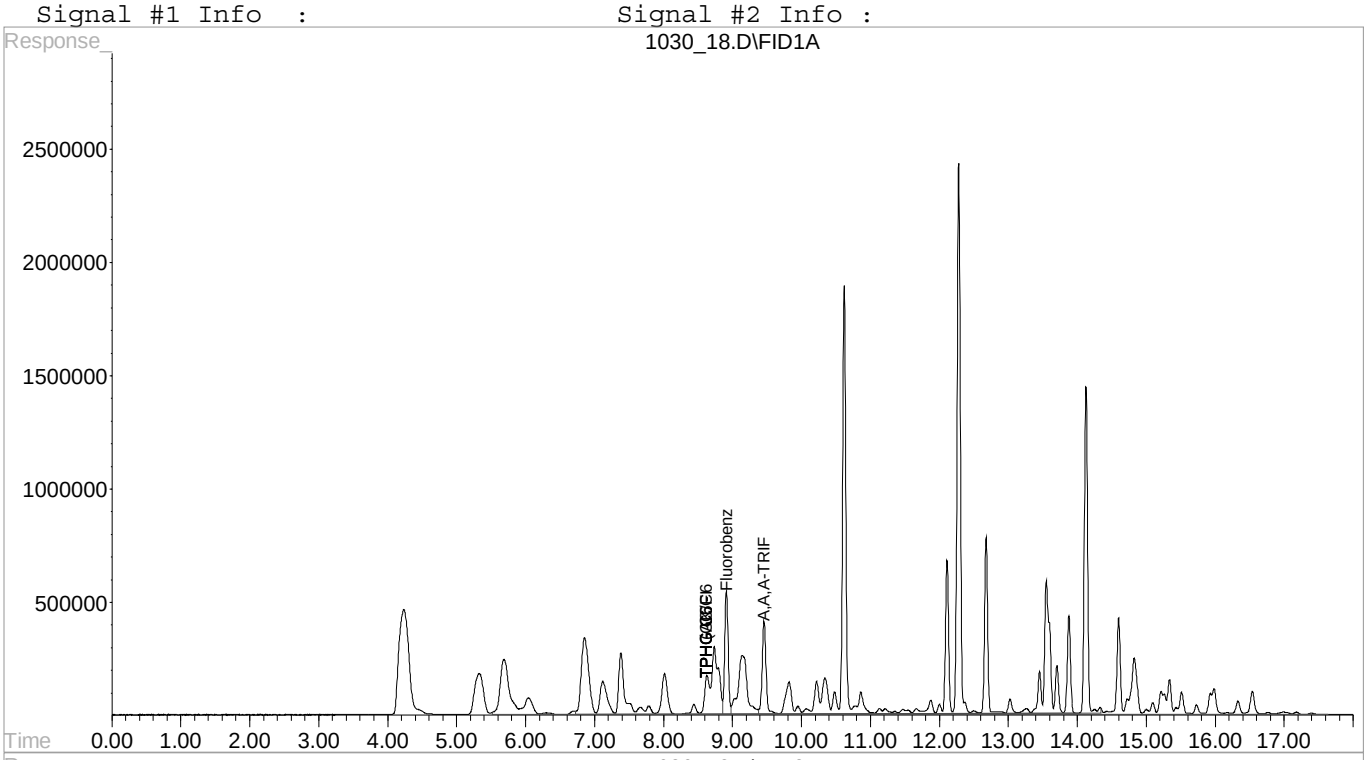
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	19042366	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12296364	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	16311267	219.3527109	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 109.68%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	7526088	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	13325	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	572468468	6.2874942	ppm
4) H,M TPHG C6 - C12	8.61	542148398	6.1284769	ppm
5) H,M TPHGAK C6 to C10	8.61	411027151	5.9068049	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	458713288	6.1674610	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	4534213	NoCal	ppb
12) T,M benzene	8.74	8134009	NoCal	ppb
13) T,M toluene	10.62	41091164	NoCal	ppb
14) T,M ethylbenzene	12.11	13984398	NoCal	ppb
15) T,M m&p-xylene	12.28	53591984	NoCal	ppb
16) T,M o-xylene	12.68	15344016	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	6167223	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.13	31188207	NoCal	ppb
19) T,M Naphthalene	17.39	269213	NoCal	ppb

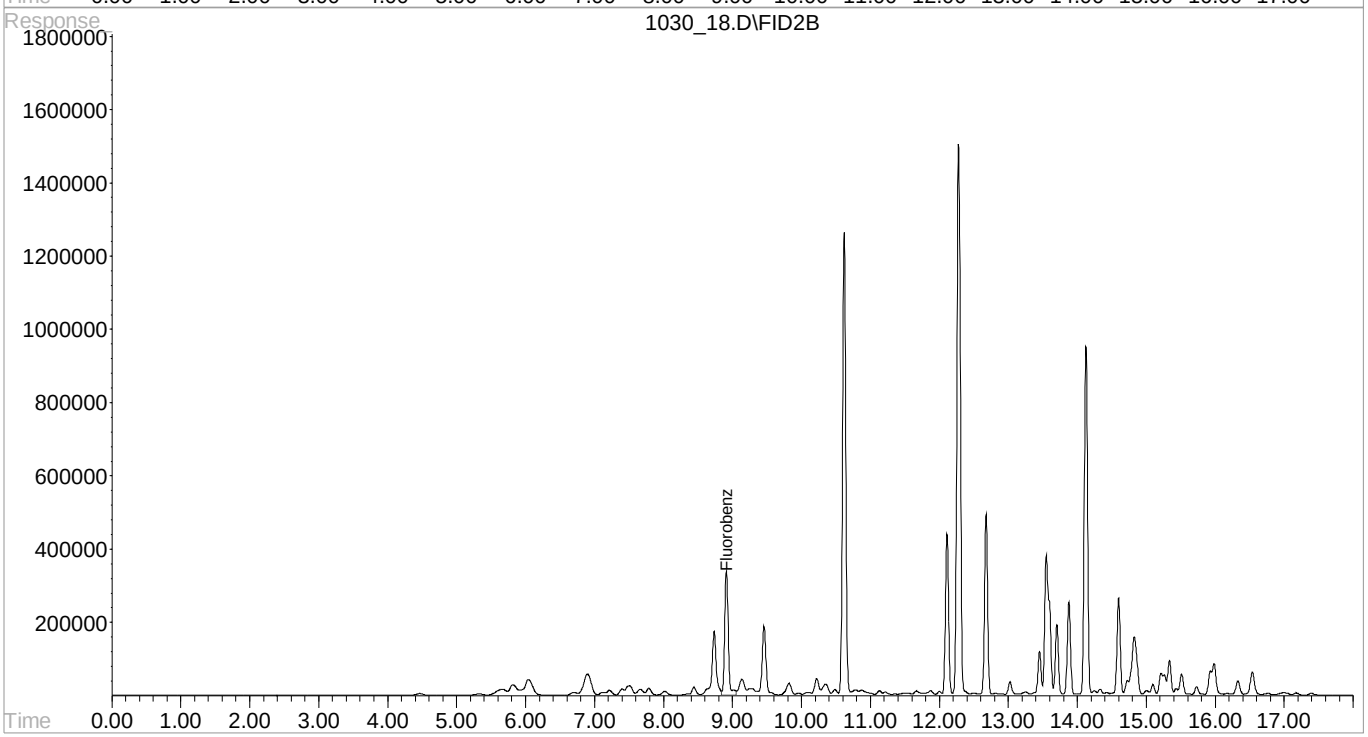
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 18.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 18.D\FID2B.CH
Acq On : 30 Oct 2014 3:23 pm Operator: 621
Sample : MSDGRO 1x WG750792 L729613-01 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 15:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 20.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 20.D\FID2B.CH
Acq On : 30 Oct 2014 4:25 pm Operator: 621
Sample : L729564-03 1x WG750792 GRO tb Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 12:40 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

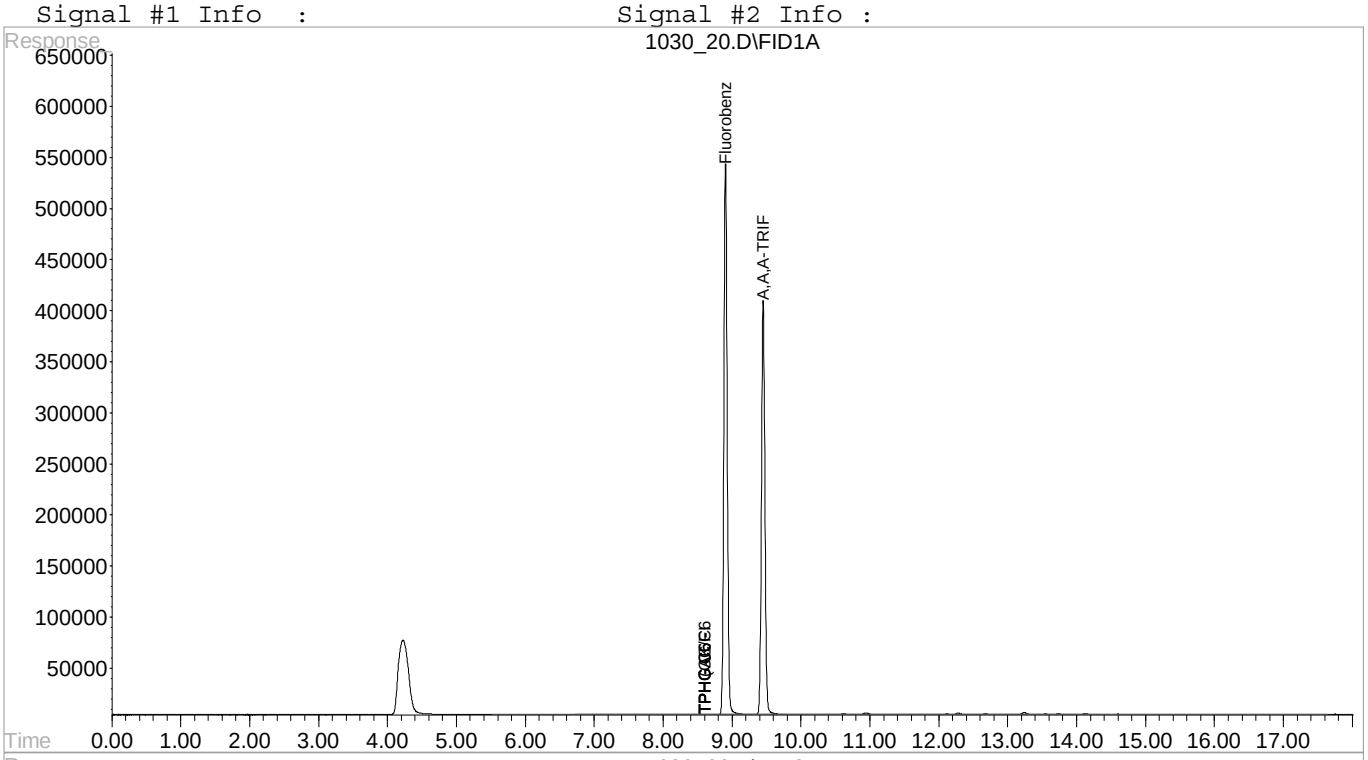
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	18171735	200.0000000	ppb
9) I Fluorobenzene #2	8.91	11202298	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14259677	200.9506907	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 100.48%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	6452555	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	11938	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	1518435	0.0174762	ppm
4) H,M TPHG C6 - C12	8.61	1463358	0.0173344	ppm
5) H,M TPHGAK C6 to C10	8.61	880612	0.0132615	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	949742	0.0133812	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	10.62	21388	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.28	43814	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	14.13	19611	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

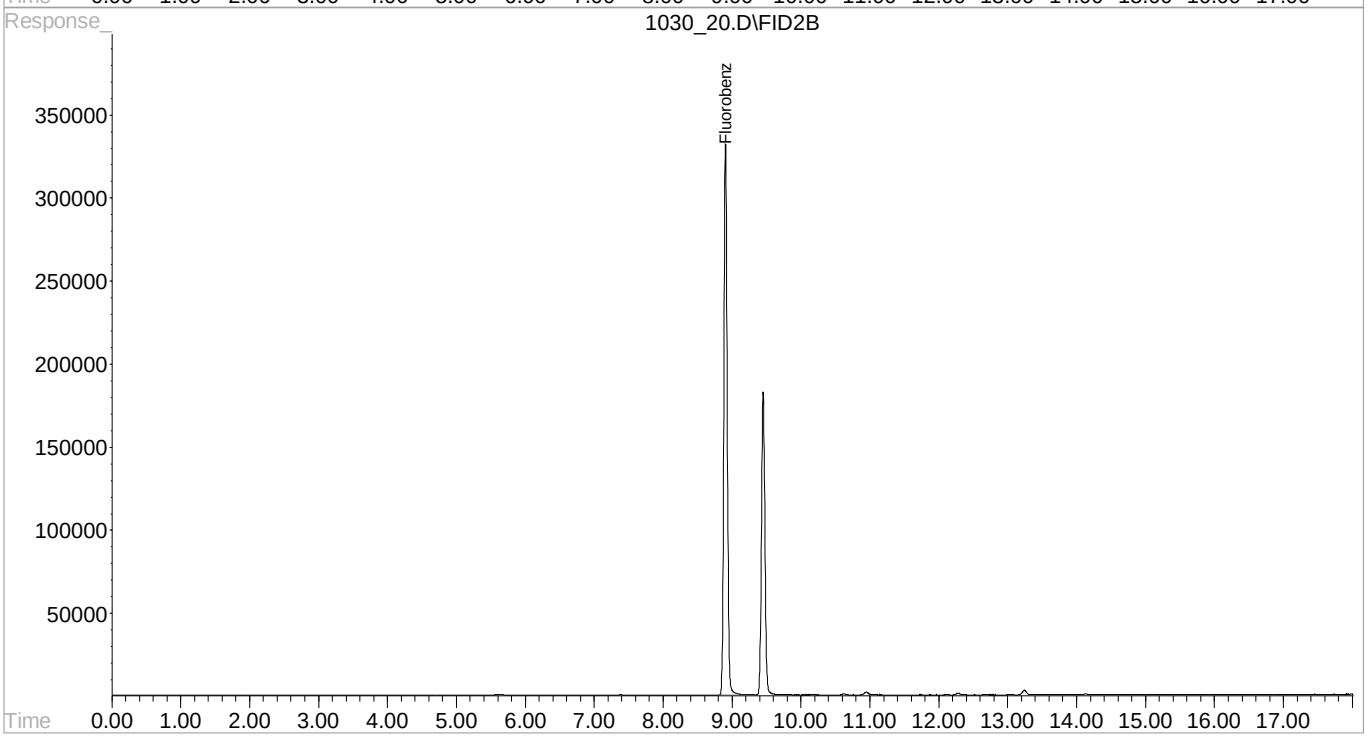
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 20.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 20.D\FID2B.CH
Acq On : 30 Oct 2014 4:25 pm Operator: 621
Sample : L729564-03 1x WG750792 GRO tb Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 12:40 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 29.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 29.D\FID2B.CH
Acq On : 30 Oct 2014 8:09 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 20:29 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

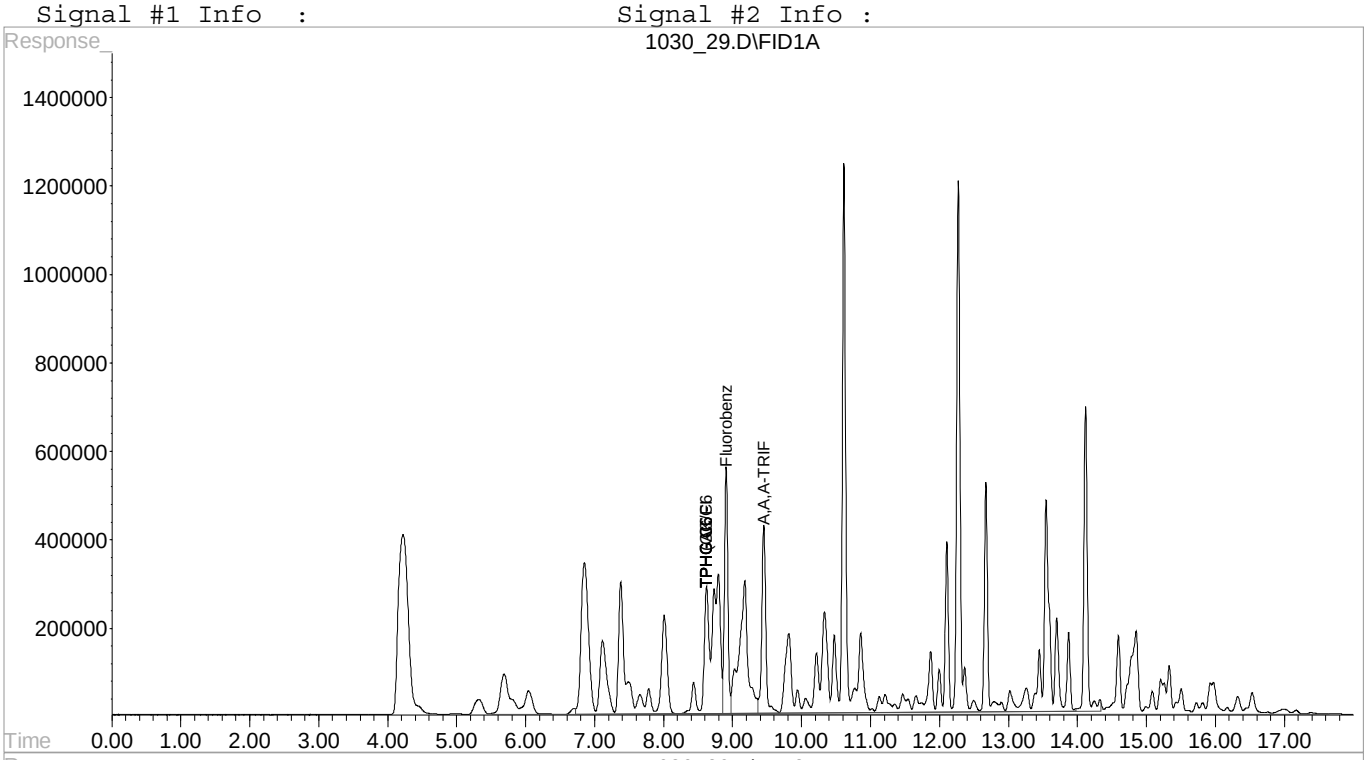
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	19457075	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12069581	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	17414629	229.1991013	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 114.60%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	8039575	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	14889	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	480981564	5.1700866	ppm
4) H,M TPHG C6 - C12	8.61	467050690	5.1670391	ppm
5) H,M TPHGAK C6 to C10	8.61	370130501	5.2057146	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	395019353	5.1978869	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	5256219	NoCal	ppb
12) T,M benzene	8.73	7167725	NoCal	ppb
13) T,M toluene	10.62	28110577	NoCal	ppb
14) T,M ethylbenzene	12.11	8151527	NoCal	ppb
15) T,M m&p-xylene	12.27	29770583	NoCal	ppb
16) T,M o-xylene	12.67	10549979	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	6206826	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	16052757	NoCal	ppb
19) T,M Naphthalene	17.39	175235	NoCal	ppb

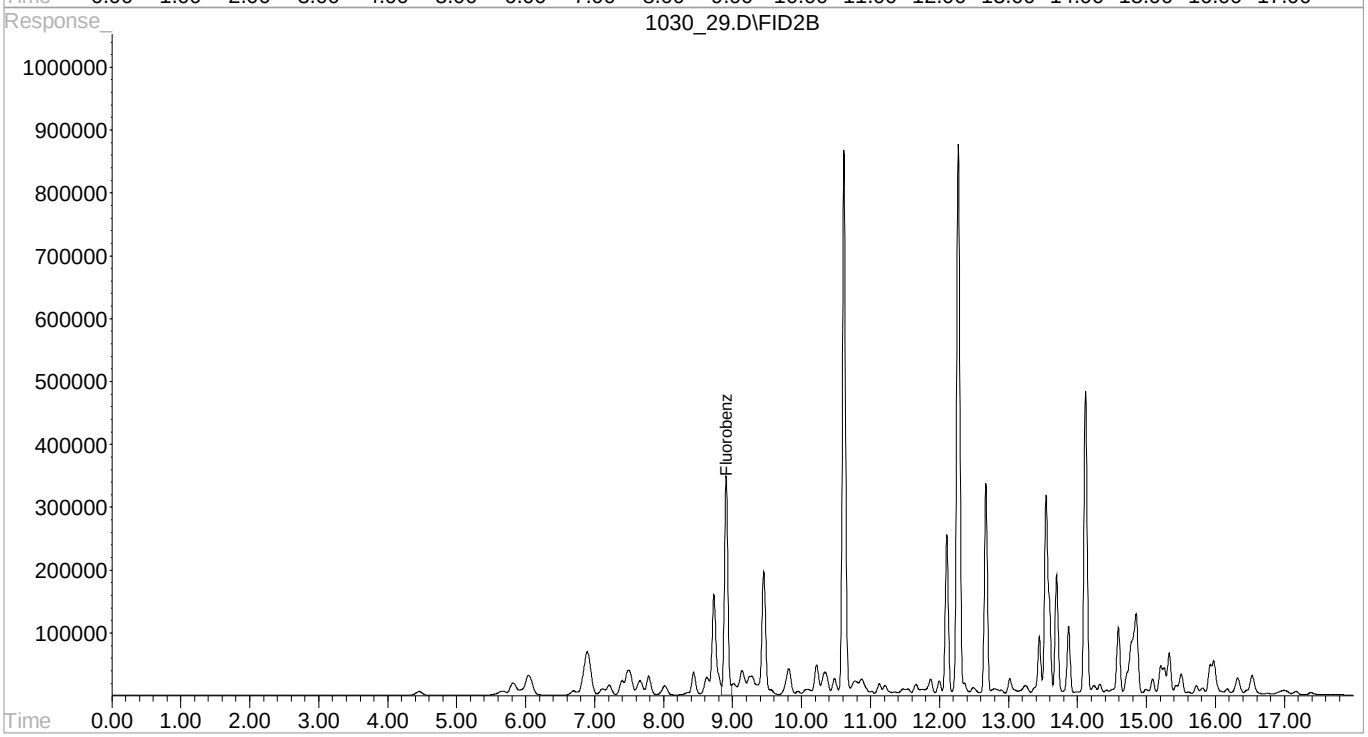
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103014\1030 29.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\103014\1030 29.D\FID2B.CH
Acq On : 30 Oct 2014 8:09 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 20:29 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Calibration

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: AK
Method	: BG07I09N	Review Method	: AK101

Data Released By: Ben Baker

10-SEP-2014 01:50:46 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Mint Miner 2.04 (80613) Directory Scan: z:\090914

10 Sep 2014 14:02

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\090914\0909_01.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_01.D\FID1A.CH					
0	Scanned		621	VOCGC7	INSTBLK BTEX (water ISSURR14C12923)
Scan File Path: z:\090914\0909_02.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_02.D\FID1A.CH					
0	Scanned		621	VOCGC7	RT MARKER (water ISSURR14C12923)
Scan File Path: z:\090914\0909_03.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_03.D\FID1A.CH					
0	Scanned		621	VOCGC7	ICV GRO (water ISSURR14C12923)
Scan File Path: z:\090914\0909_04.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_04.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC7	dnrICV (water ISSURR14C12923)
Scan File Path: z:\090914\0909_05.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_05.D\FID1A.CH					
0	Scanned		621	VOCGC7	LCS (water ISSURR14C12923)
Scan File Path: z:\090914\0909_06.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_06.D\FID1A.CH					
0	Scanned		621	VOCGC7	LCS (water ISSURR14C12923)
Scan File Path: z:\090914\0909_07.D					
Original Path: z:\090914\0909_07.D					
0	No Audit				
Scan File Path: z:\090914\0909_08.D					
Original Path: z:\090914\0909_08.D					
0	No Audit				
Scan File Path: z:\090914\0909_09.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_09.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .055 ppm 14I07115 (water ISSURR1
Scan File Path: z:\090914\0909_10.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_10.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .11 ppm 14I07115 (water ISSURR14(
Scan File Path: z:\090914\0909_11.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_11.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .55 ppm 14I07115 (water ISSURR14(

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\090914\0909_12.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_12.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 1.1 ppm 14I07115 (water ISSURR14
Scan File Path: z:\090914\0909_13.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_13.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 2.75 ppm 14I07115 (water ISSURR1
Scan File Path: z:\090914\0909_14.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_14.D\FID1A.CH					
35	Scanned	D(24), DK(4), DC(4), QM(1), ENR(1)	621	VOCGC7	STD GRO 5.5 ppm 14I07115 (water ISSURR14
Scan File Path: z:\090914\0909_15.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_15.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 11 ppm 14I07115 (water ISSURR14C
Scan File Path: z:\090914\0909_16.D					
Original Path: z:\090914\0909_16.D					
0	No Audit				
Scan File Path: z:\090914\0909_17.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_17.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC7	SSCV GRO 5.5 ppb 14I07117 (water ISSURR1
Scan File Path: z:\090914\0909_18.D					
Original Path: z:\090914\0909_18.D					
0	No Audit				
Scan File Path: z:\090914\0909_19.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_19.D\FID1A.CH					
0	Scanned		621	VOCGC7	BTEX .25 ppb LOD (water ISSURR14C12923)

D = Deletion of any analyte
DK = Deletion of a spike compound
QM = Processed >3 times using the same method
DC = Deletion of a CCC
EN = Quant report set to not reviewed (Disables MZ code)

ScanSummary.rpt

Total Files Scanned	Beginning Analyzed Date
Methods	Ending Analyzed Date
Samples	Analyzed Range
Tunes	Greatest Time Between Tunes
CCCs	Greatest Time Between CCCs

Distinct Method Last Updated count
Operators Intruments

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: AZ
Method	: BG07I09N	Review Method	: GROAZ

Data Released By: Ben Baker

10-SEP-2014 01:50:47 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: IN
Method	: BG07I09N	Review Method	: 8015D

Data Released By: Ben Baker

10-SEP-2014 01:51:12 PM
Date

Analyst Comments:

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: SW846
Method	: BG07I09N	Review Method	: 8015-8021

Data Released By: Ben Baker

10-SEP-2014 01:51:28 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Instrument: VOCGC7
Method: BG07I09N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0821_04.D	0.5	8/21/2014 1:06:00 PM
0821_05.D	1	8/21/2014 1:31:00 PM
0821_06.D	5	8/21/2014 1:56:00 PM
0821_07.D	10	8/21/2014 2:21:00 PM
0821_08.D	25	8/21/2014 2:47:00 PM
0821_09.D	50	8/21/2014 3:12:00 PM
0821_10.D	100	8/21/2014 3:37:00 PM
0821_11.D	150	8/21/2014 4:02:00 PM
0821_12.D	200	8/21/2014 4:27:00 PM
0821_13.D	250	8/21/2014 4:52:00 PM
0909_09.D	.05G	9/9/2014 4:05:00 PM
0909_10.D	.11G	9/9/2014 4:30:00 PM
0909_11.D	.55G	9/9/2014 4:56:00 PM
0909_12.D	1.1G	9/9/2014 5:21:00 PM
0909_13.D	2.7G	9/9/2014 5:46:00 PM
0909_14.D	5.5G	9/9/2014 6:11:00 PM
0909_15.D	11G	9/9/2014 6:36:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPO
Released By : Ben Baker
Date Released : 9/10/2014 1:51:45 PM
Run ID : 090914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0821_04	STD BTEX .5 PPM 14G09861	BG07H21N						1	1	08/21/14 1306	"soil ISSURR14C12923"
2	0821_05	STD BTEX 1 PPM 14G09861	BG07H21N						1	1	08/21/14 1331	"soil ISSURR14C12923"
3	0821_06	STD BTEX 5 PPM 14G09861	BG07H21N						1	1	08/21/14 1356	"soil ISSURR14C12923"
4	0821_07	STD BTEX 10 PPM 14G09861	BG07H21N						1	1	08/21/14 1421	"soil ISSURR14C12923"
5	0821_08	STD BTEX 25 PPM 14G09861	BG07H21N						1	1	08/21/14 1447	"soil ISSURR14C12923"
6	0821_09	MSTD BTEX 50 PPM 14G09861	BG07H21N						1	1	08/21/14 1512	"soil ISSURR14C12923"
7	0821_10	STD BTEX 100 PPM 14G09861	BG07H21N						1	1	08/21/14 1537	"water ISSURR14C12923"
8	0821_11	STD BTEX 150 PPM 14G09861	BG07H21N						1	50	08/21/14 1602	"water ISSURR14C12923"
9	0821_12	STD BTEX 200 PPM 14G09861	BG07H21N						1	5	08/21/14 1627	"water ISSURR14C12923"
10	0821_13	STD BTEX 250 PPM 14G09861	BG07H21N						1	1	08/21/14 1652	"water ISSURR14C12923"
11	0821_15	SSCV BTEX 50 PPM 14G09864	BG07H21N						1	1	08/21/14 1743	"water ISSURR14C12923"
12	0909_01	INSTBLK	BG07I09N						1	1	09/09/14 0809	"water ISSURR14C12923"
13	0909_09	STD GRO .055 PPM 14I07115	BG07I09N						1	1	09/09/14 1605	"water ISSURR14C12923"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPO
Released By : Ben Baker
Date Released : 9/10/2014 1:51:45 PM
Run ID : 090914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
14	0909_10	STD GRO .11 PPM 14I07115	BG07I09N						1	1	09/09/14 1630	"water ISSURR14C12923"
15	0909_11	STD GRO .55 PPM 14I07115	BG07I09N						1	1	09/09/14 1656	"water ISSURR14C12923"
16	0909_12	STD GRO 1.1 PPM 14I07115	BG07I09N						1	1	09/09/14 1721	"water ISSURR14C12923"
17	0909_13	STD GRO 2.75 PPM 14I07115	BG07I09N						1	1	09/09/14 1746	"water ISSURR14C12923"
18	0909_14	MSTD GRO 5.5G PPM 14I07115	BG07I09N						1	1	09/09/14 1811	"water ISSURR14C12923"
19	0909_15	STD GRO 11 PPM 14I07115	BG07I09N						1	1	09/09/14 1836	"water ISSURR14C12923"
20	0909_17	SSCV GRO 5.5G PPM 14I07117	BG07I09N						1	1	09/09/14 1926	"water ISSURR14C12923"

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: AK101	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: AK	Released On	: 9/10/2014 1:51:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: GROAZ	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: AZ	Released On	: 9/10/2014 1:50:47 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: 8015D	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: IN	Released On	: 9/10/2014 1:51:12 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: 8015-8021	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: SW846	Released On	: 9/10/2014 1:51:28 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

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Manual Integrations - Audit Trail

Instrument ID	: VOCGC7	Method	: BG07I09N
Released By	: Ben Baker	Review Method	: AK101
Released On	: 9/10/2014 1:52:01 PM	Review Protocol	: AK

File ID	Level ID	Parameter	Old Conc.	New Conc.	Old Resp.	New Resp.
0821_04.D	0.5	Methyl Tert-Butyl Ether	0ppb	0.485678ppb	0	12776.6
0821_04.D	0.5	ethylbenzene	0.507654ppb	0.513322ppb	41477.1	41940.2
0821_05.D	1	Methyl Tert-Butyl Ether	0ppb	1.06891ppb	0	29819.4
0821_05.D	1	ethylbenzene	0.959835ppb	0.938592ppb	83162.8	81322.3
0821_05.D	1	o-xylene	0.919883ppb	0.930151ppb	79308.5	80193.8
0821_06.D	5	Methyl Tert-Butyl Ether	5.24632ppb	5.16658ppb	147748	145502

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IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC7	CCV File ID	: 0821_09	Tune File ID	:
Run ID	: 082114	CCV Analyzed At	: 08/21/14 1512	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)										
0821_04	STD BTEX .5 PPM 14G09861	1			0	0	102										
0821_05	STD BTEX 1 PPM 14G09861	1			0	0	103										
0821_06	STD BTEX 5 PPM 14G09861	1			0	0	104										
0821_07	STD BTEX 10 PPM 14G09861	1			0	0	104										
0821_08	STD BTEX 25 PPM 14G09861	1			0	0	105										
0821_09	MSTD BTEX 50 PPM 14G09861	1			0	0	105										
0821_10	STD BTEX 100 PPM 14G09861	1			0	0	105										
0821_11	STD BTEX 150 PPM 14G09861	1			0	0	106										
0821_12	STD BTEX 200 PPM 14G09861	1			0	0	106										
0821_13	STD BTEX 250 PPM 14G09861	1			0	0	107										
SECOND COLUMN																	
0821_04	STD BTEX .5 PPM 14G09861	1			1.169328E+07	0	102										
0821_05	STD BTEX 1 PPM 14G09861	1			1.240021E+07	0	103										
0821_06	STD BTEX 5 PPM 14G09861	1			1.251803E+07	0	104										
0821_07	STD BTEX 10 PPM 14G09861	1			1.256142E+07	0	104										
0821_08	STD BTEX 25 PPM 14G09861	1			1.25999E+07	0	105										
0821_09	MSTD BTEX 50 PPM 14G09861	1			1.273018E+07	0	105										
0821_10	STD BTEX 100 PPM 14G09861	1			1.17258E+07	0	105										

IS - SURROGATE SUMMARY REPORT

0821_11	STD BTEX 150 PPM 14G09861	1			1.27986E+07	0	106										
0821_12	STD BTEX 200 PPM 14G09861	1			1.28488E+07	0	106										
0821_13	STD BTEX 250 PPM 14G09861	1			1.263624E+07	0	107										

Sample File ID with Red Background = Tune window failure, * = IS/Surr failure

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12065 Lebanon Rd., Mt. Juliet, TN 37122

IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC7	CCV File ID	: 0909_14	Tune File ID	:
Run ID	: 090914	CCV Analyzed At	: 09/09/14 1811	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)									
0909_09	STD GRO .055 PPM 14I07115	1			1.96911E+07	89.8	0									
0909_10	STD GRO .11 PPM 14I07115	1			1.733154E+07	90.2	0									
0909_11	STD GRO .55 PPM 14I07115	1			2.046293E+07	90.2	0									
0909_12	STD GRO 1.1 PPM 14I07115	1			1.943094E+07	93.6	0									
0909_13	STD GRO 2.75 PPM 14I07115	1			2.051831E+07	97.5	0									
0909_14	MSTD GRO 5.5G PPM 14I07115	1			2.071404E+07	105	0									
0909_15	STD GRO 11 PPM 14I07115	1			2.056704E+07	119	0									
SECOND COLUMN																
0909_09	STD GRO .055 PPM 14I07115	1			0	0	0									
0909_10	STD GRO .11 PPM 14I07115	1			0	0	0									
0909_11	STD GRO .55 PPM 14I07115	1			0	0	0									
0909_12	STD GRO 1.1 PPM 14I07115	1			0	0	0									
0909_13	STD GRO 2.75 PPM 14I07115	1			0	0	0									
0909_14	MSTD GRO 5.5G PPM 14I07115	1			0	0	0									
0909_15	STD GRO 11 PPM 14I07115	1			0	0	0									

Sample File ID with Red Background = Tune window failure, * = IS/Surr failure

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

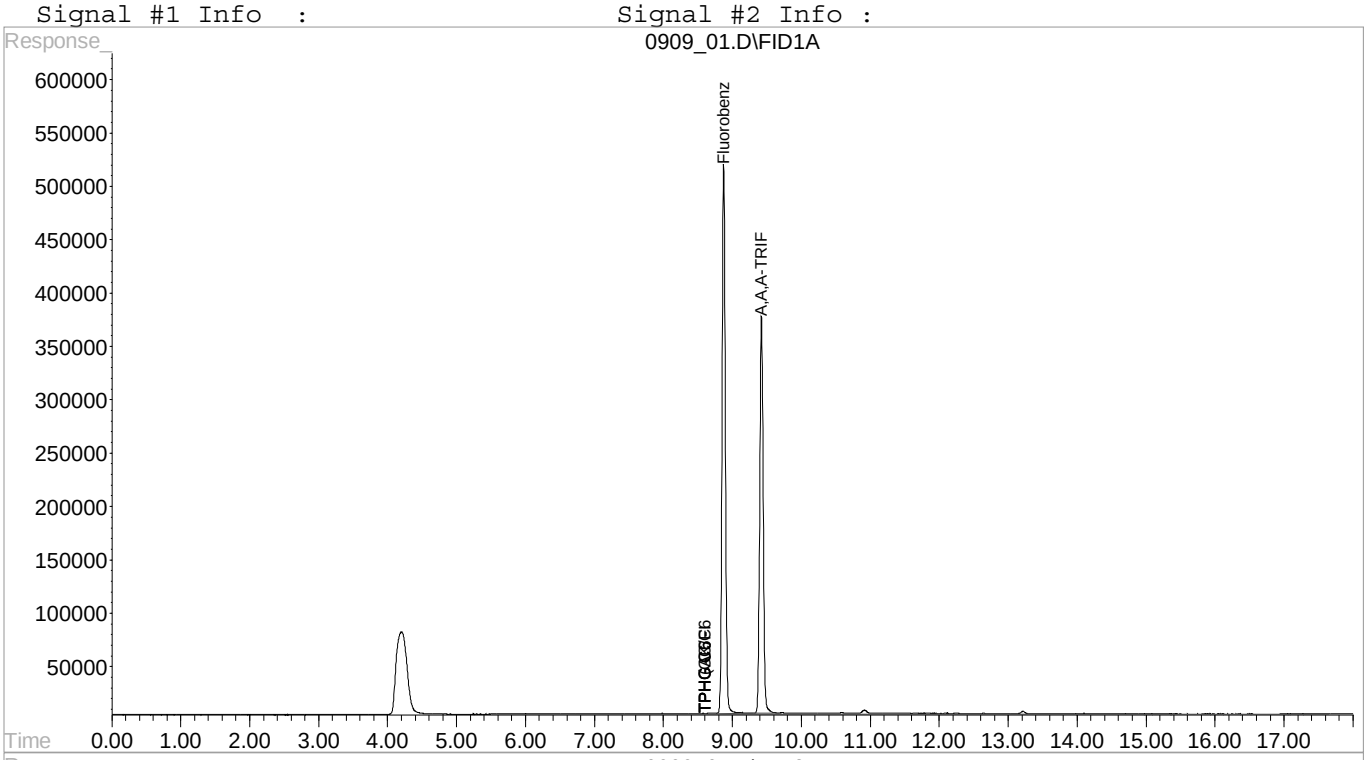
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9) I Fluorobenzene #2	8.87	10594668	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 98.15%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	28229	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4) H,M TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5) H,M TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	0.00	0	N.D.	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.25	17032	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

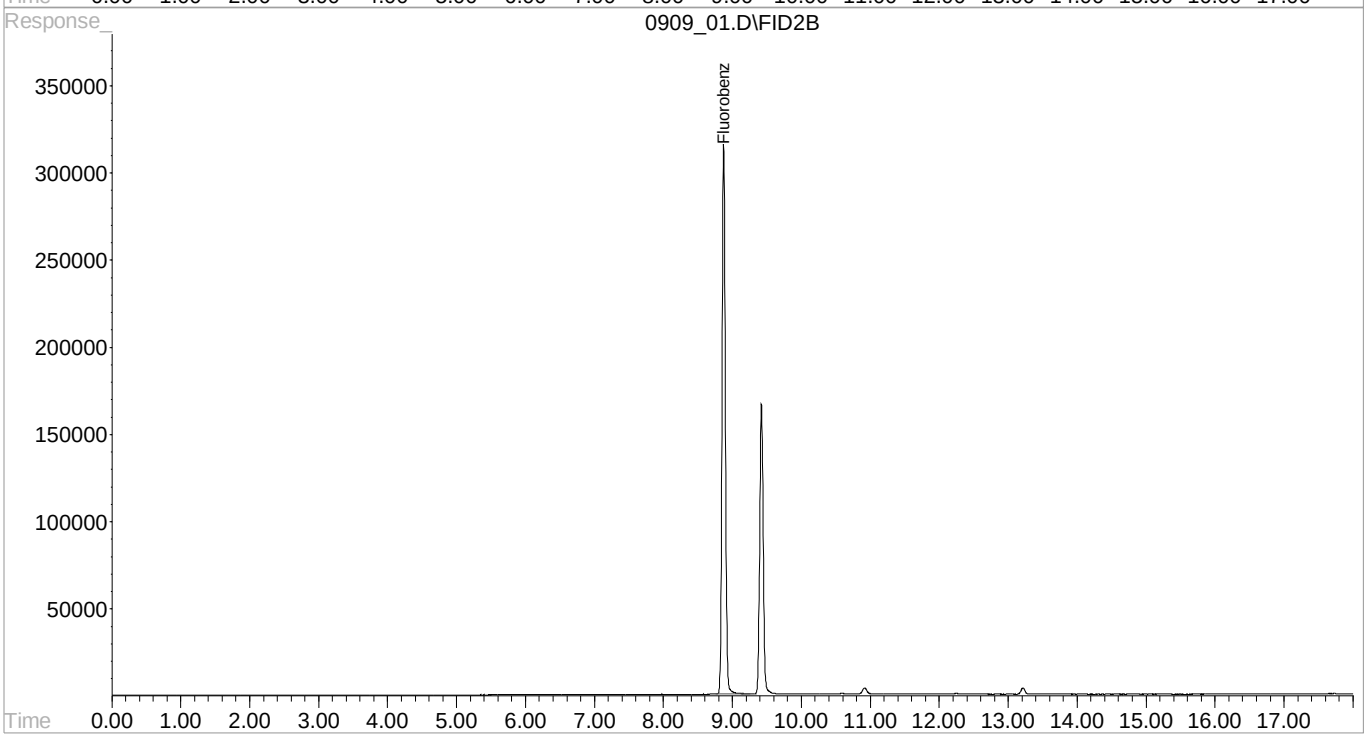
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

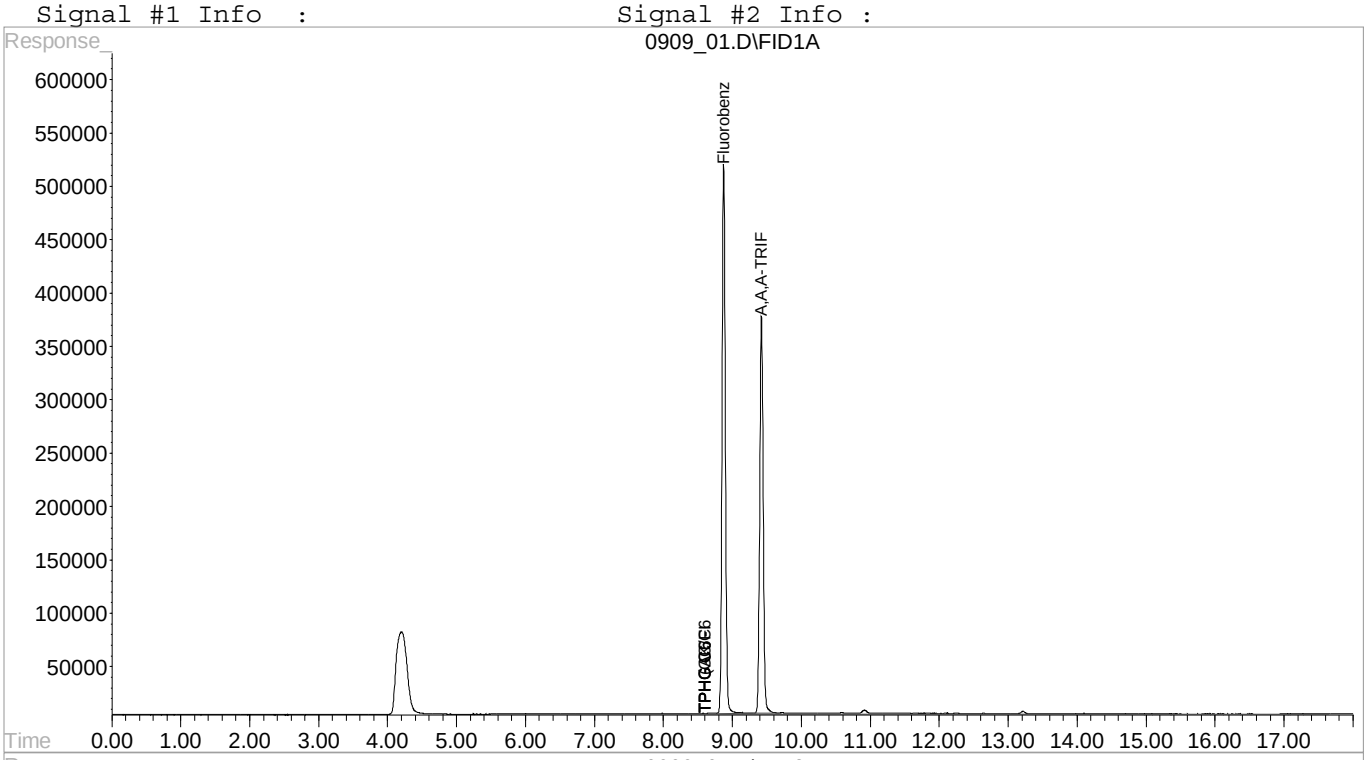
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1) I	Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9) I	Fluorobenzene #2	8.87	10594668	200.0000000	ppb
	System Monitoring Compounds				
7) S	A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery =	98.15%		
10) S	A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery =	0.00%#		
	Target Compounds				
2) H,M	TPHG C4 - C12	0.00	28229	NoCal	ppm
3) H,M	TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4) H,M	TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5) H,M	TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6) h,m	TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11) T,M	Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M	benzene	0.00	0	N.D.	ppb
13) T,M	toluene	0.00	0	N.D.	ppb
14) T,M	ethylbenzene	0.00	0	N.D.	ppb
15) T,M	m&p-xylene	12.25	17032	NoCal	ppb
16) T,M	o-xylene	0.00	0	N.D.	ppb
17) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M	Naphthalene	0.00	0	N.D.	ppb

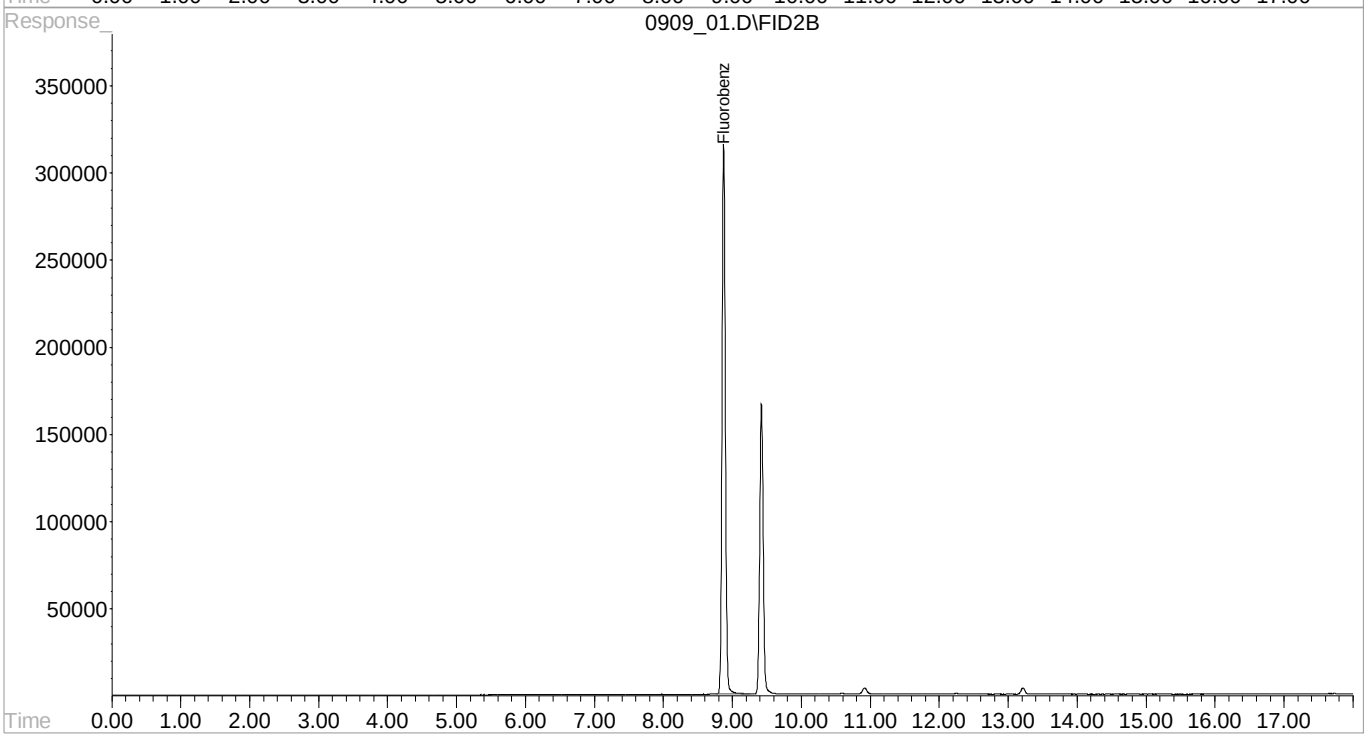
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

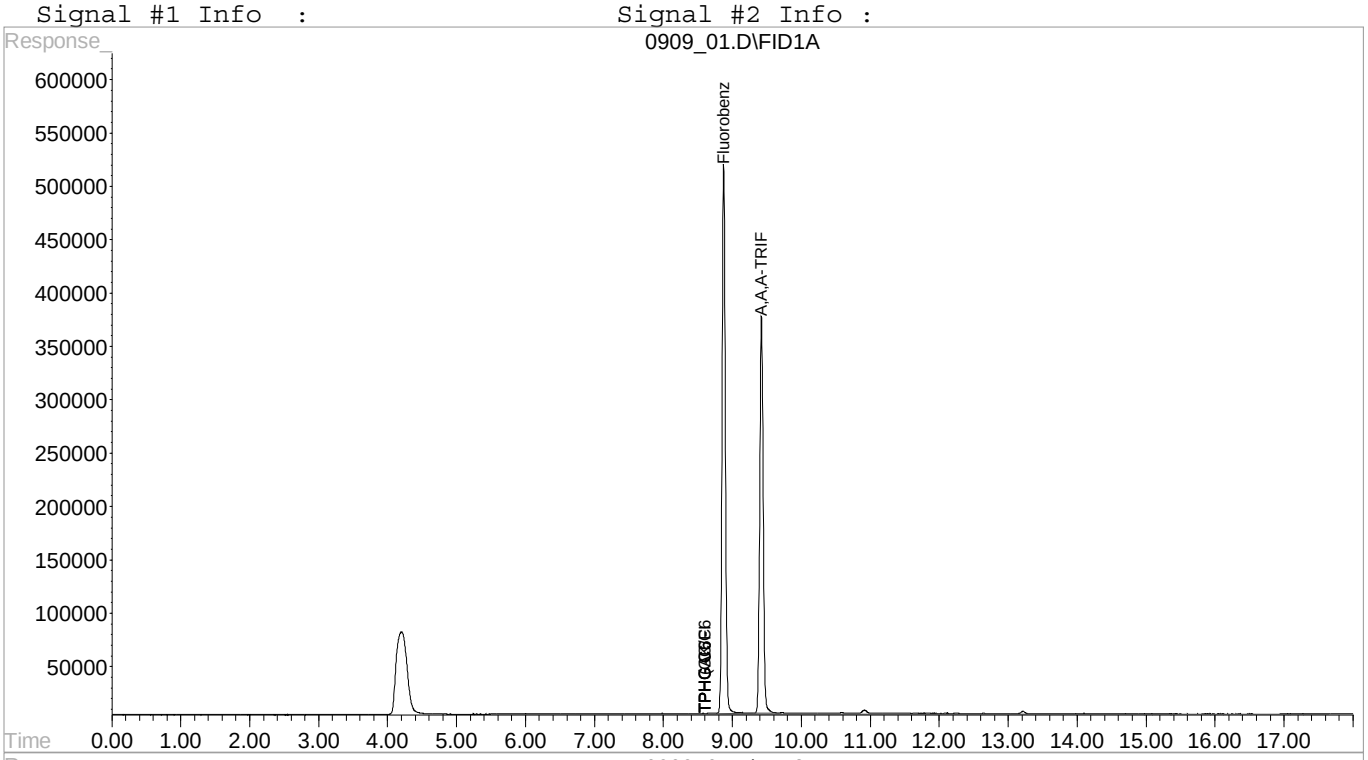
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9) I Fluorobenzene #2	8.87	10594668	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	98.15%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	28229	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4) H,M TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5) H,M TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	0.00	0	N.D.	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.25	17032	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

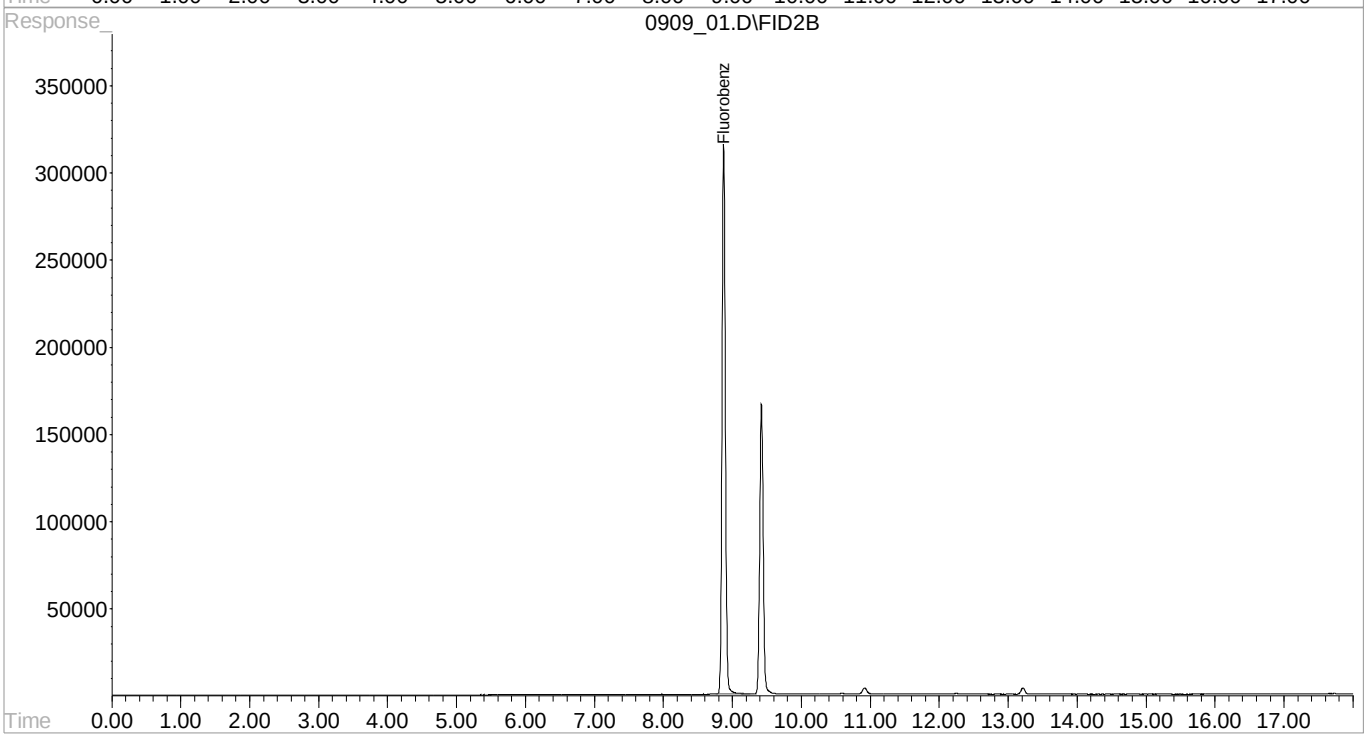
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: AK101
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: AK

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	75	125
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	75	125
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	75	125
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	75	125
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: GROAZ
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: AZ

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: 8015D
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: IN

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: 8015-8021
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: SW846

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

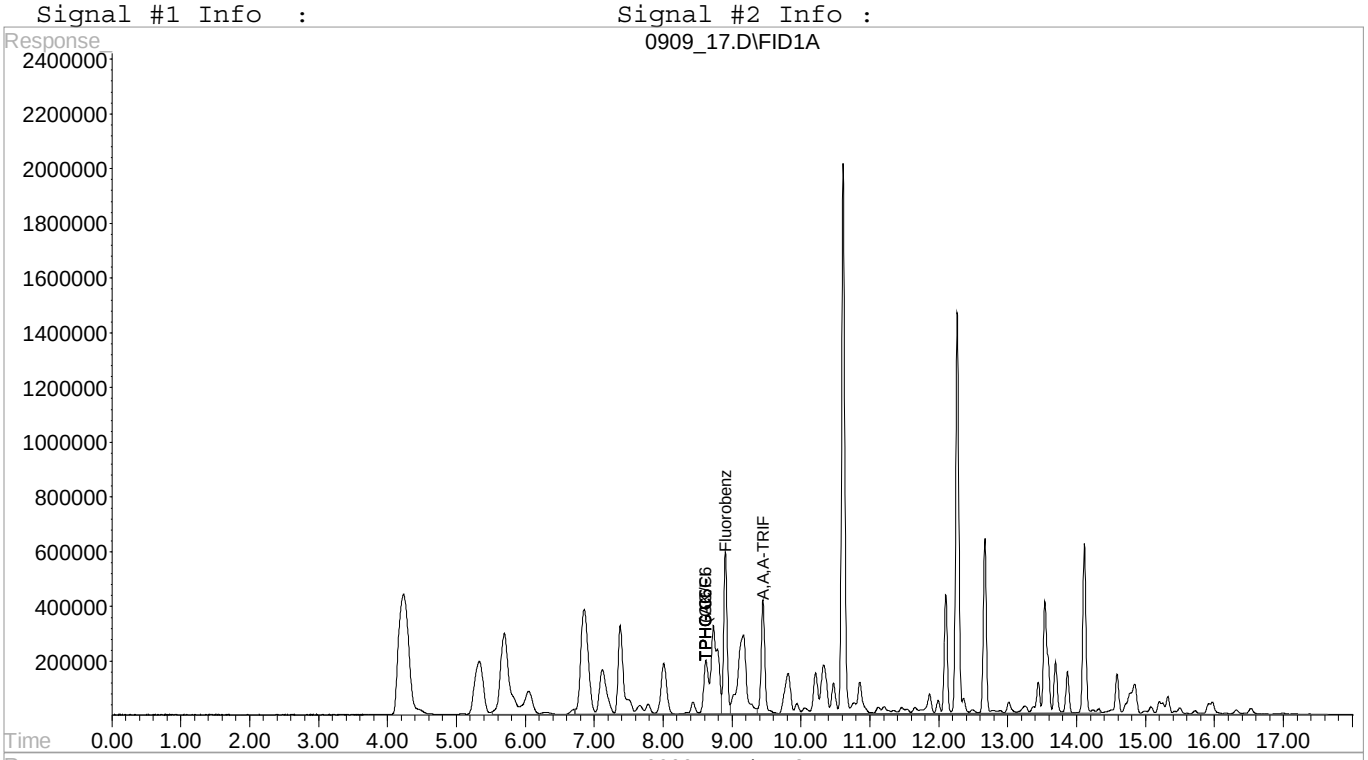
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	20651752	200.0000000	ppb
9) I Fluorobenzene #2	8.90	13020674	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	16502894	204.6347752	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 102.32%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7457203	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	24736	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	468611721	4.7457317	ppm
4) H,M TPHG C6 - C12	8.61	433180298	4.5150968	ppm
5) H,M TPHGAK C6 to C10	8.61	367829647	4.8740822	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	389220542	4.8253059	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	4892687	NoCal	ppb
12) T,M benzene	8.73	8703686	NoCal	ppb
13) T,M toluene	10.61	42528536	NoCal	ppb
14) T,M ethylbenzene	12.10	8946644	NoCal	ppb
15) T,M m&p-xylene	12.27	34567673	NoCal	ppb
16) T,M o-xylene	12.67	12572210	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	5388284	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	13931702	NoCal	ppb
19) T,M Naphthalene	17.38	65355	NoCal	ppb

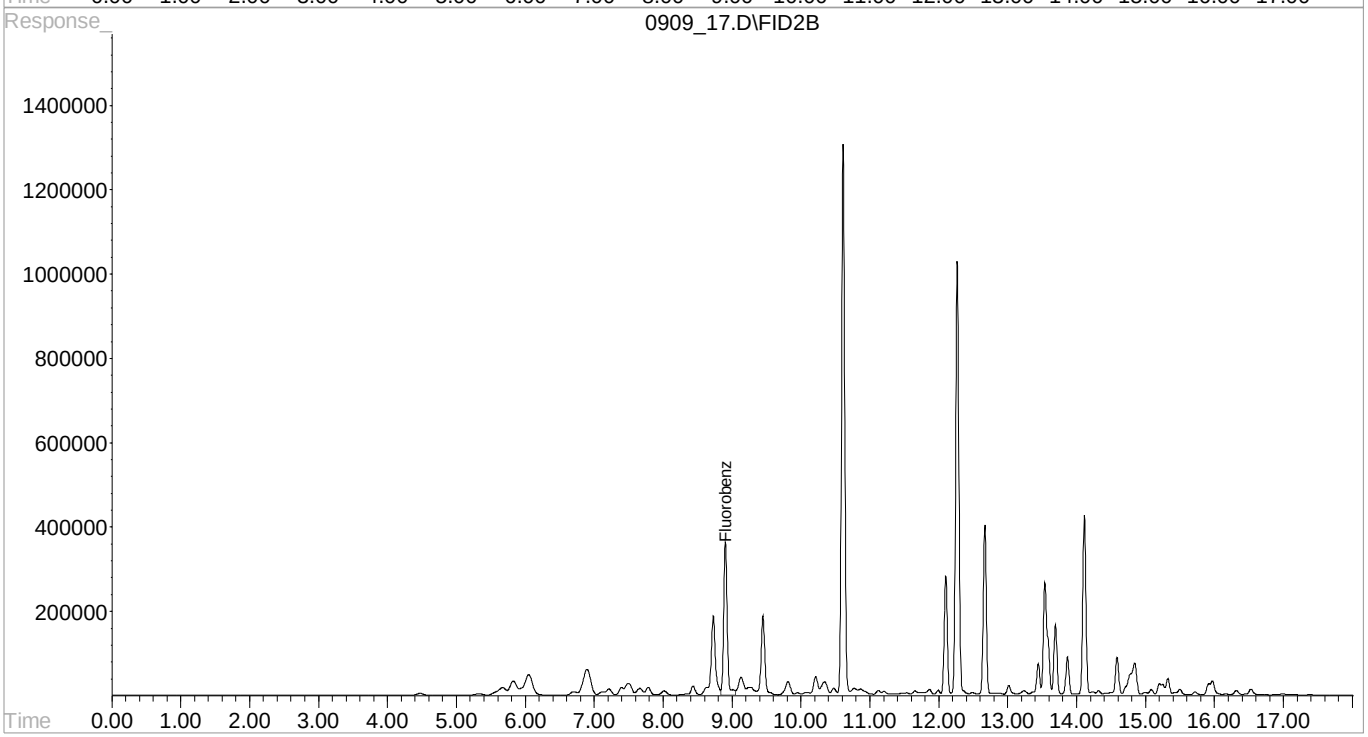
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

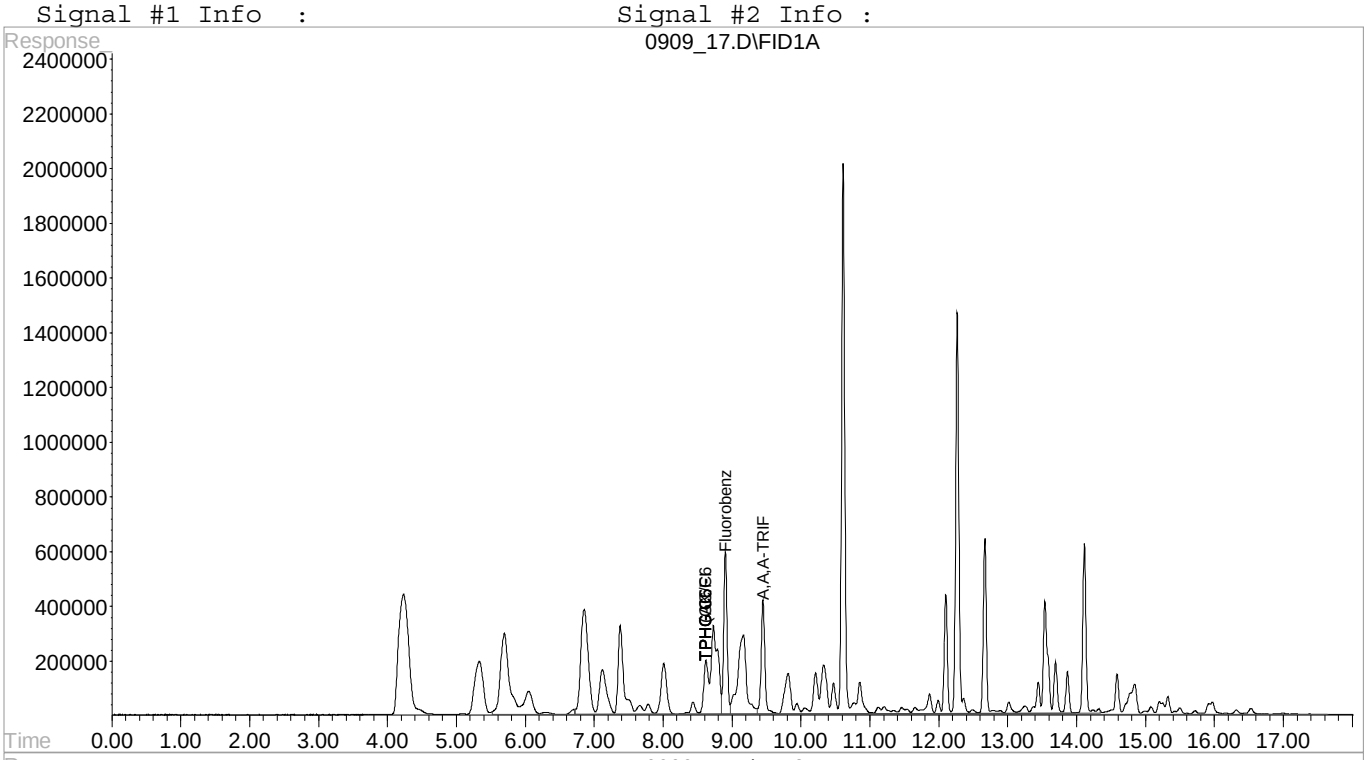
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	20651752	200.0000000	ppb
9) I Fluorobenzene #2	8.90	13020674	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	16502894	204.6347752	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 102.32%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7457203	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	24736	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	468611721	4.7457317	ppm
4) H,M TPHG C6 - C12	8.61	433180298	4.5150968	ppm
5) H,M TPHGAK C6 to C10	8.61	367829647	4.8740822	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	389220542	4.8253059	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	4892687	NoCal	ppb
12) T,M benzene	8.73	8703686	NoCal	ppb
13) T,M toluene	10.61	42528536	NoCal	ppb
14) T,M ethylbenzene	12.10	8946644	NoCal	ppb
15) T,M m&p-xylene	12.27	34567673	NoCal	ppb
16) T,M o-xylene	12.67	12572210	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	5388284	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	13931702	NoCal	ppb
19) T,M Naphthalene	17.38	65355	NoCal	ppb

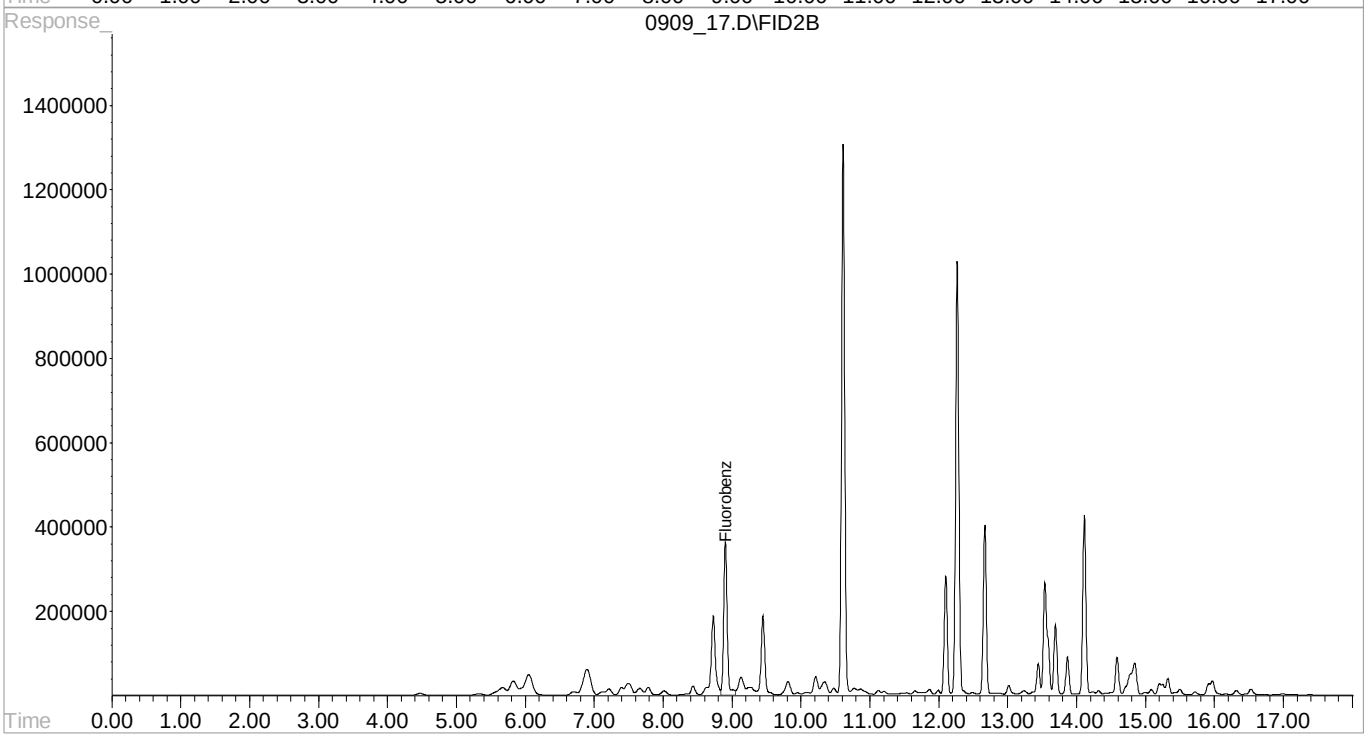
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

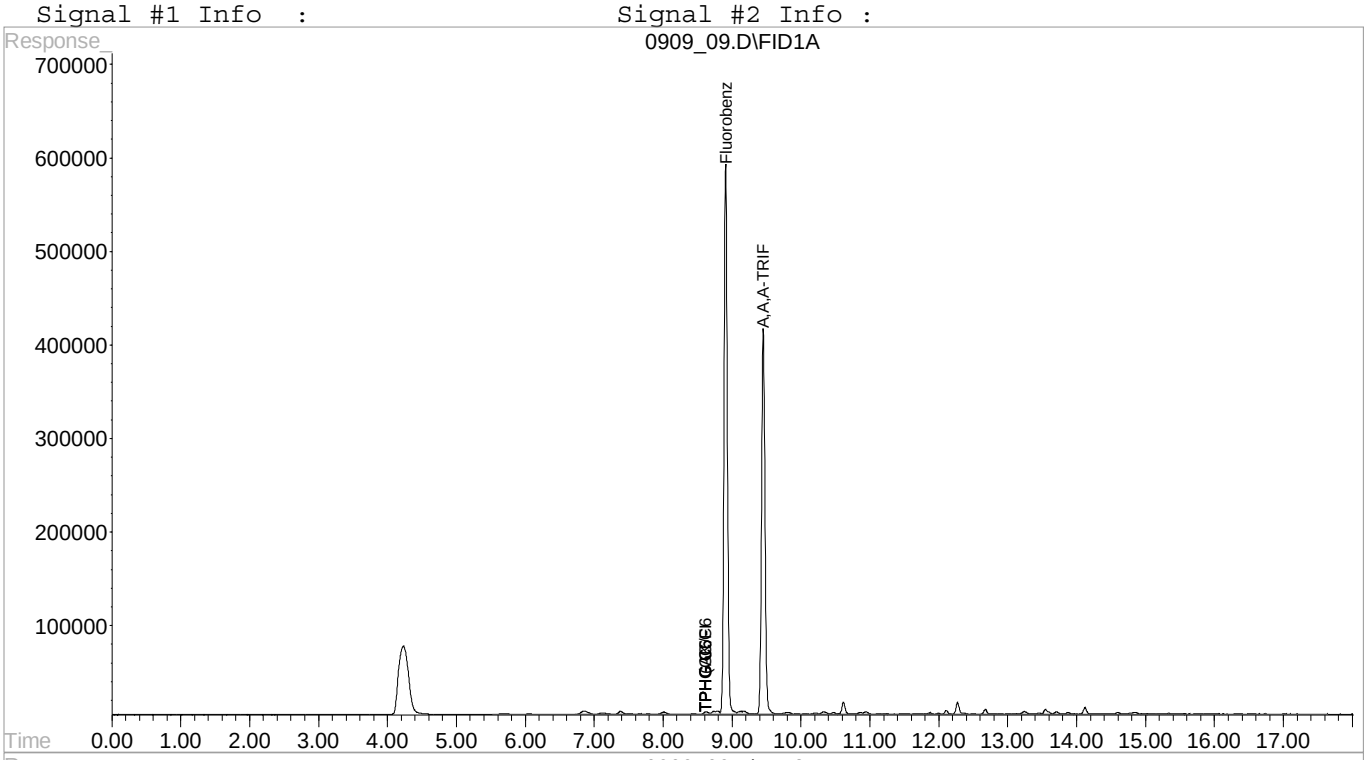
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	19691101	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12285196	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14554683	179.6188612	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 89.81%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	6596296	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19532	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	5927528	0.0695605	ppm
4) H,M TPHG C6 - C12	8.61	5719407	0.0689476	ppm
5) H,M TPHGAK C6 to C10	8.61	4604249	0.0707559	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	4918471	0.0706796	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	68943	NoCal	ppb
12) T,M benzene	8.73	65727	NoCal	ppb
13) T,M toluene	10.62	312850	NoCal	ppb
14) T,M ethylbenzene	12.11	85102	NoCal	ppb
15) T,M m&p-xylene	12.27	343149	NoCal	ppb
16) T,M o-xylene	12.68	114194	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	73904	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	167724	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

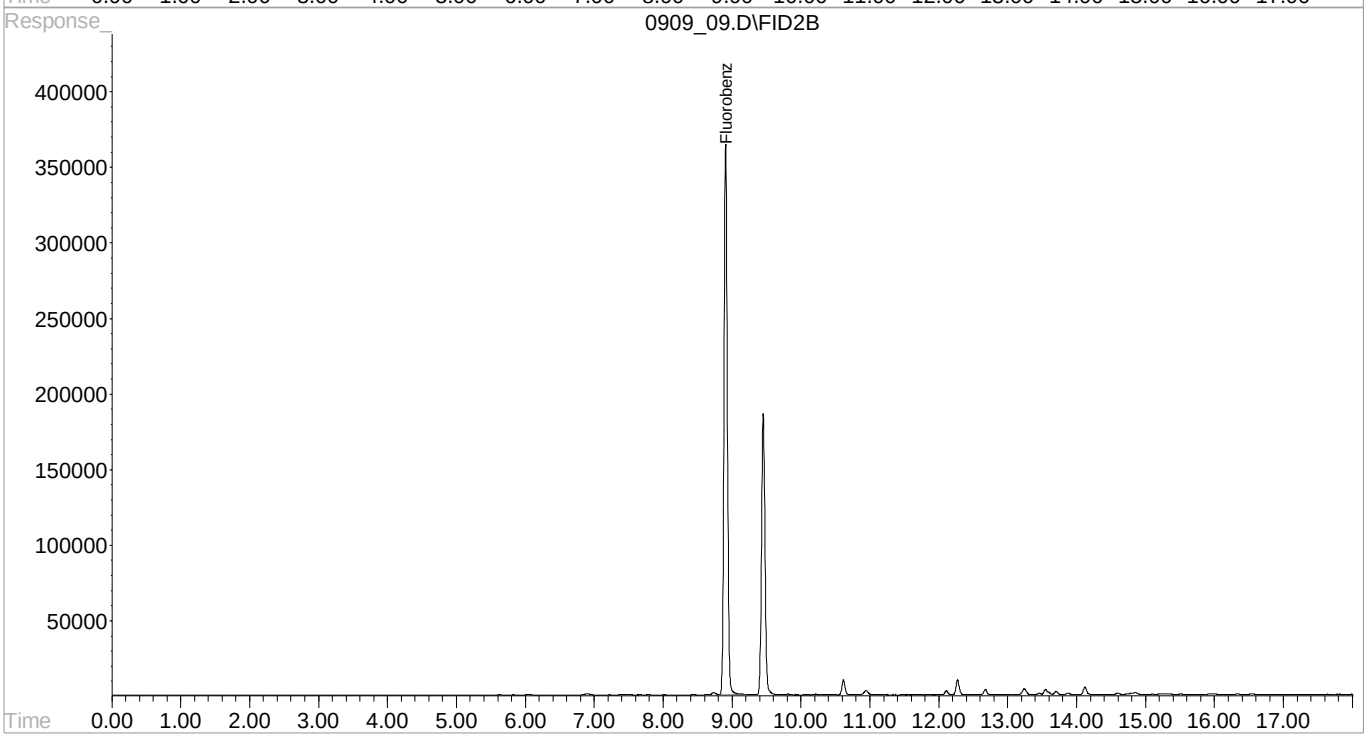
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

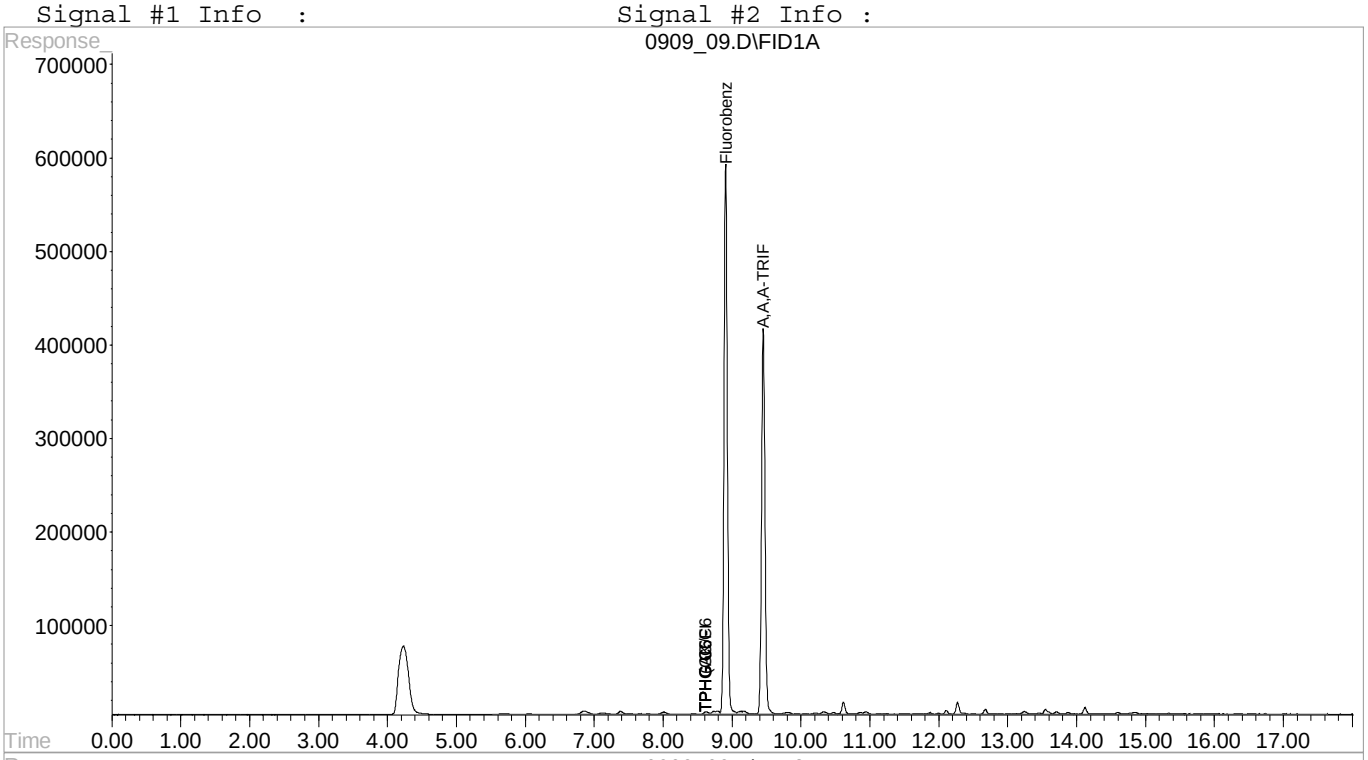
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	19691101	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14554683	179.6188612	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	89.81%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19532	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	5927528	0.0695605	ppm
4) H,M TPHG C6 - C12	8.61	5719407	0.0689476	ppm
5) H,M TPHGAK C6 to C10	8.61	4604249	0.0707559	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	4918471	0.0706796	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

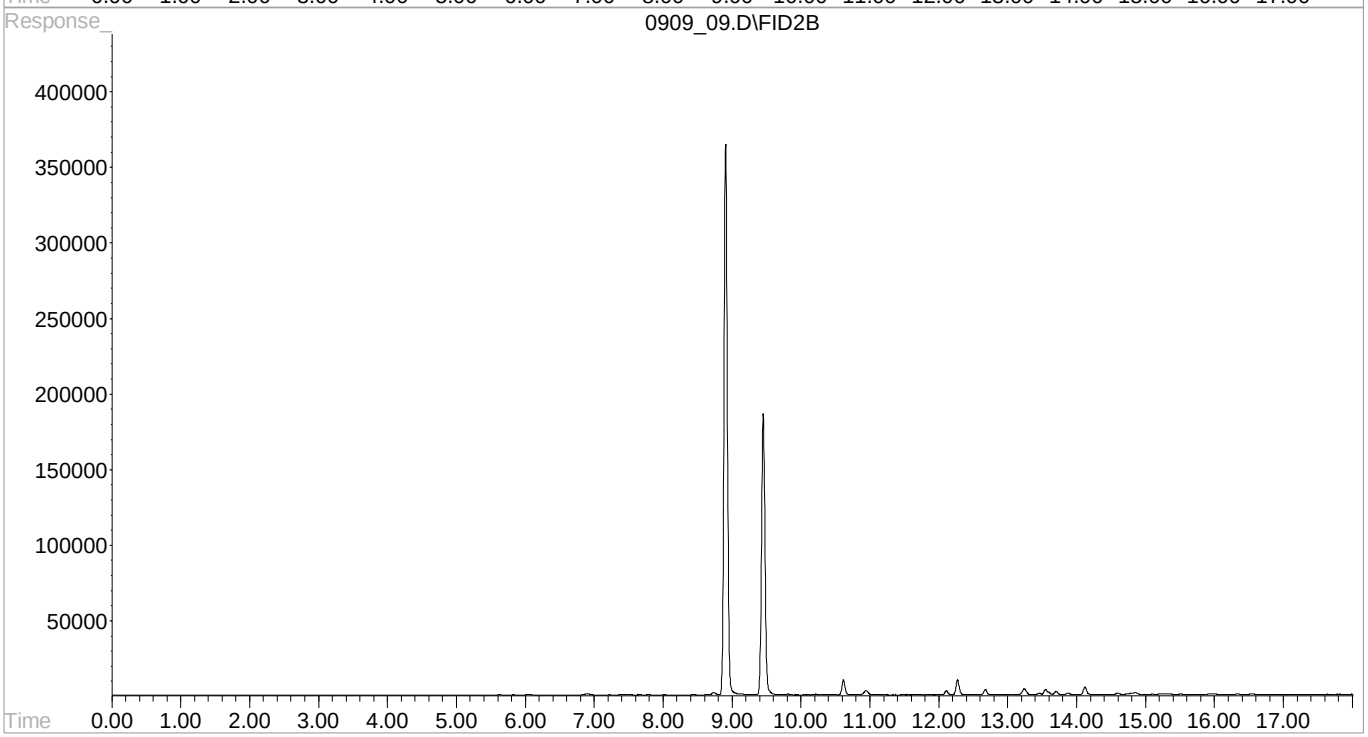
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH   Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On    :  9 Sep 2014   4:30 pm                    Operator: 621
Sample    : STD GRO .11 ppm 14I07115                 Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

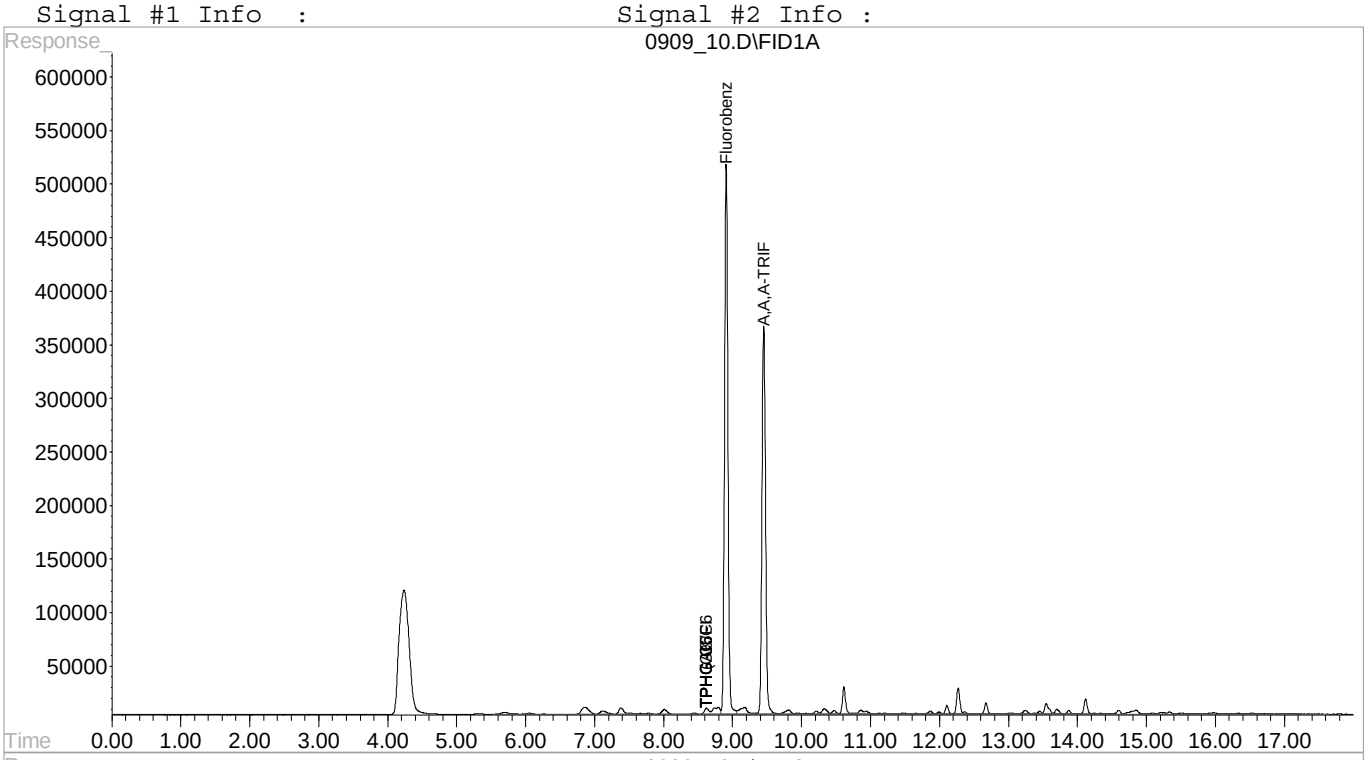
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	17331539	200.0000000	ppb
9) I Fluorobenzene #2	8.91	10810428	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	12869278	180.4414253	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	90.22%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	5875285	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	21953	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	10559095	0.1407826	ppm
4) H,M TPHG C6 - C12	8.61	10243185	0.1402930	ppm
5) H,M TPHGAK C6 to C10	8.61	7978159	0.1392962	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	8522165	0.1391384	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	119936	NoCal	ppb
12) T,M benzene	8.73	137238	NoCal	ppb
13) T,M toluene	10.62	609704	NoCal	ppb
14) T,M ethylbenzene	12.11	161331	NoCal	ppb
15) T,M m&p-xylene	12.27	646286	NoCal	ppb
16) T,M o-xylene	12.67	218279	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	133896	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	330372	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

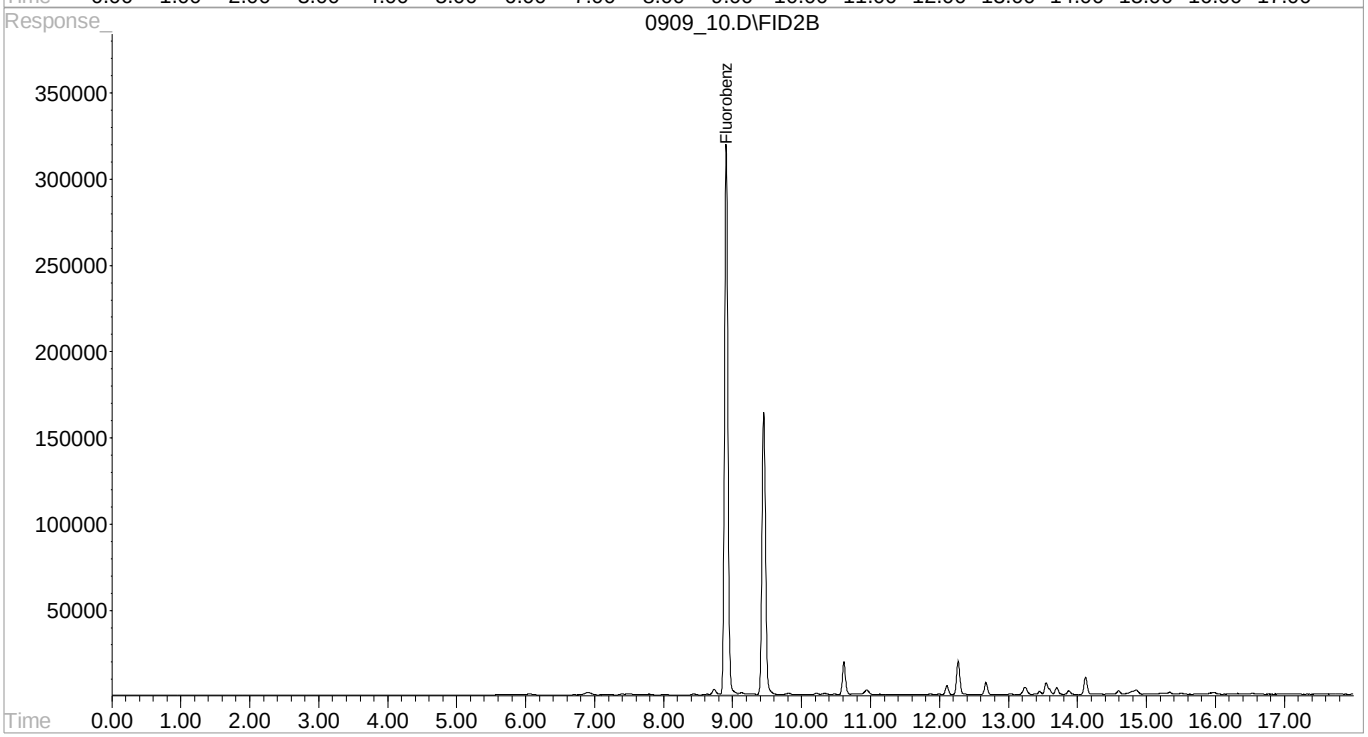
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

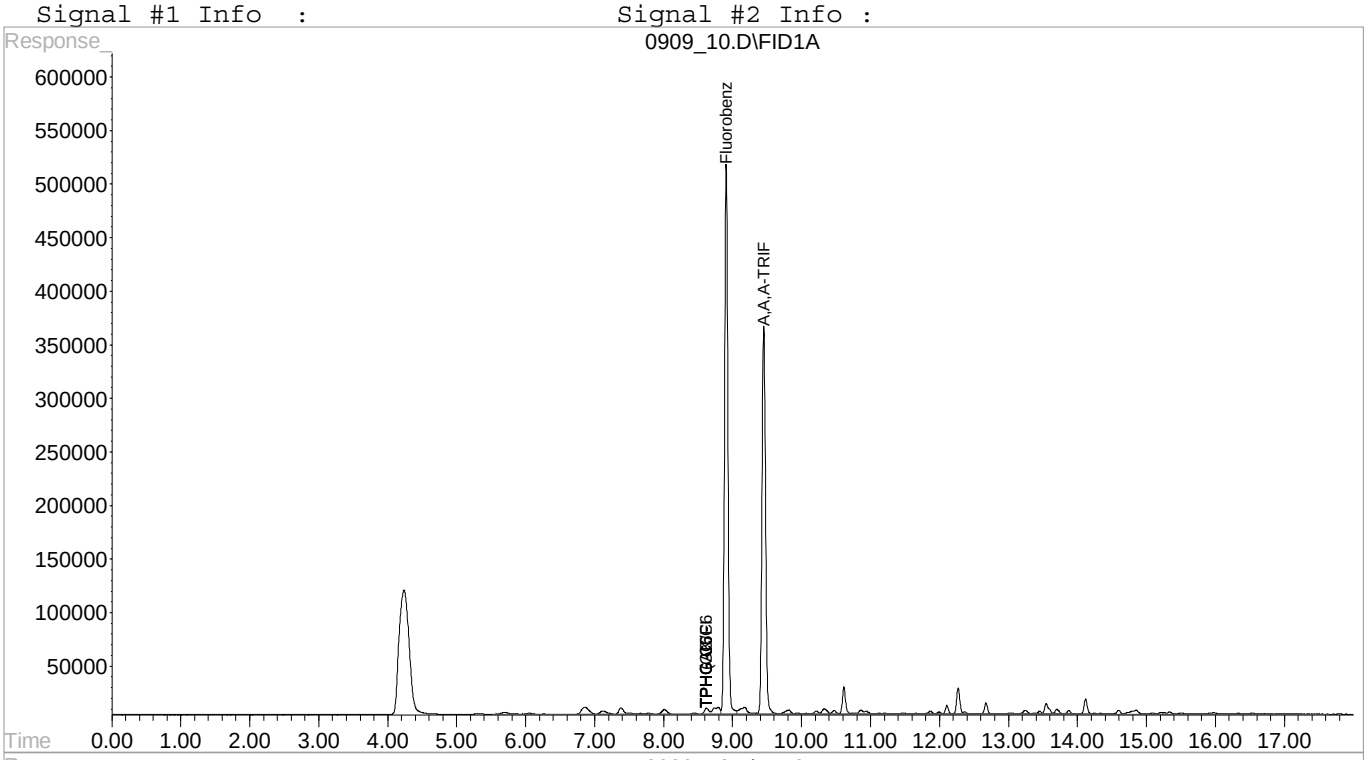
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Fluorobenzene #1	8.91	17331539	200.0000000	ppb	
9) I	Fluorobenzene #2	0.00	0	N.D.	ppb	d
	System Monitoring Compounds					
7) S	A,A,A-TRIFLUOROTOLUENE(FID	9.45	12869278	180.4414253	ppb	
Spiked Amount	200.000 Range 62 - 128		Recovery	= 90.22%		
10) S	A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount	200.000 Range 55 - 122		Recovery	= 0.00%#		
	Target Compounds					
2) H,M	TPHG C4 - C12	0.00	21953	NoCal	ppm	
3) H,M	TPHG C5 - C12	8.61	10559095	0.1407826	ppm	
4) H,M	TPHG C6 - C12	8.61	10243185	0.1402930	ppm	
5) H,M	TPHGAK C6 to C10	8.61	7978159	0.1392962	ppm	
6) h,m	TPH (GC/FID) Low Fraction	8.61	8522165	0.1391384	ppm	
11) T,M	Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M	benzene	0.00	0	N.D.	ppb	d
13) T,M	toluene	0.00	0	N.D.	ppb	d
14) T,M	ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M	m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M	o-xylene	0.00	0	N.D.	ppb	d
17) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M	Naphthalene	0.00	0	N.D.	ppb	d

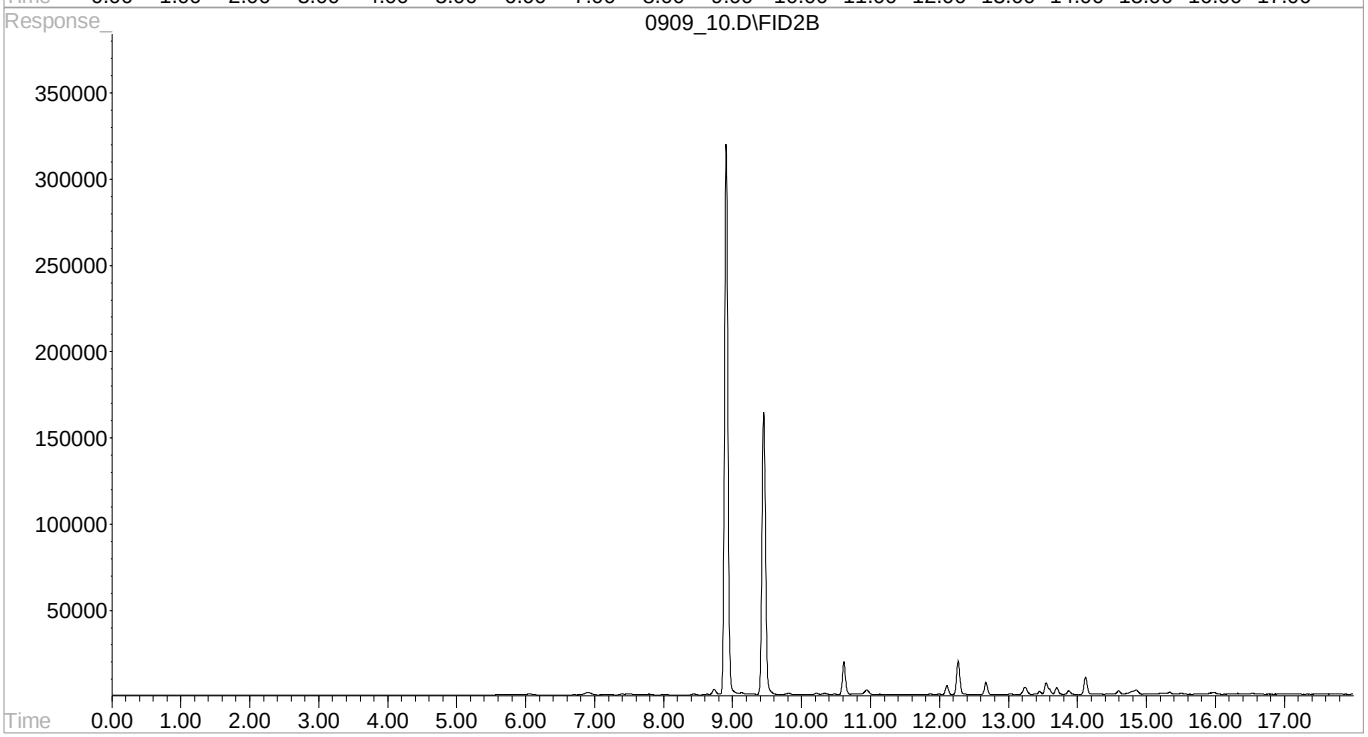
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

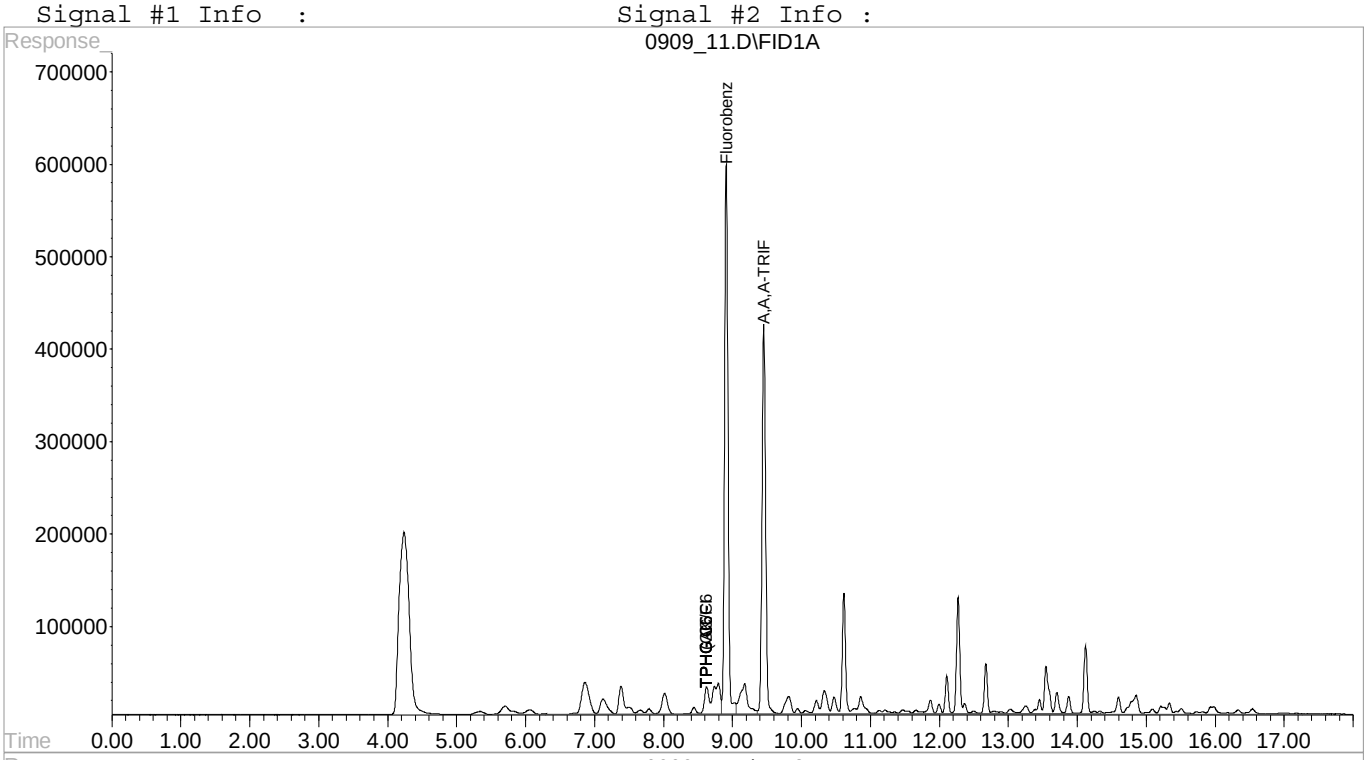
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20462932	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12578118	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	15182736	180.3023316	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 90.15%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	6919517	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22640	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	51145831	0.5775661	ppm
4) H,M TPHG C6 - C12	8.61	49799038	0.5776852	ppm
5) H,M TPHGAK C6 to C10	8.61	39017949	0.5769925	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	41695738	0.5765779	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	578168	NoCal	ppb
12) T,M benzene	8.74	729580	NoCal	ppb
13) T,M toluene	10.62	3100743	NoCal	ppb
14) T,M ethylbenzene	12.11	874442	NoCal	ppb
15) T,M m&p-xylene	12.27	3324206	NoCal	ppb
16) T,M o-xylene	12.67	1141668	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	686617	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	1752731	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

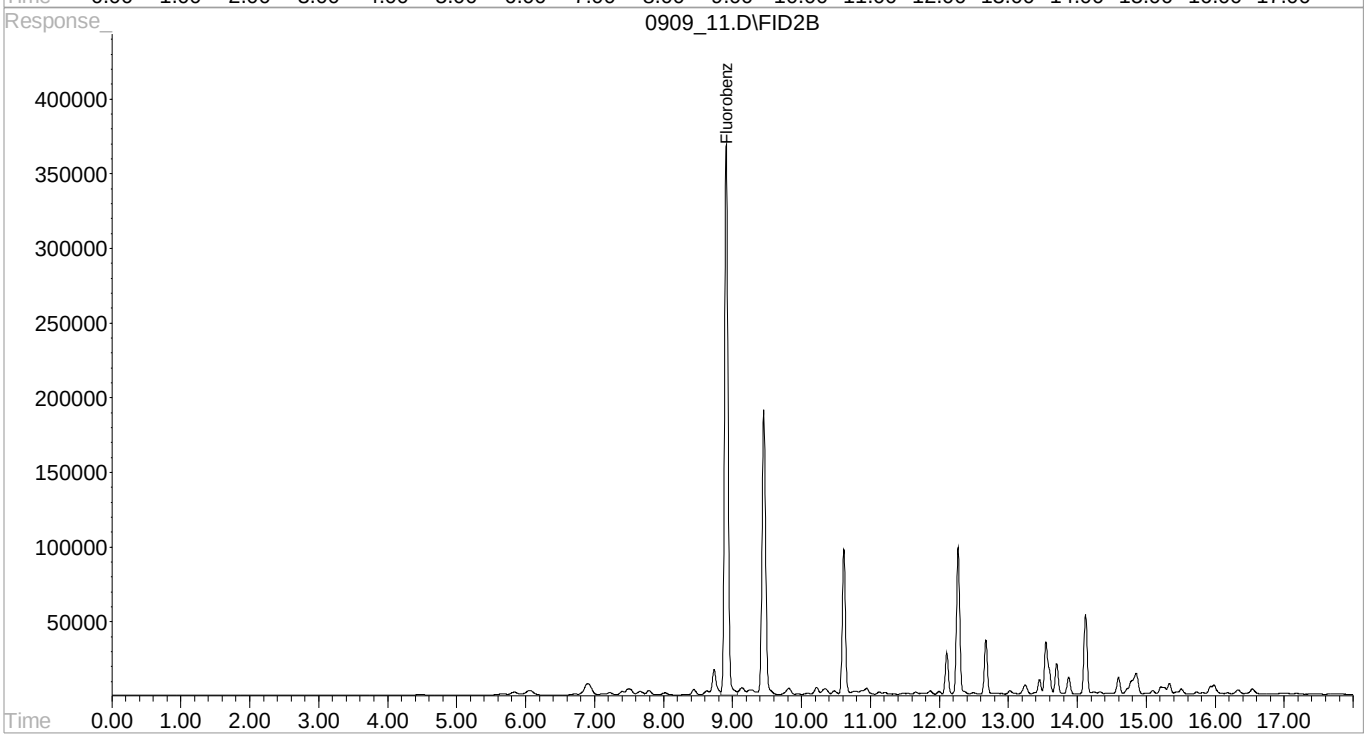
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH   Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On    :  9 Sep 2014   4:56 pm                    Operator: 621
Sample    : STD GRO .55 ppm 14I07115                 Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

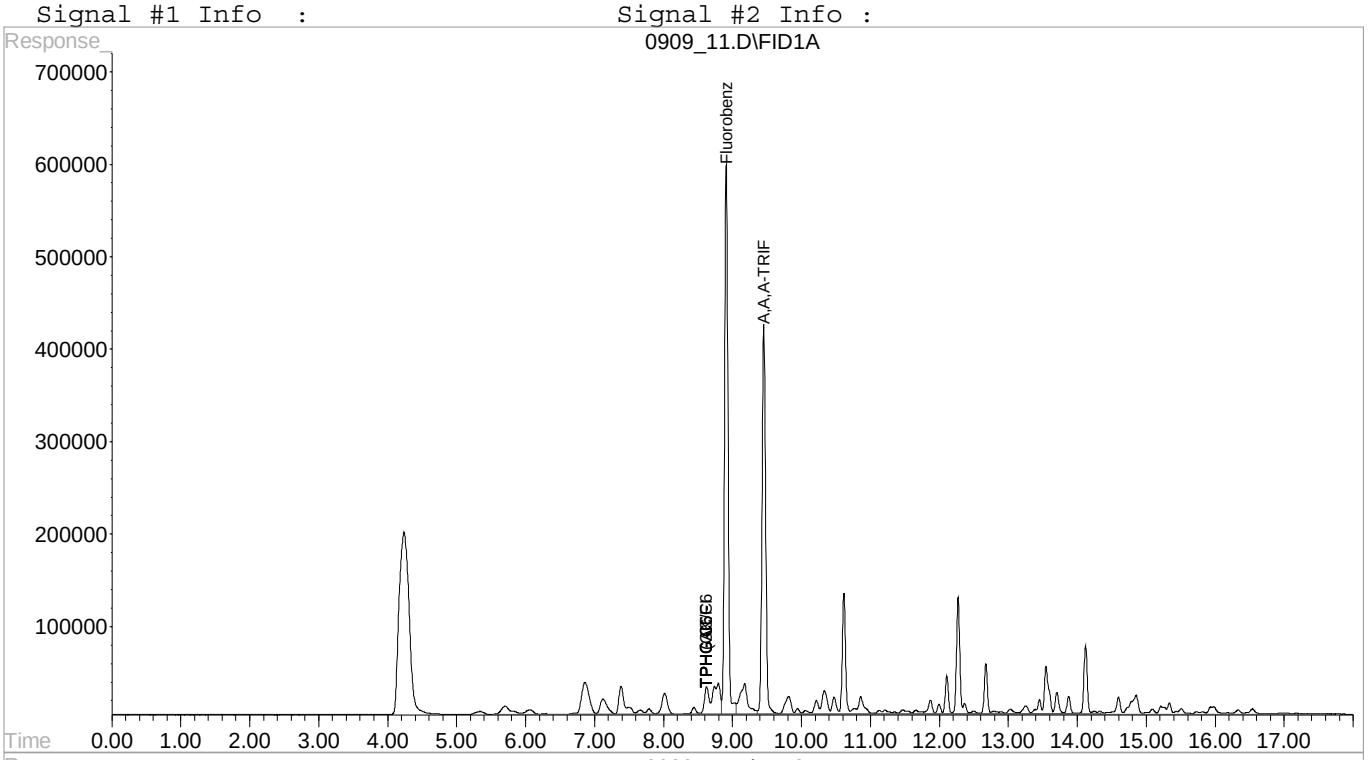
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20462932	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	15182736	180.3023316	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	90.15%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22640	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	51145831	0.5775661	ppm
4) H,M TPHG C6 - C12	8.61	49799038	0.5776852	ppm
5) H,M TPHGAK C6 to C10	8.61	39017949	0.5769925	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	41695738	0.5765779	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

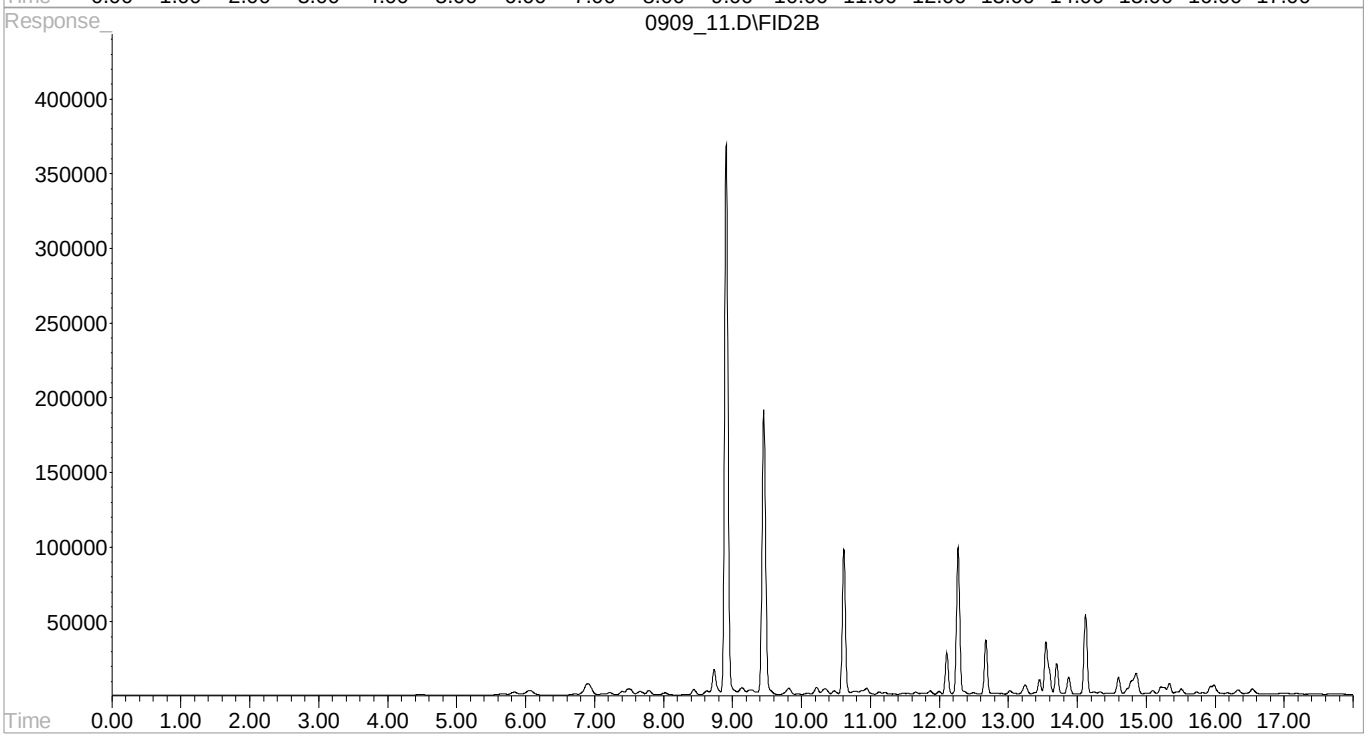
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

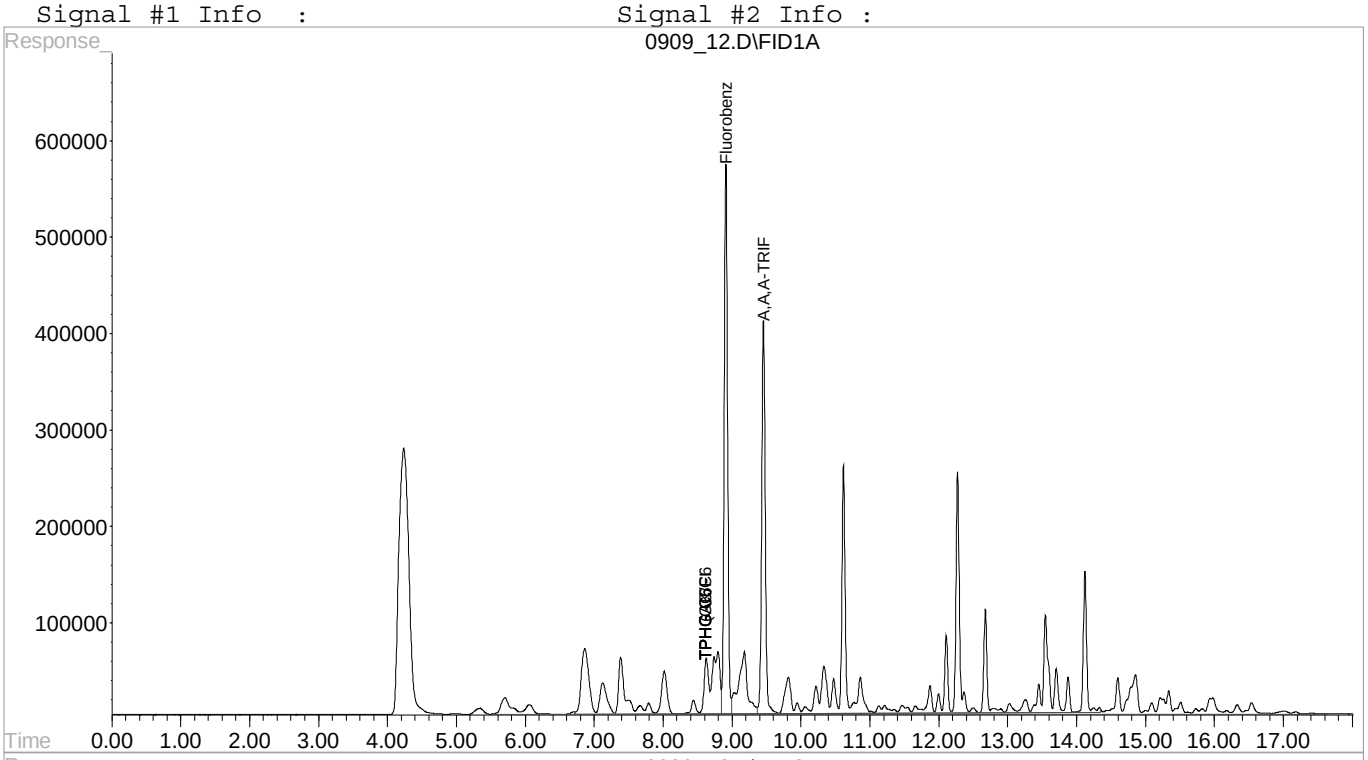
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	8.91	19430940	200.0000000	ppb
9)	I Fluorobenzene #2	8.91	12201521	200.0000000	ppb
	System Monitoring Compounds				
7)	S A,A,A-TRIFLUOROTOLUENE(FID	9.46	14968546	187.1996338	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery =	93.60%		
10)	S A,A,A-TRIFLUOROTOLUENE(PID	9.46	6813366	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery =	0.00%#		
	Target Compounds				
2)	H,M TPHG C4 - C12	0.00	25178	NoCal	ppm
3)	H,M TPHG C5 - C12	8.61	100785390	1.1985691	ppm
4)	H,M TPHG C6 - C12	8.61	98177538	1.1993791	ppm
5)	H,M TPHGAK C6 to C10	8.61	76606430	1.1930125	ppm
6)	h,m TPH (GC/FID) Low Fraction	8.61	81904436	1.1927455	ppm
11)	T,M Methyl Tert-Butyl Ether	6.90	1137356	NoCal	ppb
12)	T,M benzene	8.74	1440217	NoCal	ppb
13)	T,M toluene	10.62	6038749	NoCal	ppb
14)	T,M ethylbenzene	12.11	1726469	NoCal	ppb
15)	T,M m&p-xylene	12.27	6509973	NoCal	ppb
16)	T,M o-xylene	12.68	2242694	NoCal	ppb
17)	T,M 1,3,5-Trimethylbenzene	13.70	1350723	NoCal	ppb
18)	T,M 1,2,4-Trimethylbenzene	14.12	3498566	NoCal	ppb
19)	T,M Naphthalene	17.40	38980	NoCal	ppb

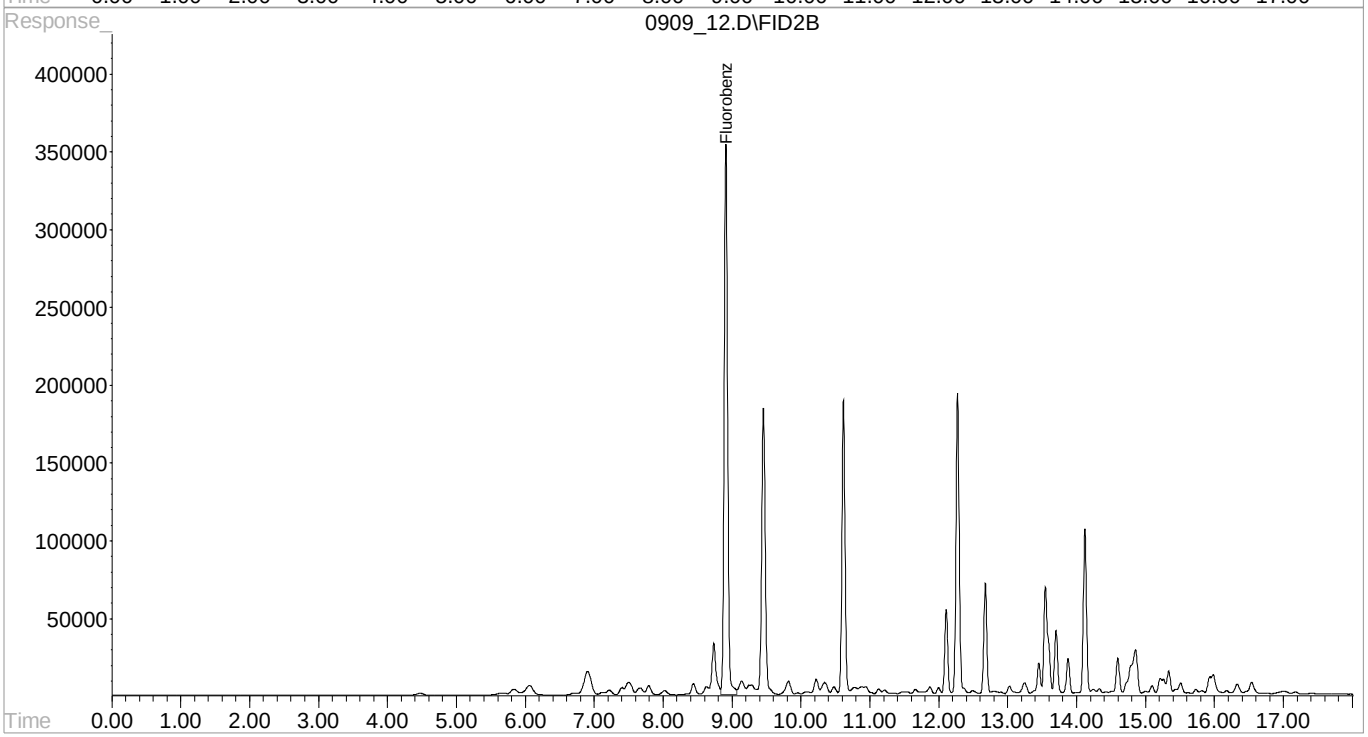
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

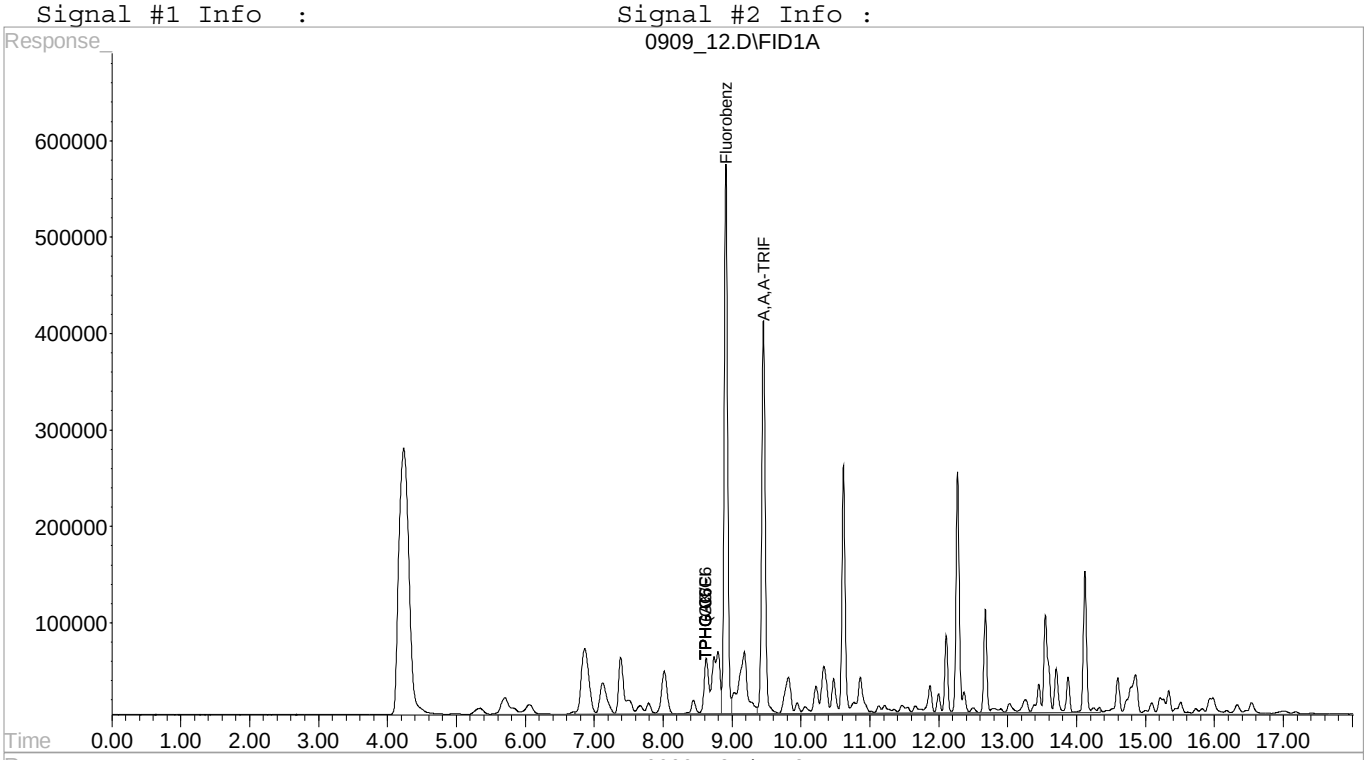
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1) I	Fluorobenzene #1	8.91	19430940	200.0000000	ppb
9) I	Fluorobenzene #2	0.00	0	N.D.	ppb d
	System Monitoring Compounds				
7) S	A,A,A-TRIFLUOROTOLUENE(FID	9.46	14968546	187.1996338	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery	=	93.60%	
10) S	A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 55 - 122	Recovery	=	0.00%#	
	Target Compounds				
2) H,M	TPHG C4 - C12	0.00	25178	NoCal	ppm
3) H,M	TPHG C5 - C12	8.61	100785390	1.1985691	ppm
4) H,M	TPHG C6 - C12	8.61	98177538	1.1993791	ppm
5) H,M	TPHGAK C6 to C10	8.61	76606430	1.1930125	ppm
6) h,m	TPH (GC/FID) Low Fraction	8.61	81904436	1.1927455	ppm
11) T,M	Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M	benzene	0.00	0	N.D.	ppb d
13) T,M	toluene	0.00	0	N.D.	ppb d
14) T,M	ethylbenzene	0.00	0	N.D.	ppb d
15) T,M	m&p-xylene	0.00	0	N.D.	ppb d
16) T,M	o-xylene	0.00	0	N.D.	ppb d
17) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M	Naphthalene	0.00	0	N.D.	ppb d

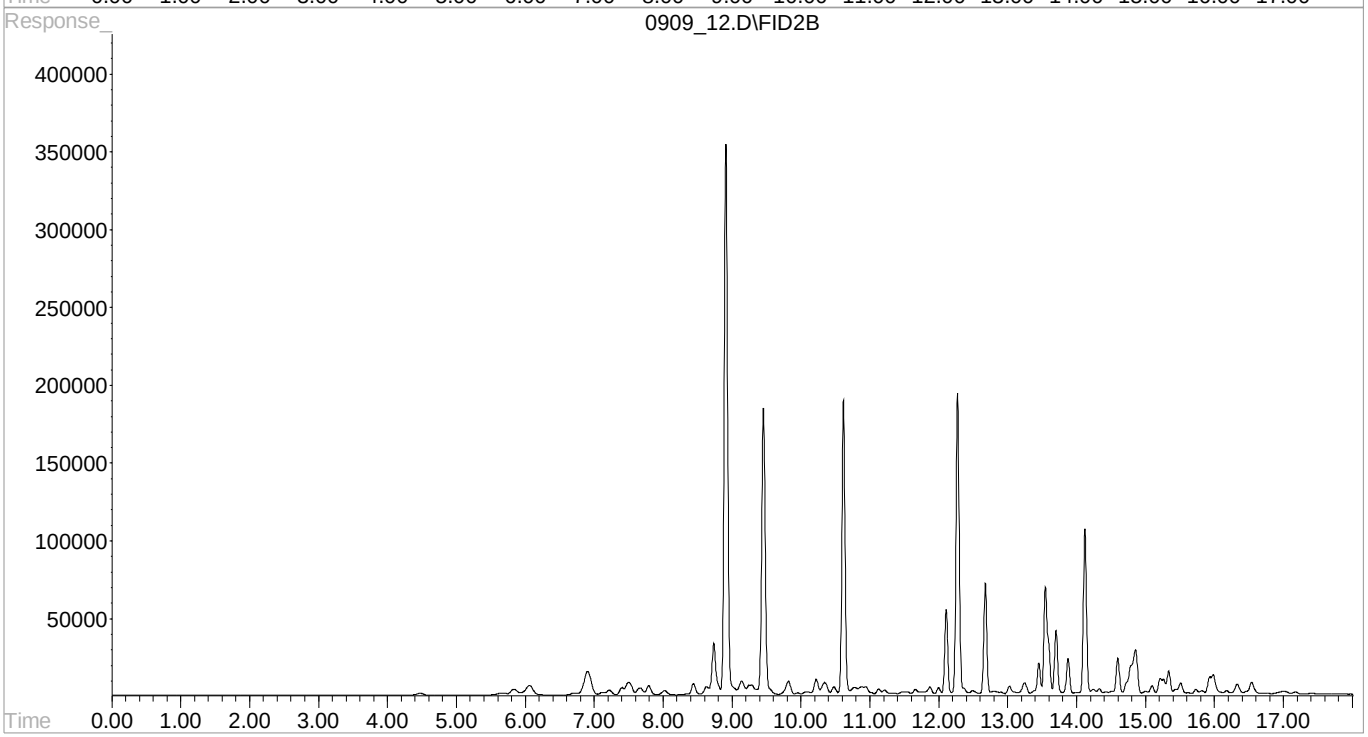
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH   Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On    :  9 Sep 2014   5:46 pm                    Operator: 621
Sample    : STD GRO 2.75 ppm 14I07115                Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

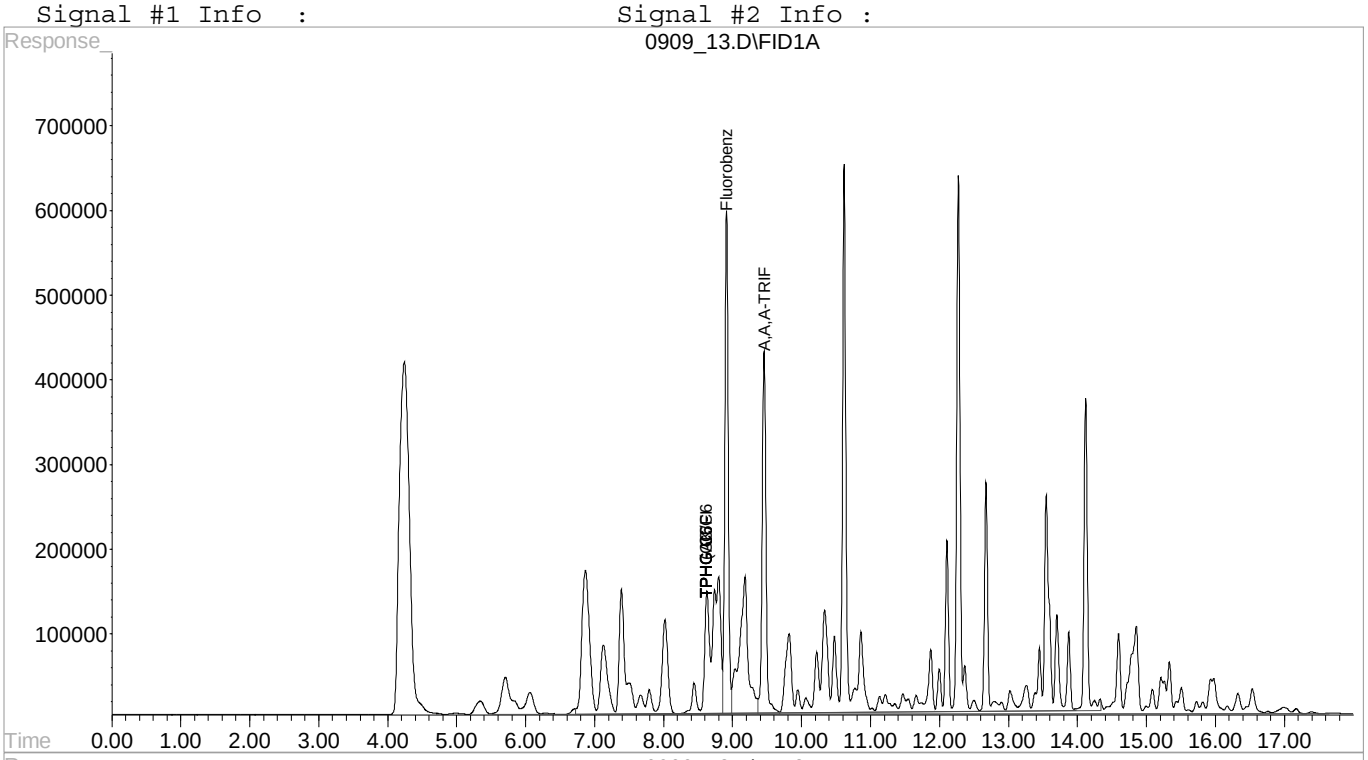
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20518306	200.0000000	ppb
9) I Fluorobenzene #2	8.91	13034942	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	16469130	195.0510729	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 97.53%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	7505633	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22983	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	252374027	2.8422513	ppm
4) H,M TPHG C6 - C12	8.61	245715085	2.8426834	ppm
5) H,M TPHGAK C6 to C10	8.61	192144860	2.8337456	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	205455674	2.8334191	ppm
11) T,M Methyl Tert-Butyl Ether	6.91	2779423	NoCal	ppb
12) T,M benzene	8.74	3596781	NoCal	ppb
13) T,M toluene	10.62	14839176	NoCal	ppb
14) T,M ethylbenzene	12.11	4301547	NoCal	ppb
15) T,M m&p-xylene	12.27	16016206	NoCal	ppb
16) T,M o-xylene	12.67	5557318	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	3337632	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	8588491	NoCal	ppb
19) T,M Naphthalene	17.39	104290	NoCal	ppb

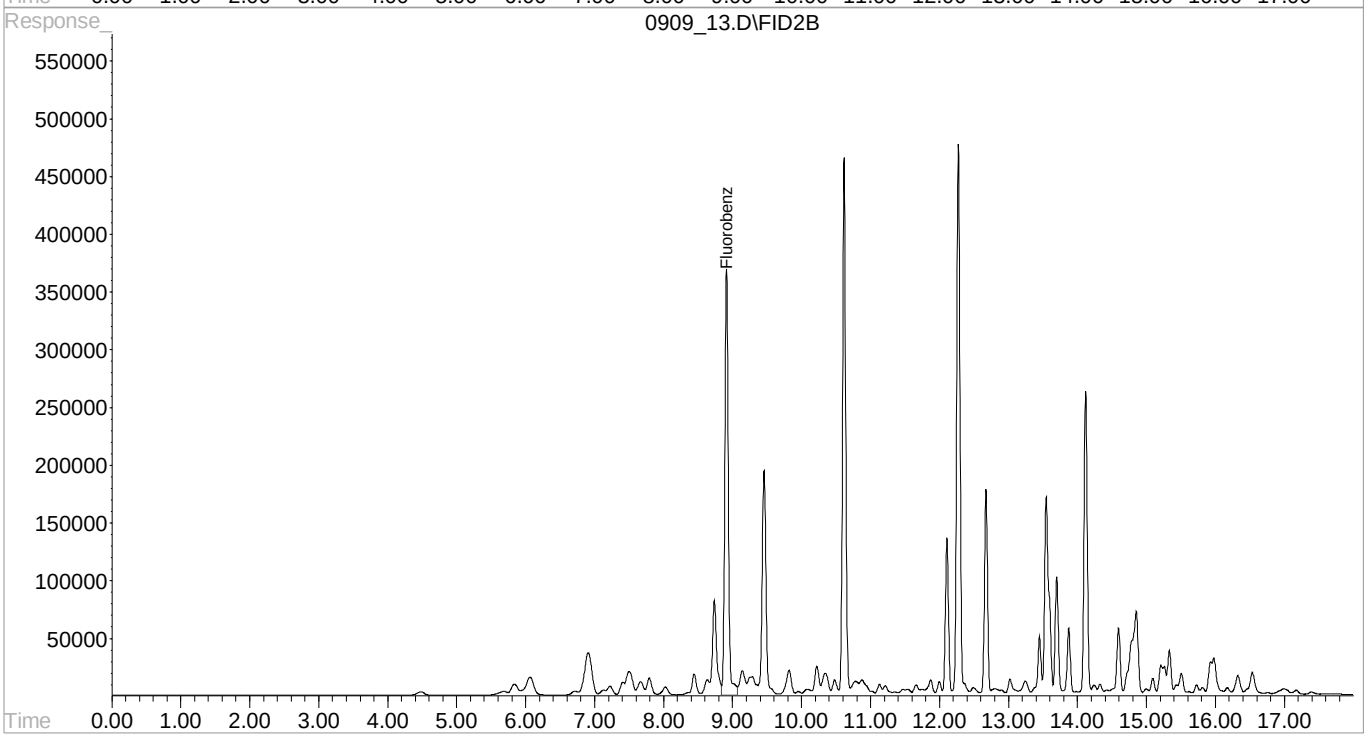
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

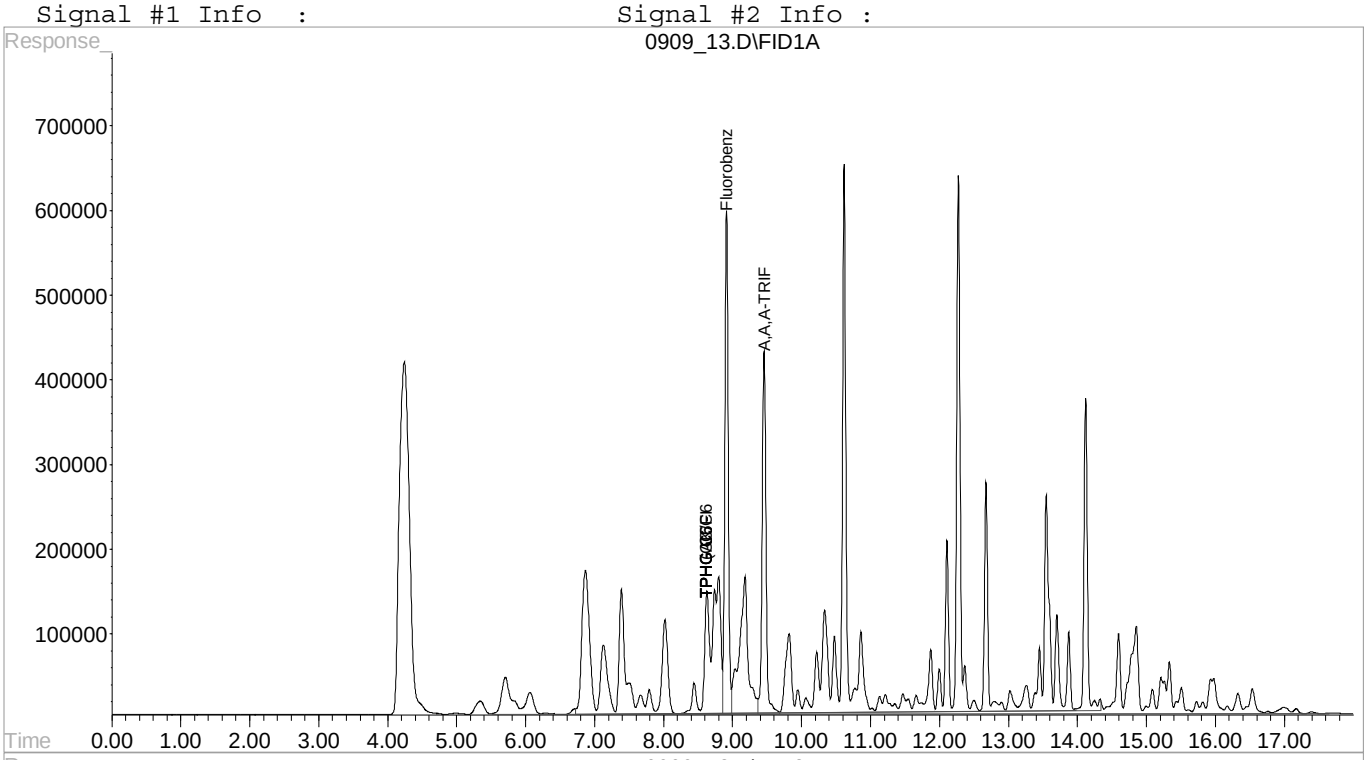
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	8.91	20518306	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	16469130	195.0510729	ppb	
Spiked Amount 200.000 Range 62 - 128		Recovery =	97.53%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	0.00	22983	NoCal	ppm	
3) H,M TPHG C5 - C12	8.61	252374027	2.8422513	ppm	
4) H,M TPHG C6 - C12	8.61	245715085	2.8426834	ppm	
5) H,M TPHGAK C6 to C10	8.61	192144860	2.8337456	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.61	205455674	2.8334191	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

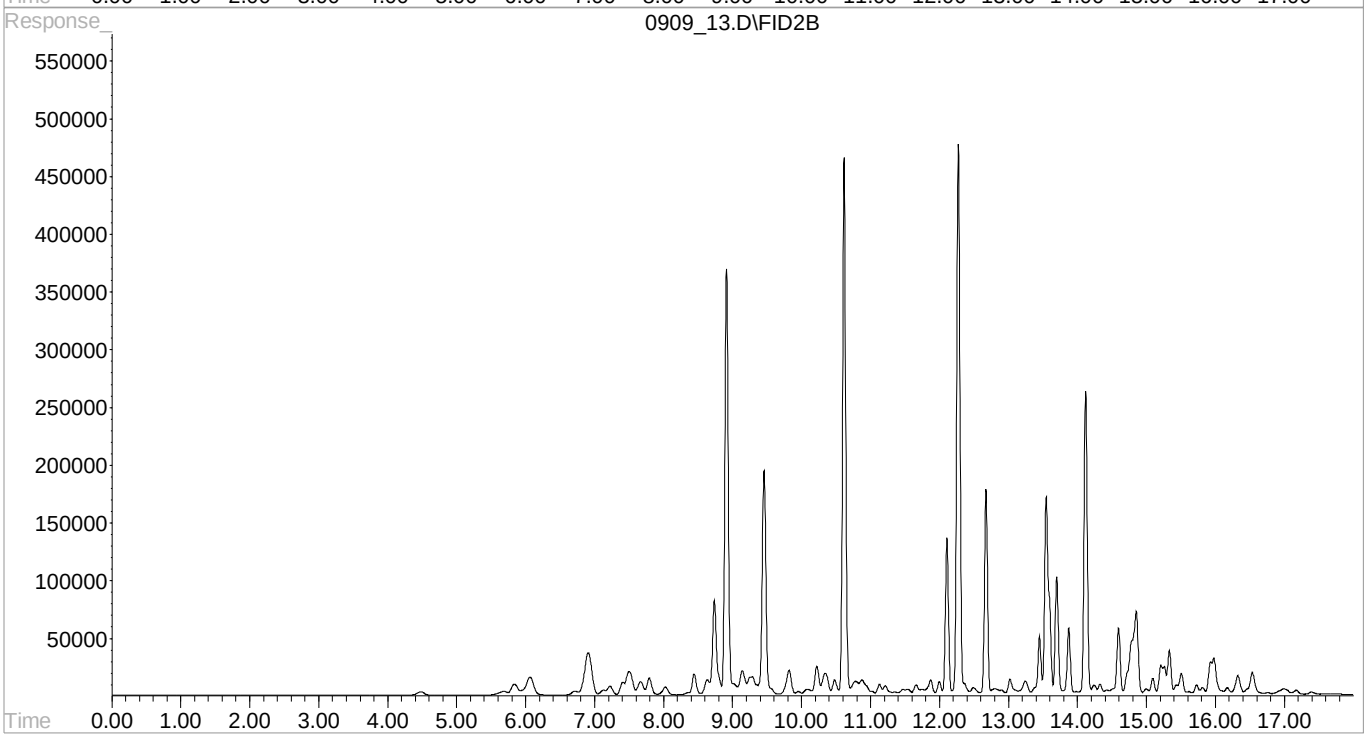
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

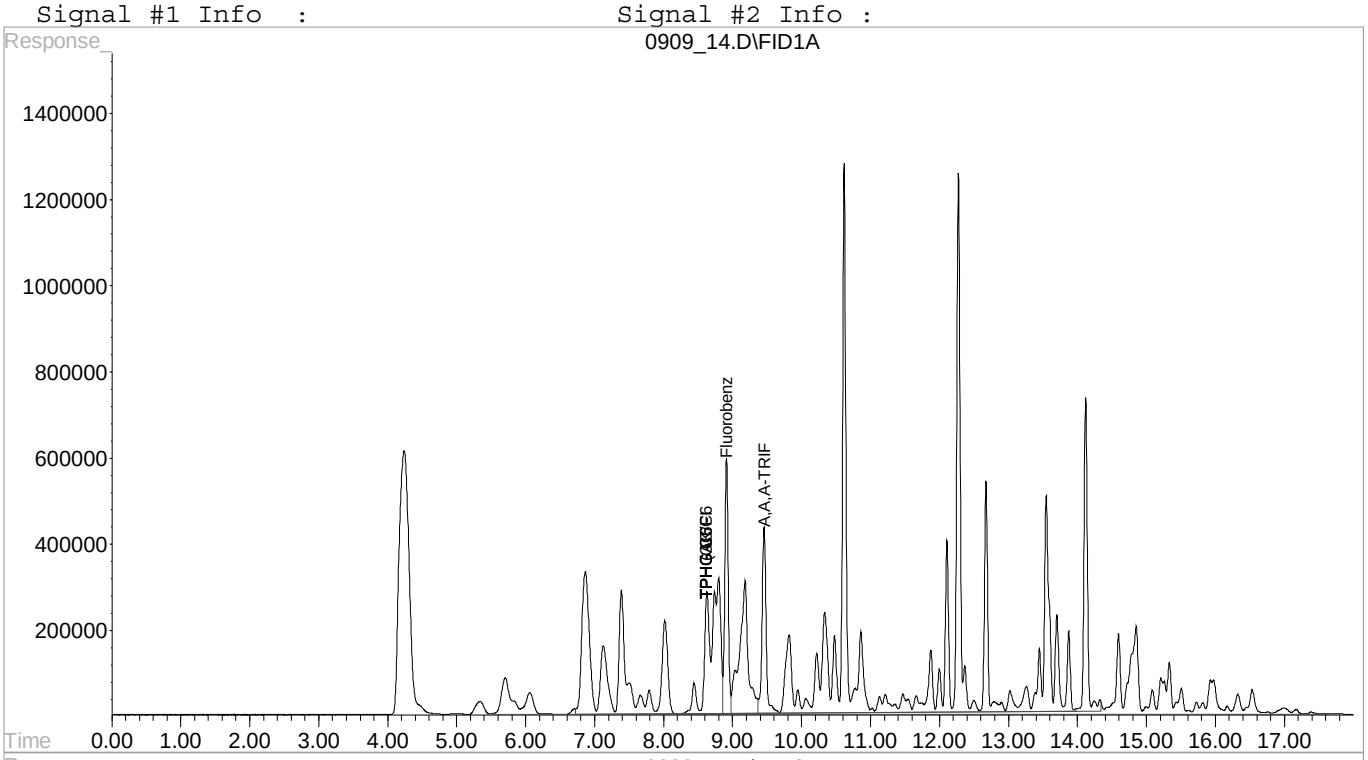
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20714043	200.0000000	ppb
9) I Fluorobenzene #2	8.91	13485622	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	17900493	210.0000000	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 105.00%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	8184040	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	23791	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	493024223	5.5000000	ppm
4) H,M TPHG C6 - C12	8.61	479942720	5.5000000	ppm
5) H,M TPHGAK C6 to C10	8.61	376490472	5.5000000	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	402618193	5.5000000	ppm
11) T,M Methyl Tert-Butyl Ether	6.91	5217055	NoCal	ppb
12) T,M benzene	8.74	6971112	NoCal	ppb
13) T,M toluene	10.62	28387174	NoCal	ppb
14) T,M ethylbenzene	12.11	8376767	NoCal	ppb
15) T,M m&p-xylene	12.27	30423638	NoCal	ppb
16) T,M o-xylene	12.67	10737408	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	6457174	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	16548011	NoCal	ppb
19) T,M Naphthalene	17.39	260983	NoCal	ppb

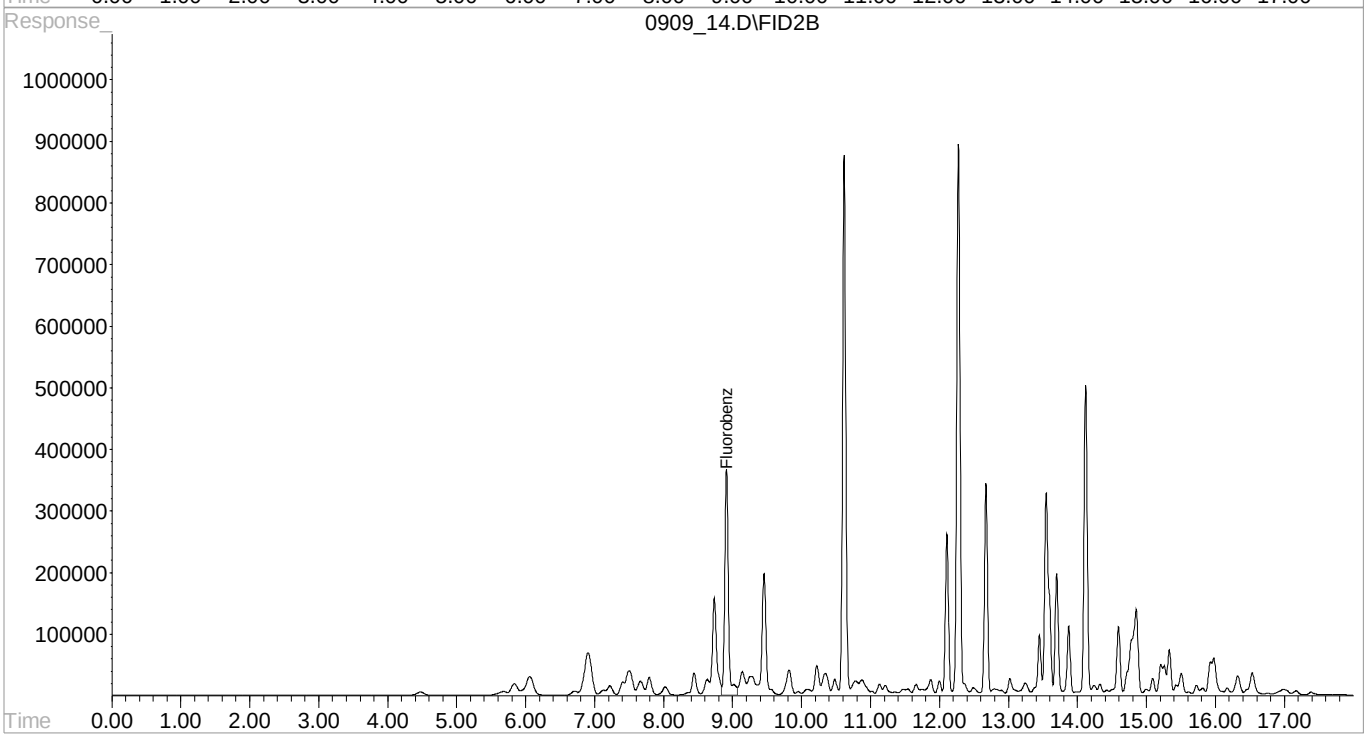
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH   Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On    :  9 Sep 2014   6:11 pm                    Operator: 621
Sample    : MSTD GRO 5.5g ppm 14I07115               Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

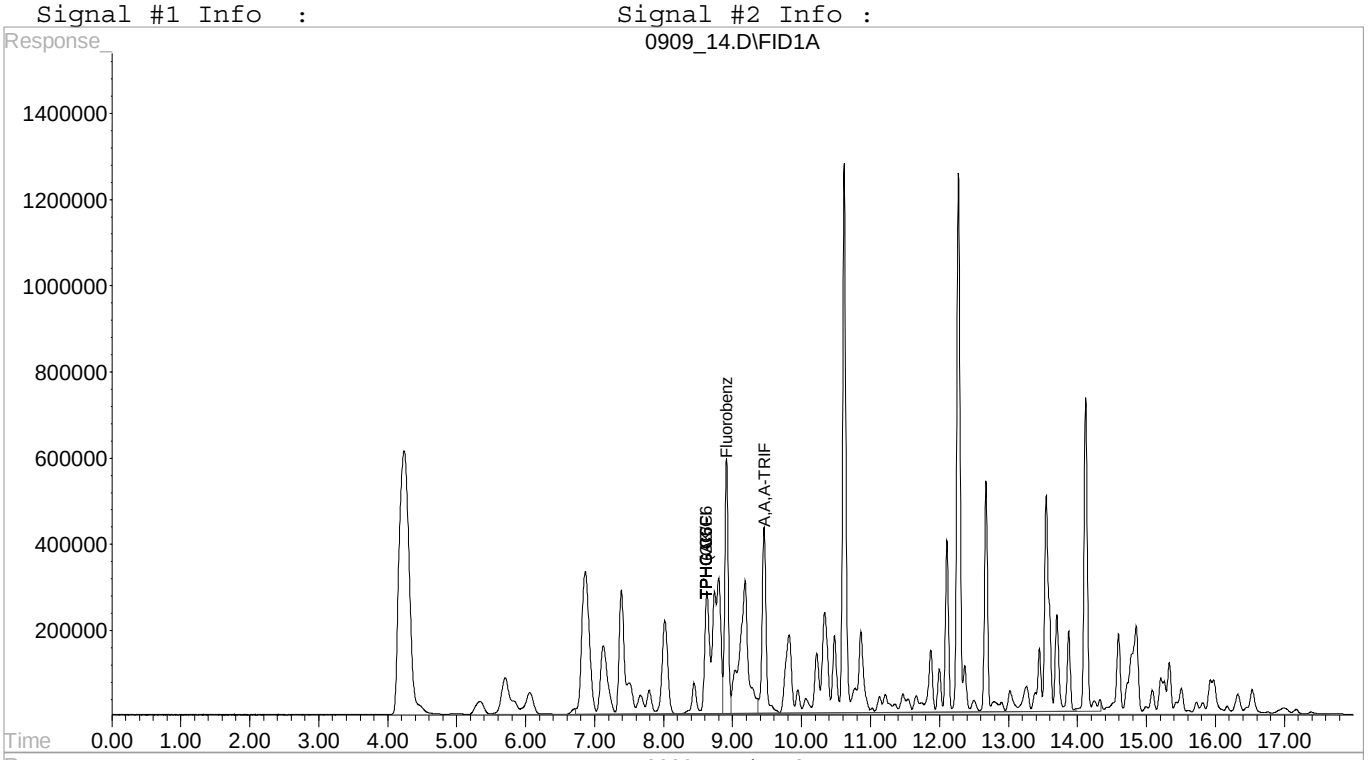
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20714043	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	17900493	210.0000000	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery	= 105.00%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	23791	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	493024223	5.5000000	ppm
4) H,M TPHG C6 - C12	8.61	479942720	5.5000000	ppm
5) H,M TPHGAK C6 to C10	8.61	376490472	5.5000000	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	402618193	5.5000000	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

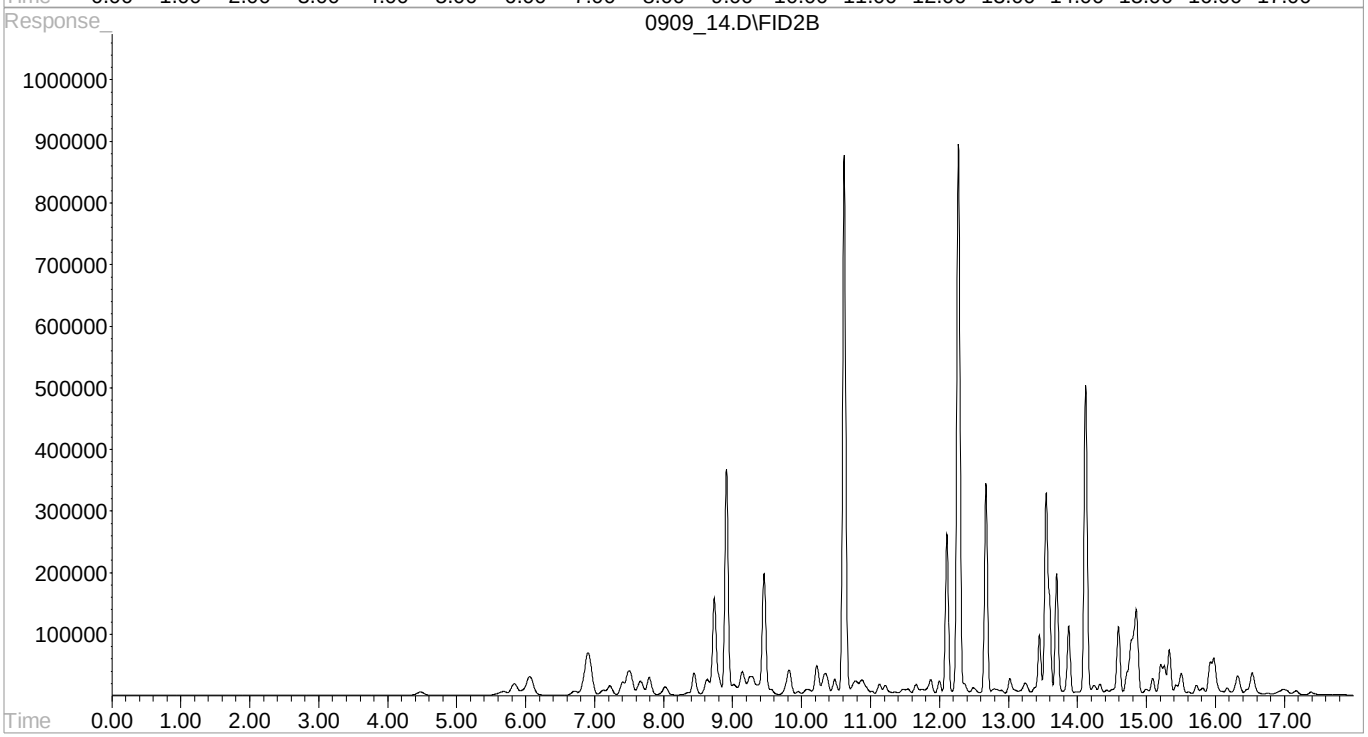
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

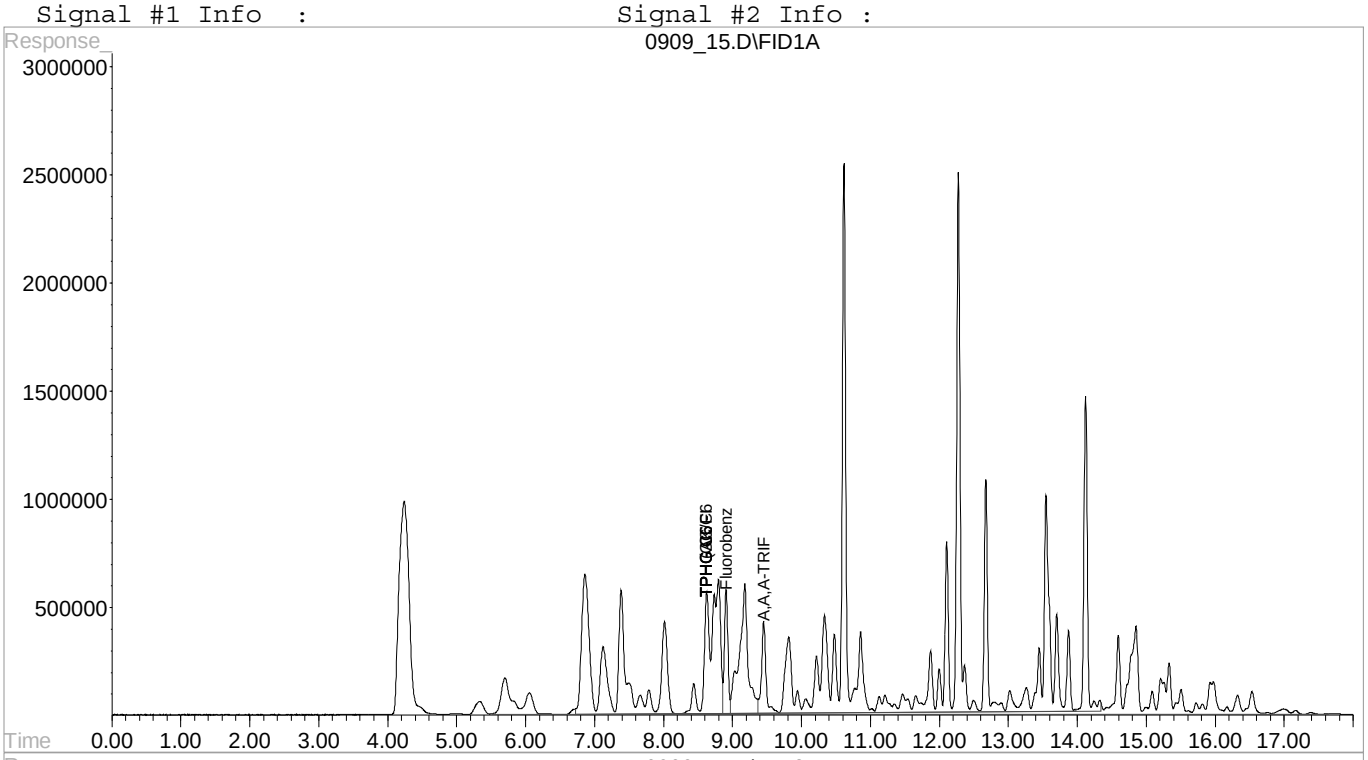
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20567044	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12498933	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	20113067	237.6433204	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 118.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	9203527	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19188	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	976229810	10.9683045	ppm
4) H,M TPHG C6 - C12	8.61	950064229	10.9652680	ppm
5) H,M TPHGAK C6 to C10	8.61	751019947	11.0497684	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	803119260	11.0494927	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	9710007	NoCal	ppb
12) T,M benzene	8.73	13792307	NoCal	ppb
13) T,M toluene	10.62	52899551	NoCal	ppb
14) T,M ethylbenzene	12.11	16221436	NoCal	ppb
15) T,M m&p-xylene	12.27	55305354	NoCal	ppb
16) T,M o-xylene	12.67	20593315	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	12430798	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	31672897	NoCal	ppb
19) T,M Naphthalene	17.38	466706	NoCal	ppb

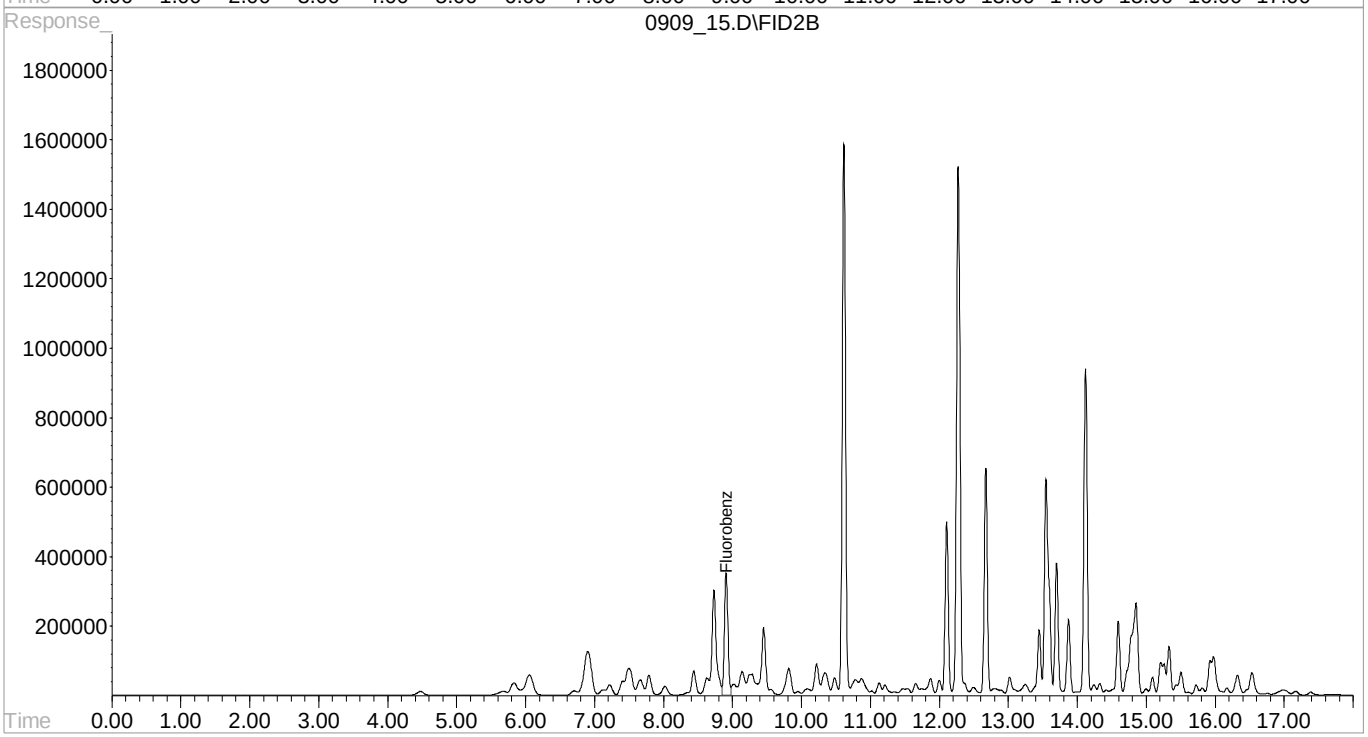
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

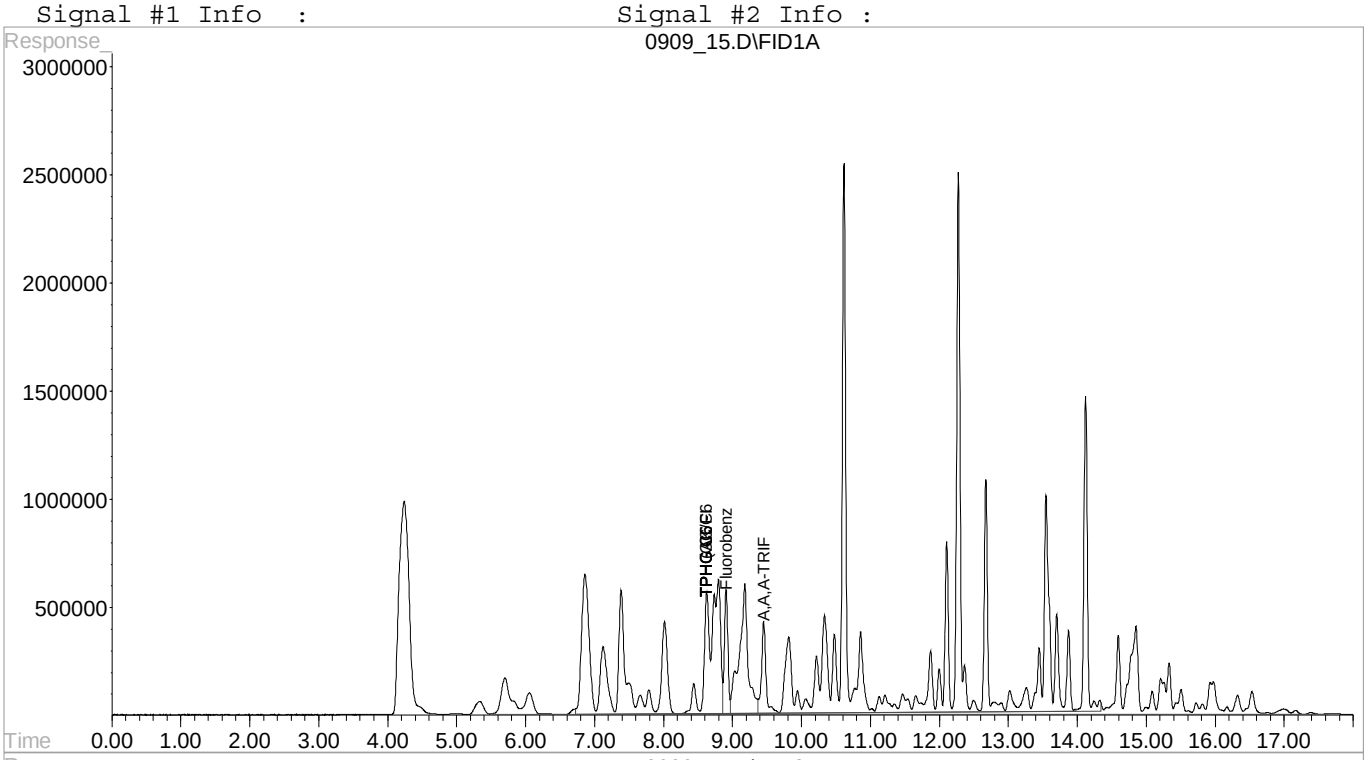
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20567044	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	20113067	237.6433204	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 118.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19188	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	976229810	10.9683045	ppm
4) H,M TPHG C6 - C12	8.61	950064229	10.9652680	ppm
5) H,M TPHGAK C6 to C10	8.61	751019947	11.0497684	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	803119260	11.0494927	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

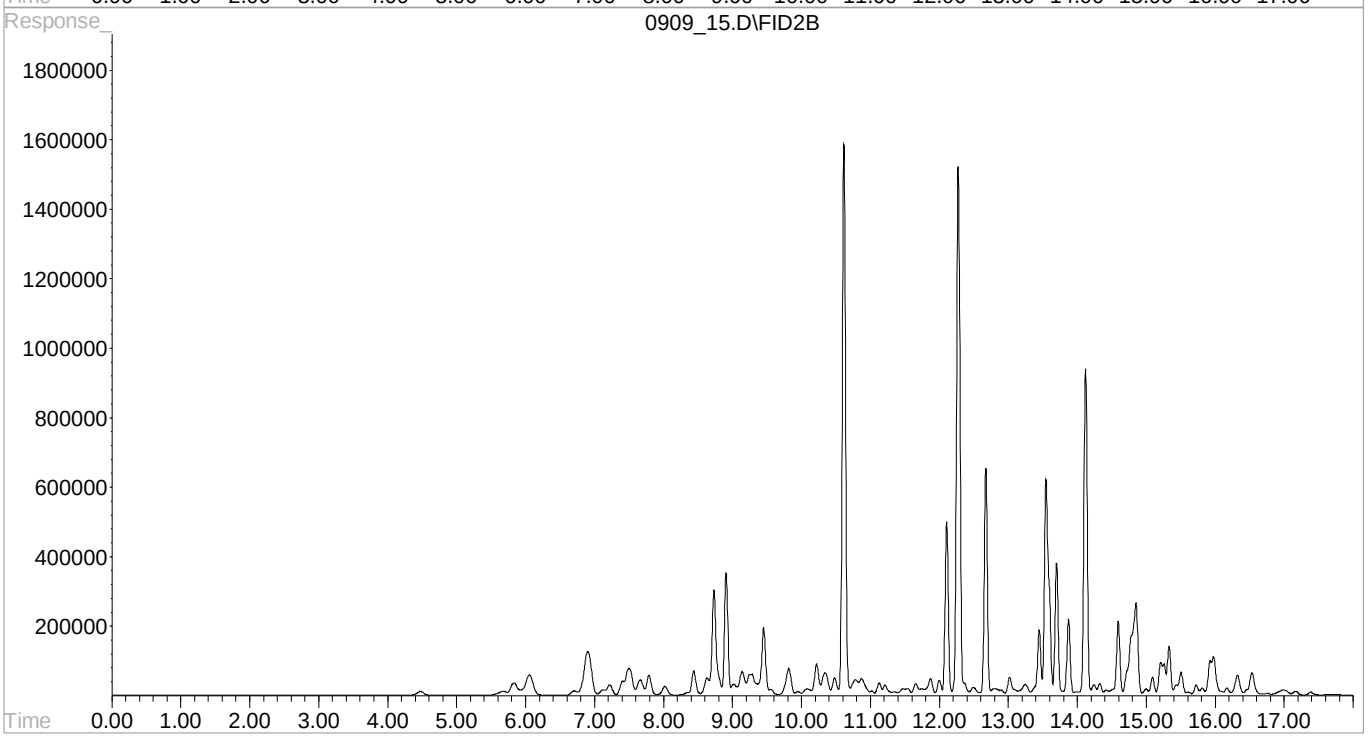
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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
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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

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Computer Name : VOCCOMPV
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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
12065 Lebanon Rd., Mt. Juliet, TN 37122

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

PDF Generated On: 09/24/2014 By: Ben Baker

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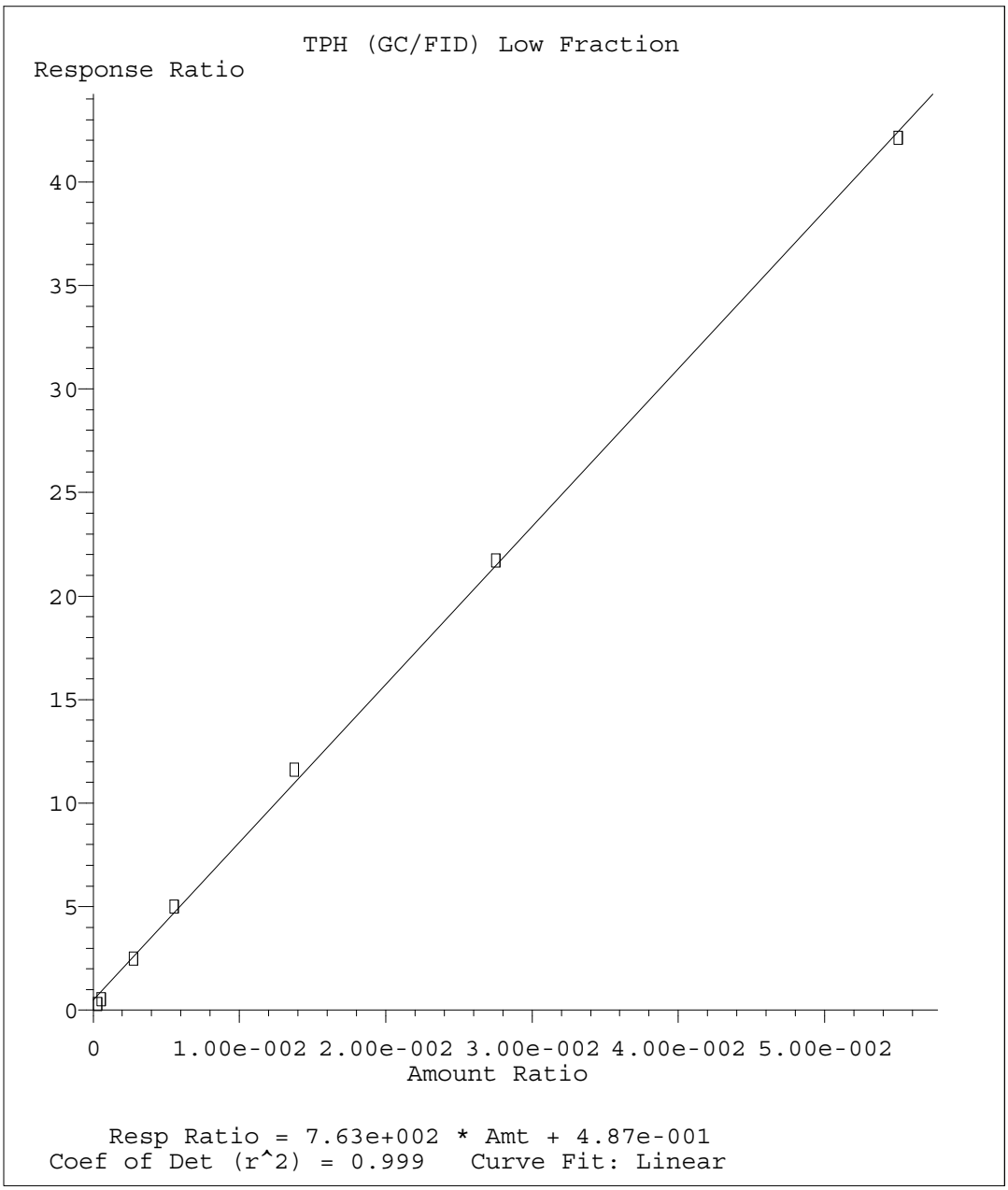
12065 Lebanon Rd., Mt. Juliet, TN 37122

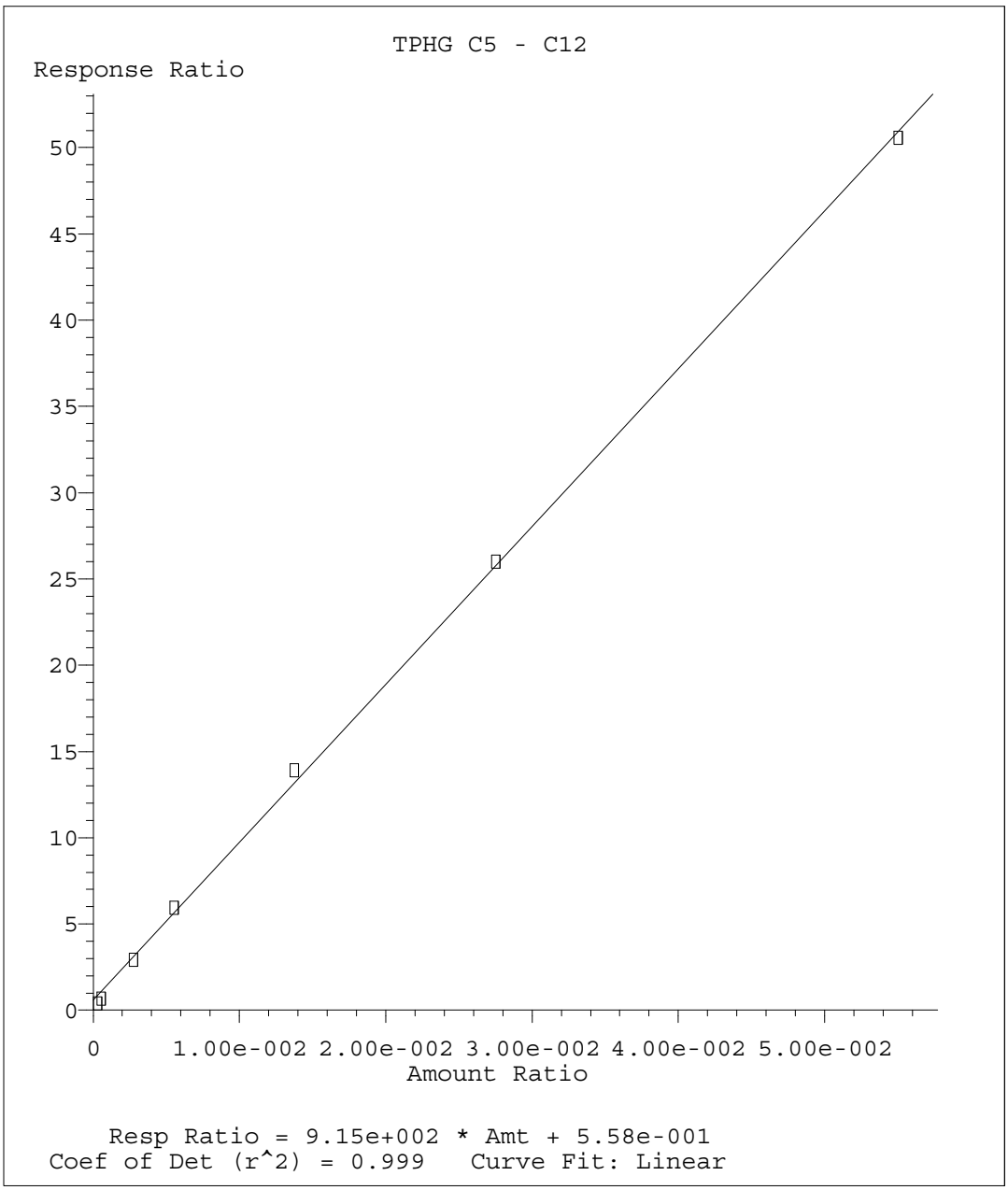
Manual Integrations - Audit Trail

Instrument ID	: VOCGC10	Method	: BG10I24N
Released By	: Ben Baker	Review Method	: AK101
Released On	: 9/24/2014 9:35:50 PM	Review Protocol	: AK

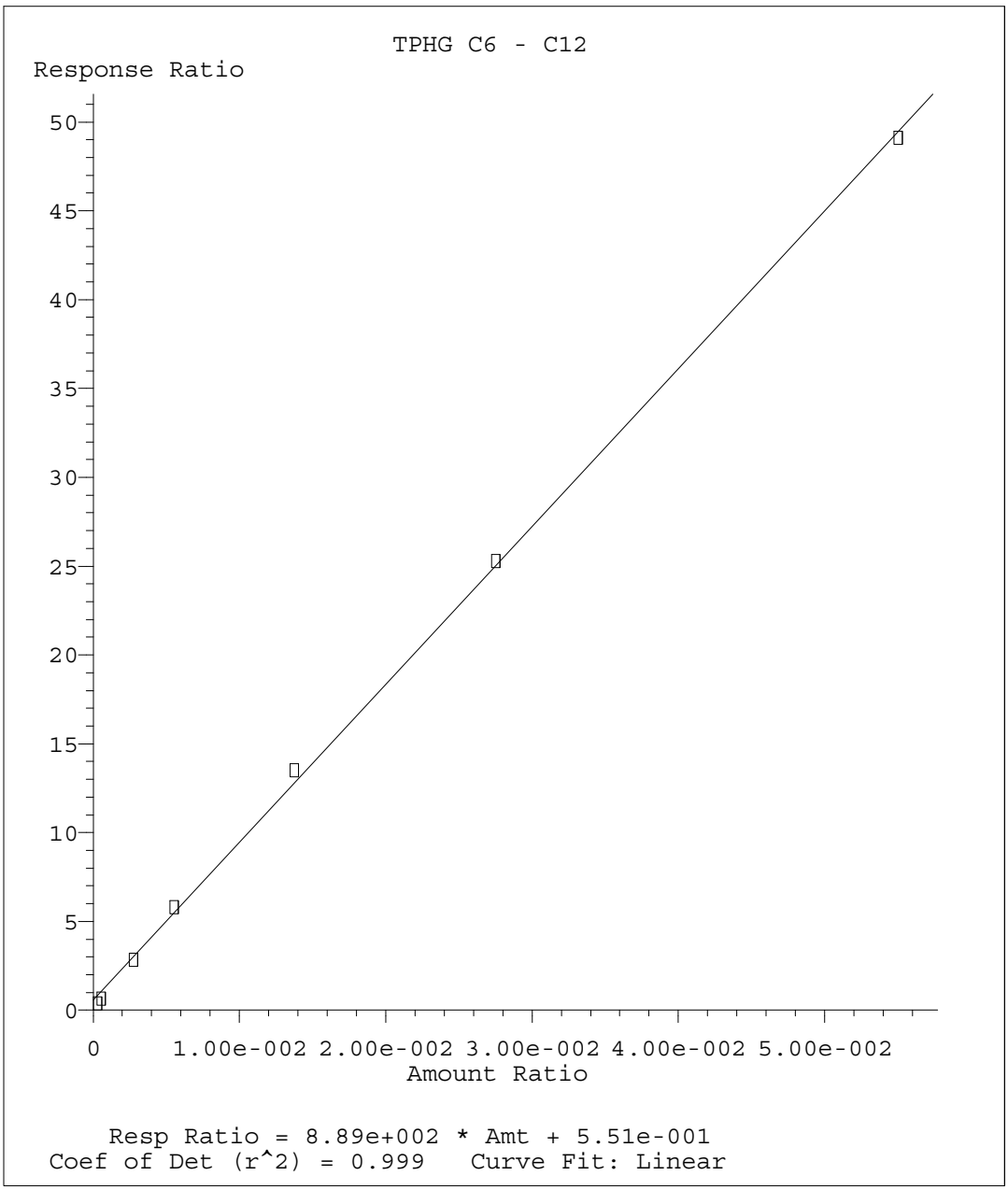
File ID	Level ID	Parameter	Old Conc.	New Conc.	Old Resp.	New Resp.



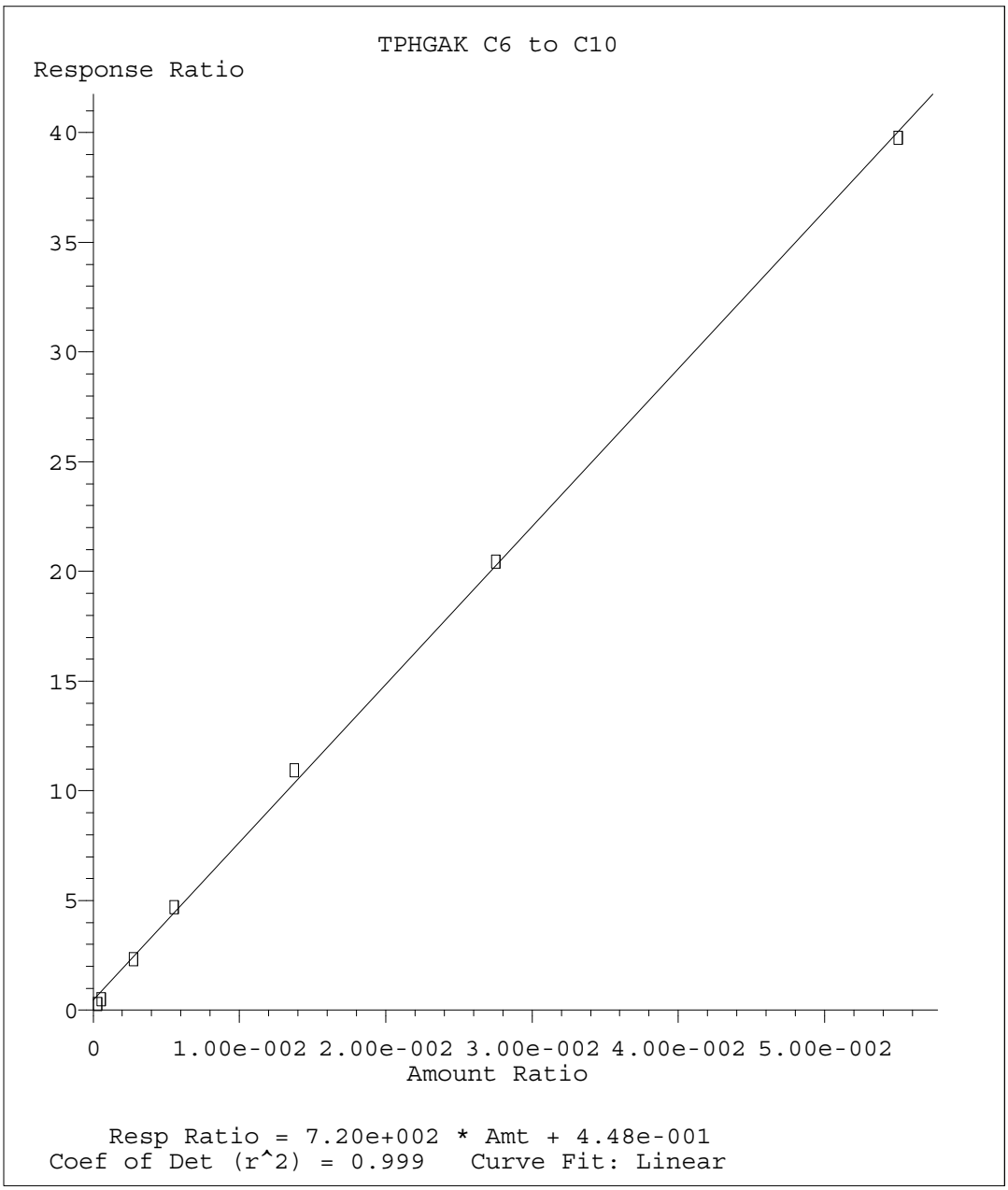
Method Name: C:\HPCHEM\1\METHODS\BG10I24N.M



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 :

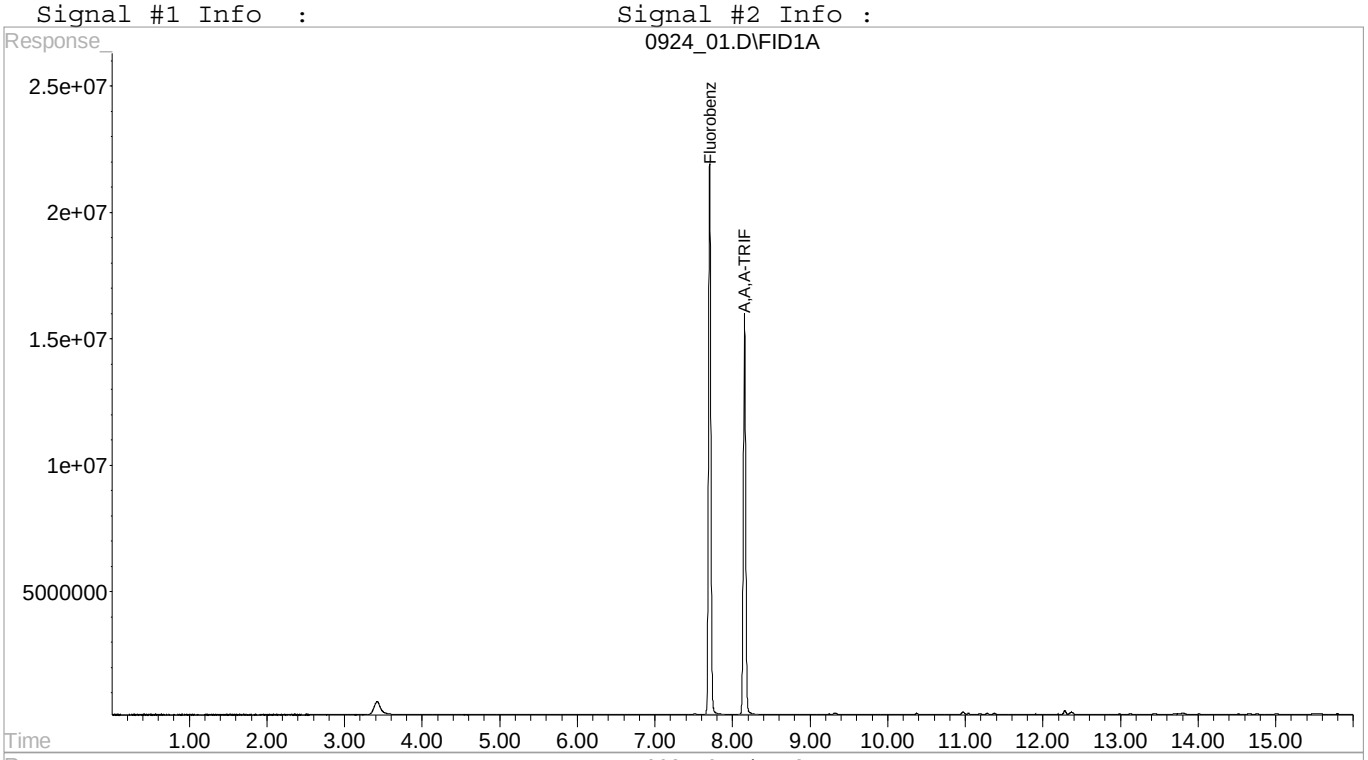
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.70	454837673	200.0000000	ppb
8) I Fluorobenzene #2	7.70	1476310400	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.15	333238434	182.6681137	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

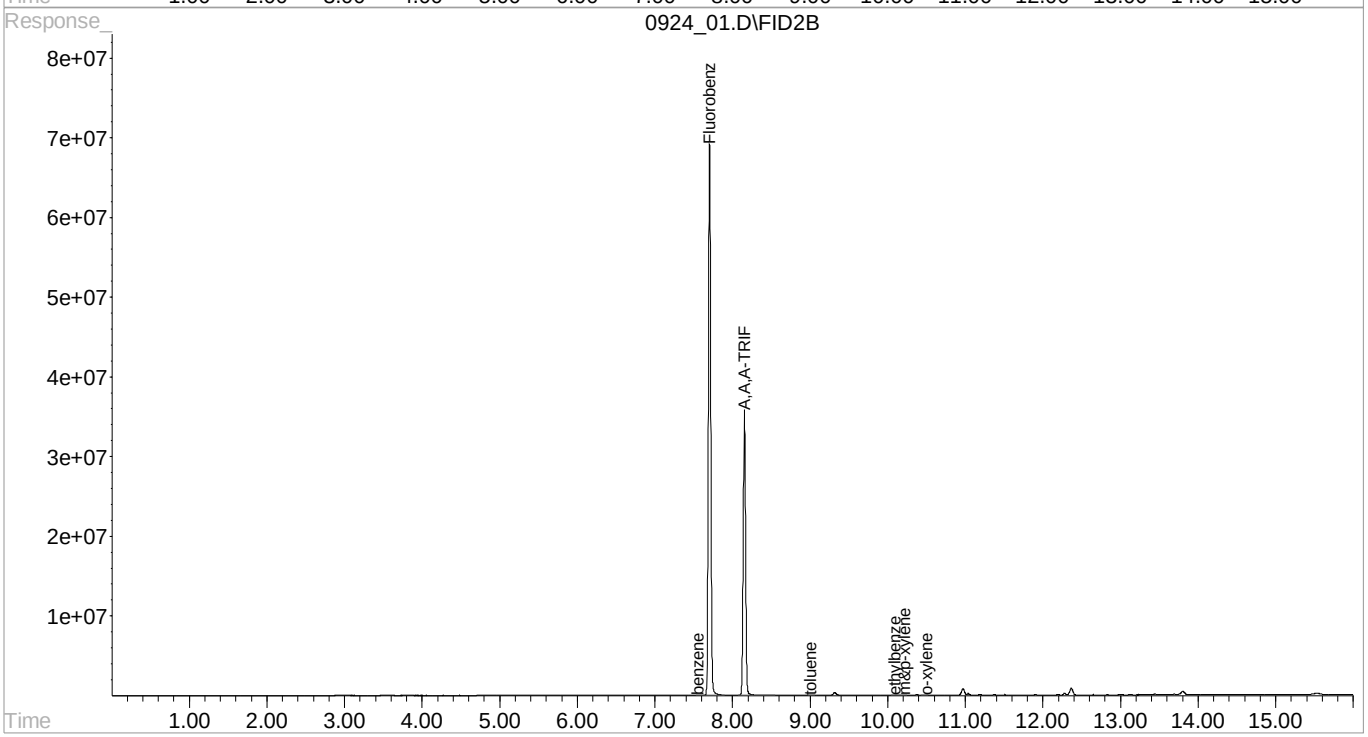
Quantitation Report (QT Reviewed)

```
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 :

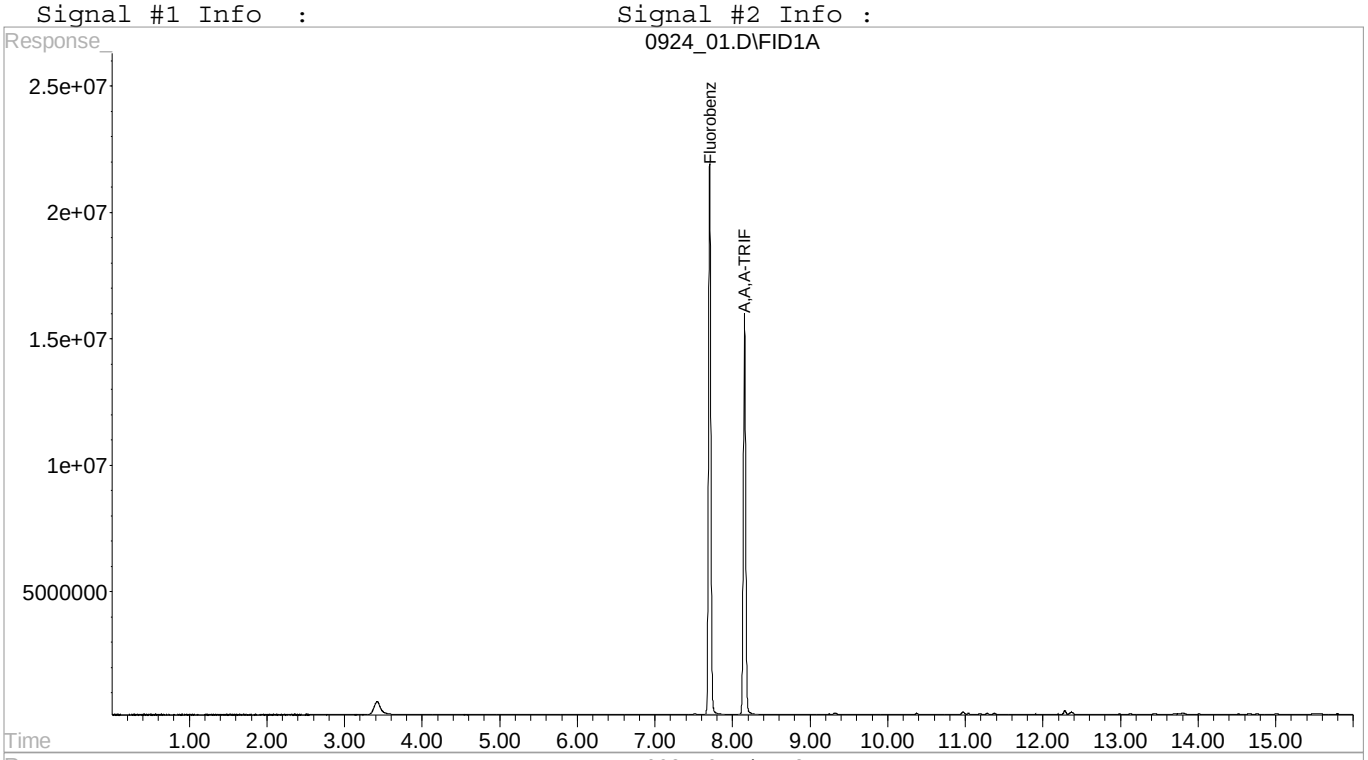
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.70	454837673	200.0000000	ppb
8) I Fluorobenzene #2	7.70	1476310400	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.15	333238434	182.6681137	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

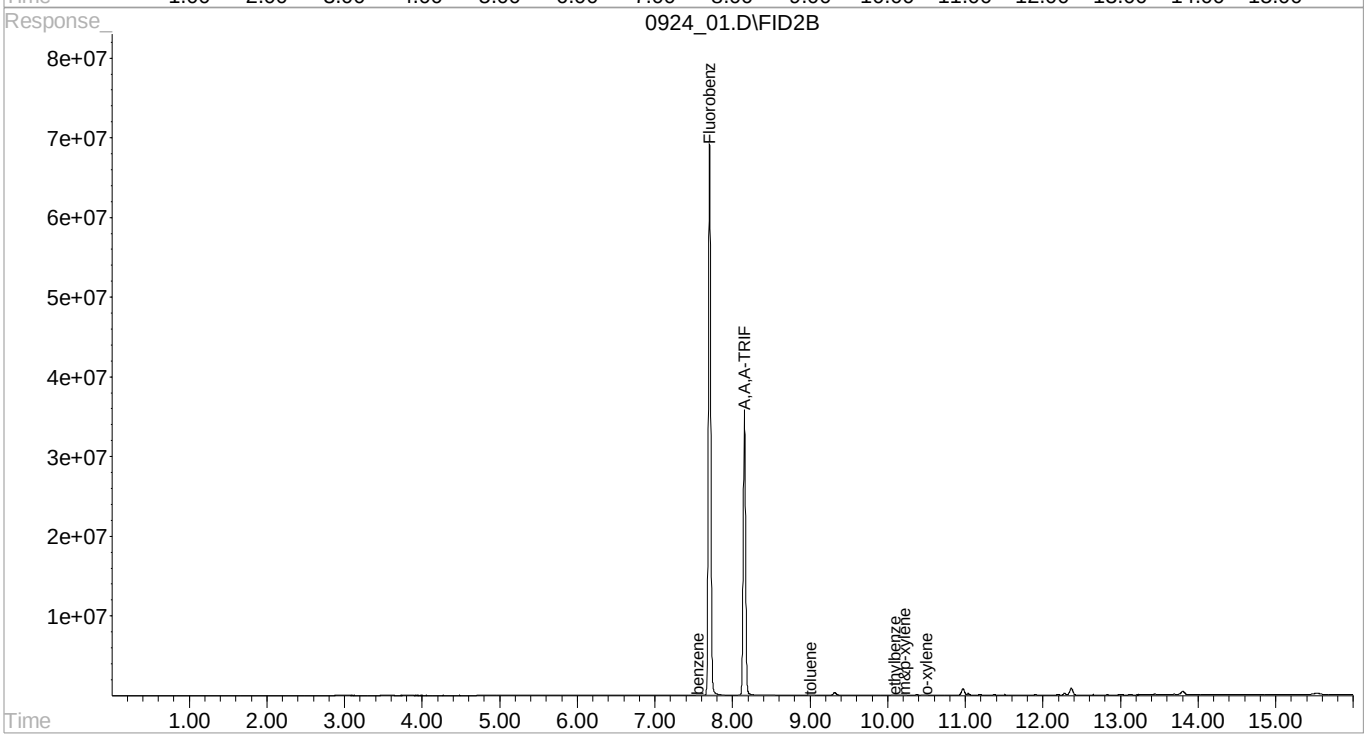
Quantitation Report (Not Reviewed)

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 :

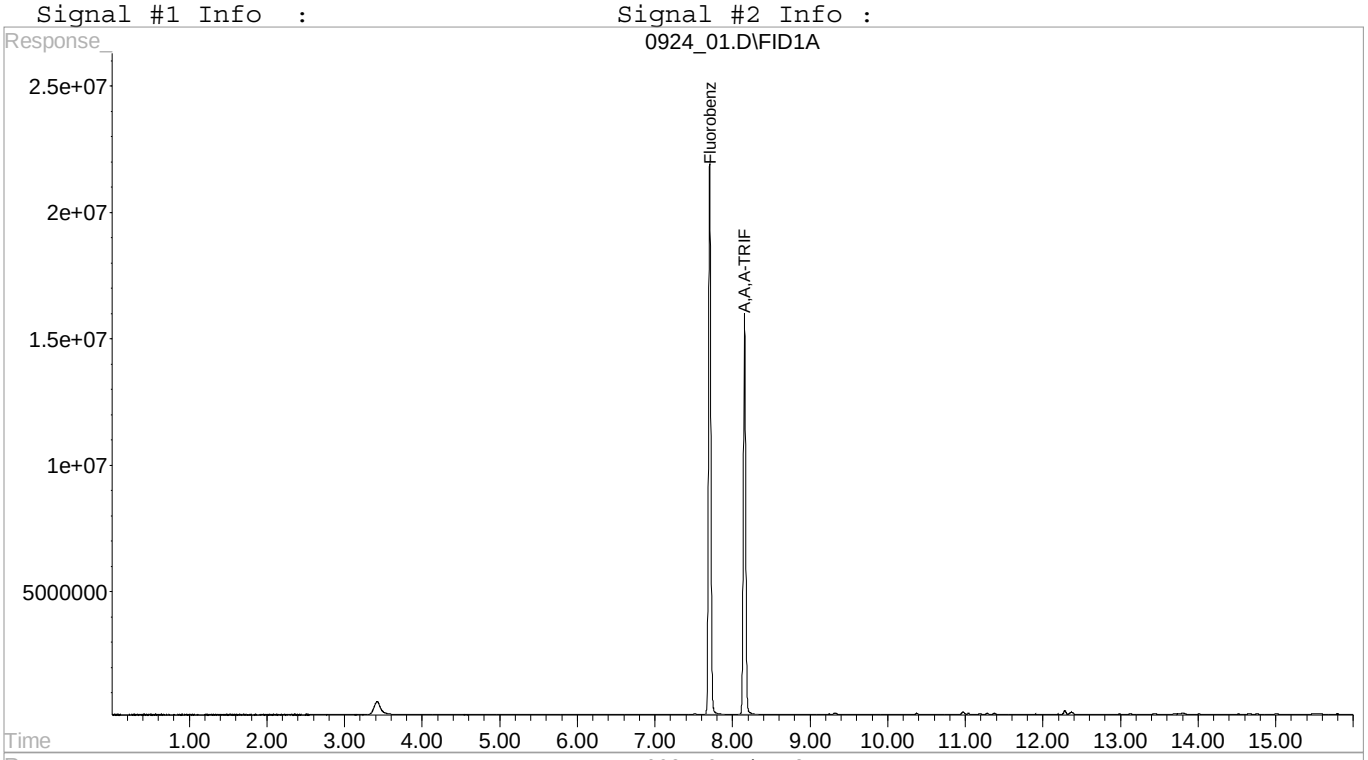
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.70	454837673	200.0000000	ppb
8) I Fluorobenzene #2	7.70	1476310400	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.15	333238434	182.6681137	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

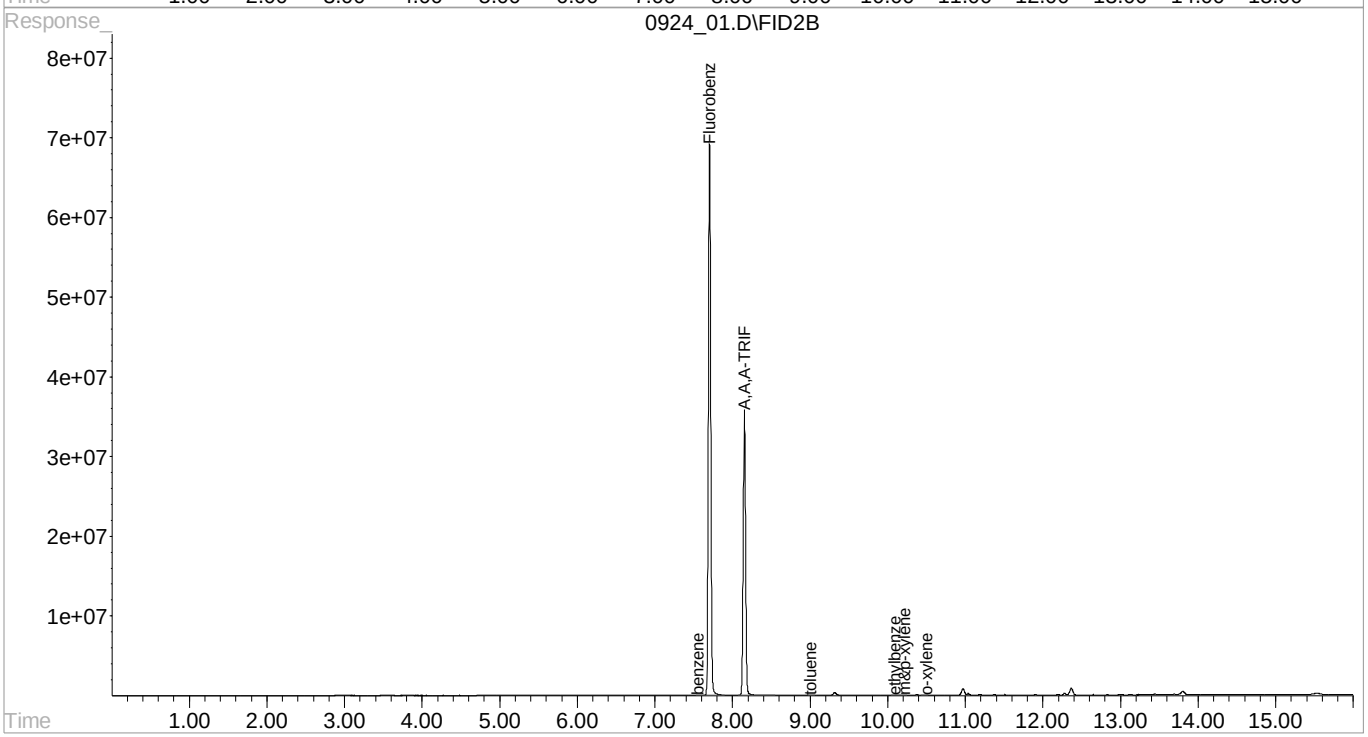
Quantitation Report (QT Reviewed)

```
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
12065 Lebanon Rd., Mt. Juliet, TN 37122

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
12065 Lebanon Rd., Mt. Juliet, TN 37122

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		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

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 :
```

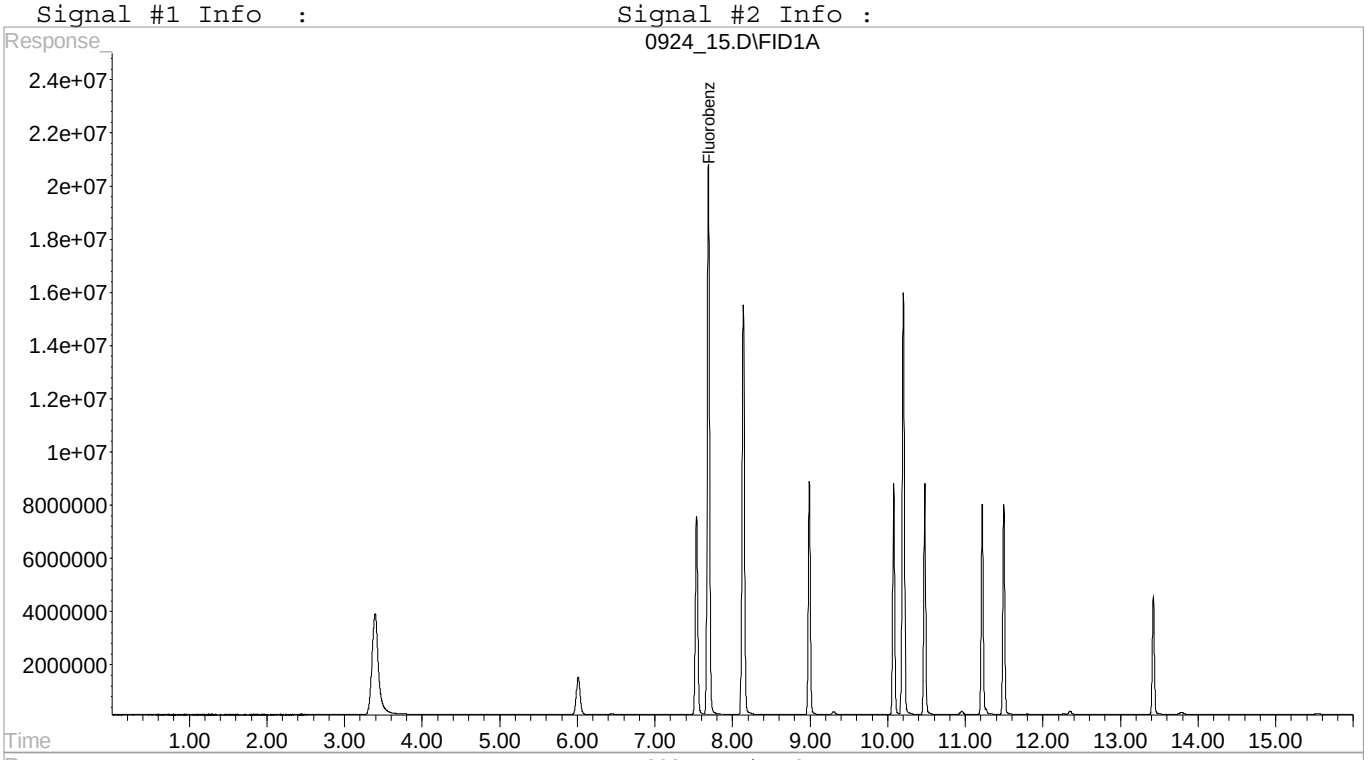
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	429288013	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1411818431	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	322302078	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

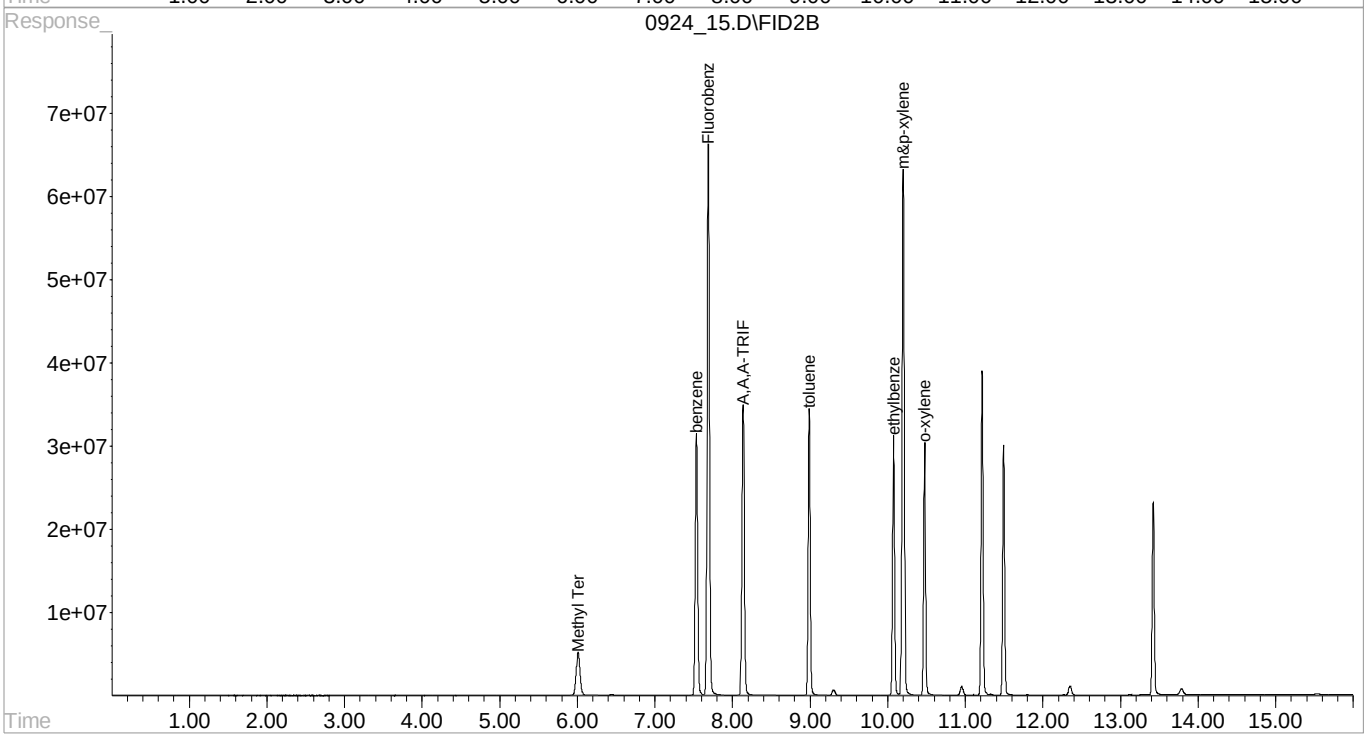
Quantitation Report (Not Reviewed)

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 :
```

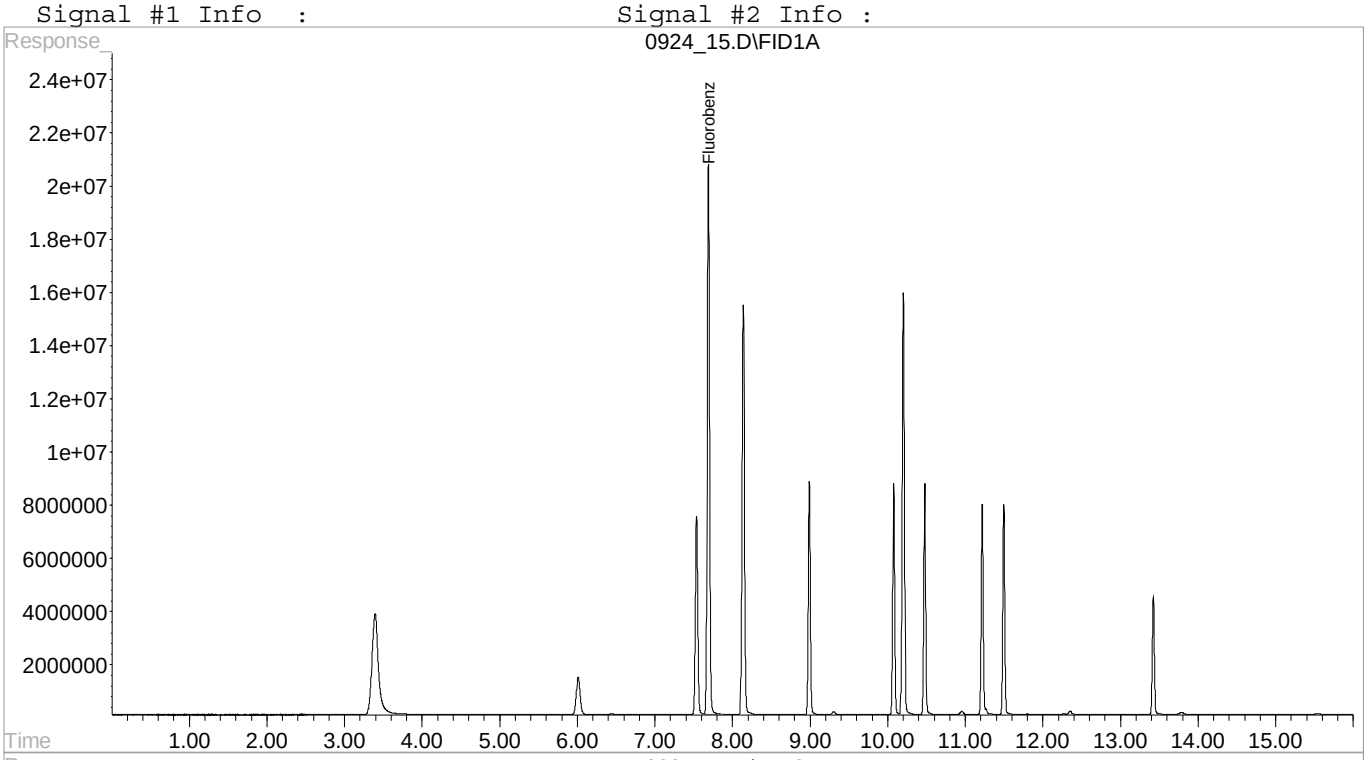
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	429288013	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1411818431	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	322302078	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

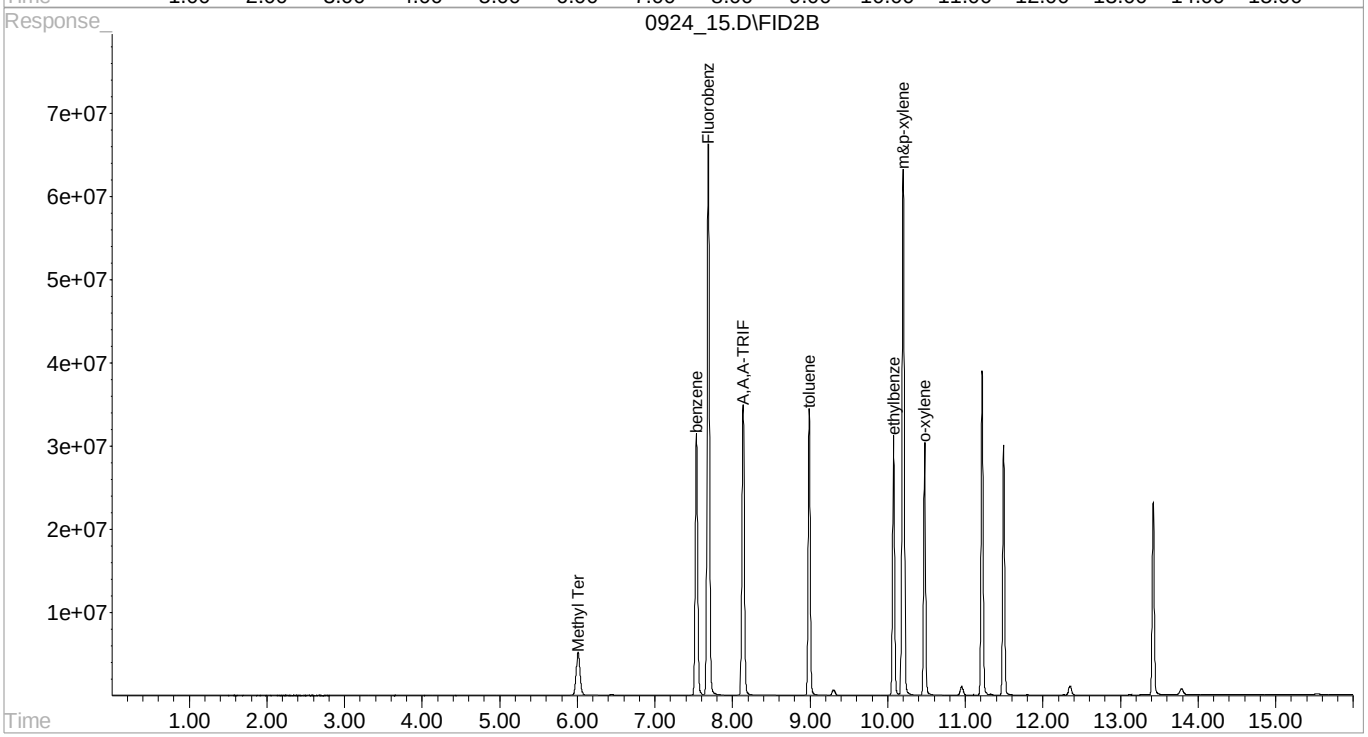
Quantitation Report (QT Reviewed)

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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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		

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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		

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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 :

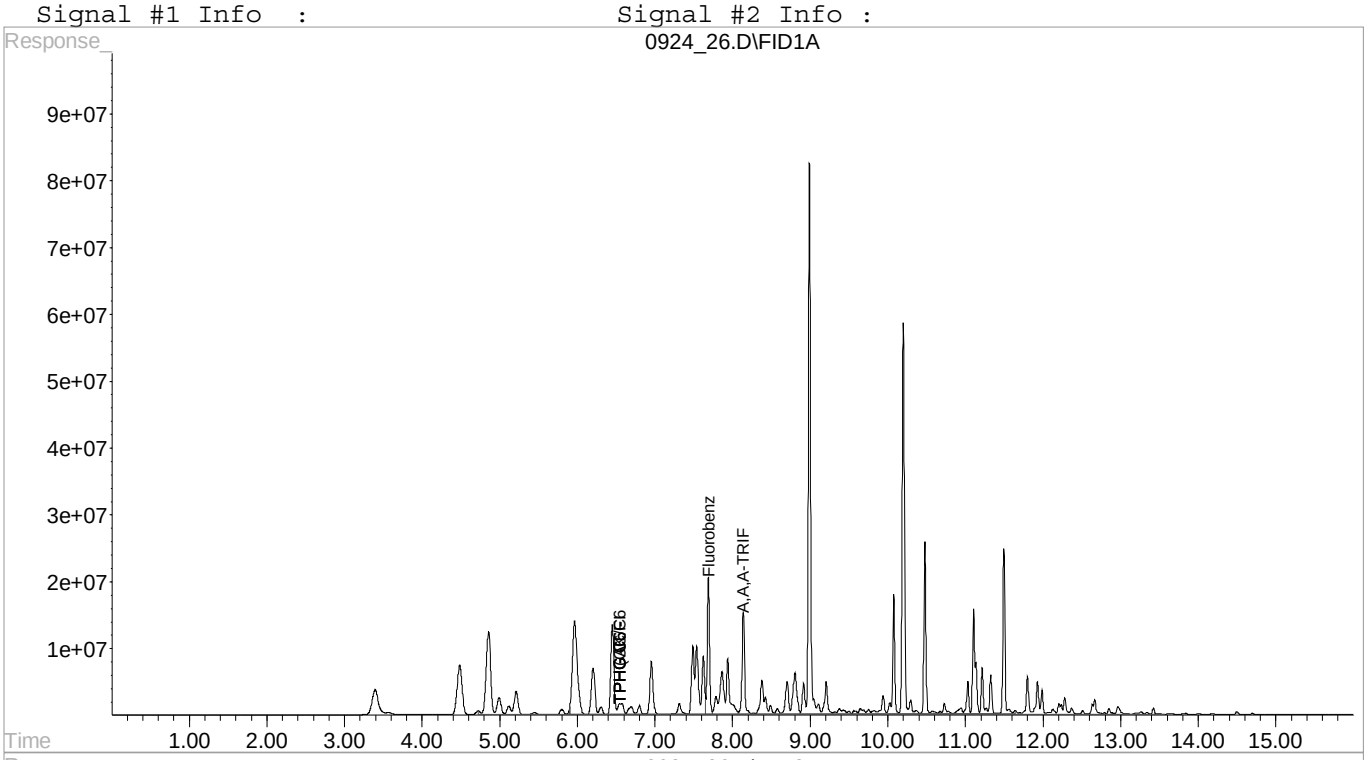
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	429640312	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1394897011	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	349780890	202.9808859 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

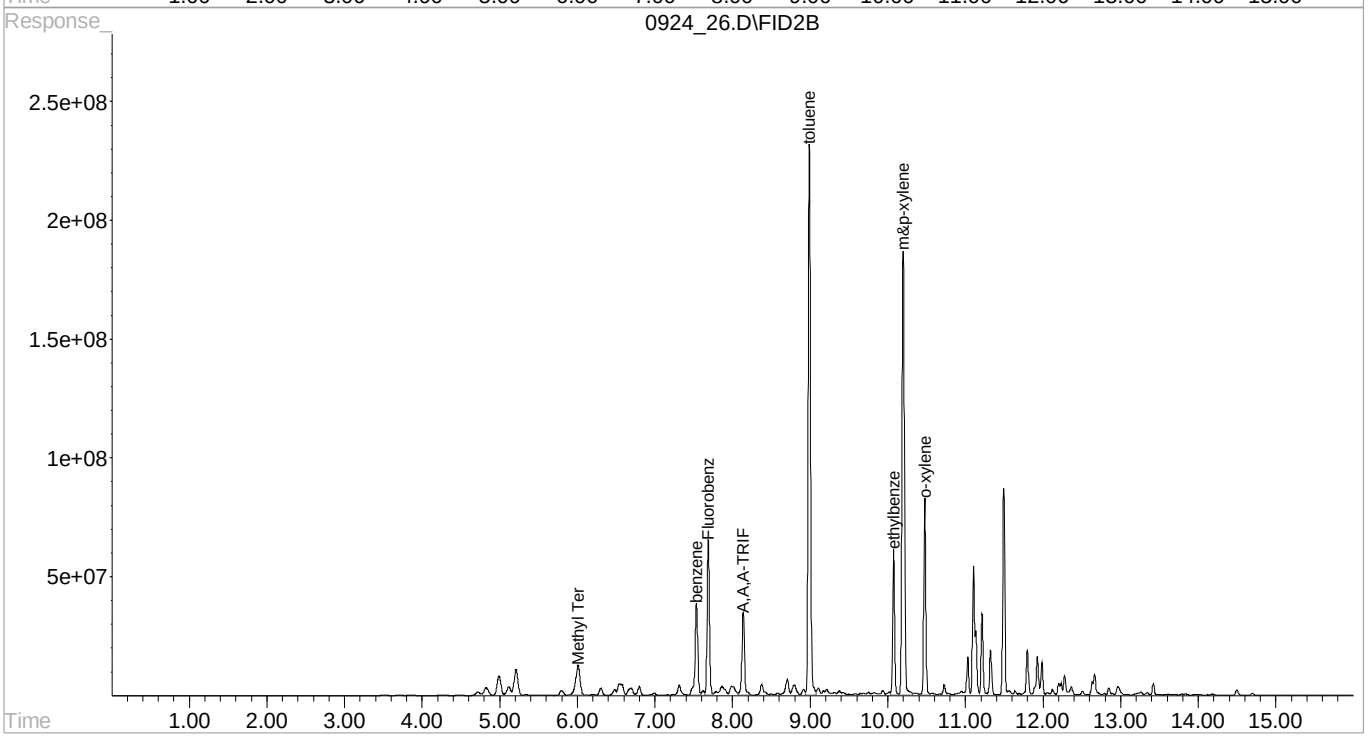
Quantitation Report (Not Reviewed)

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 :

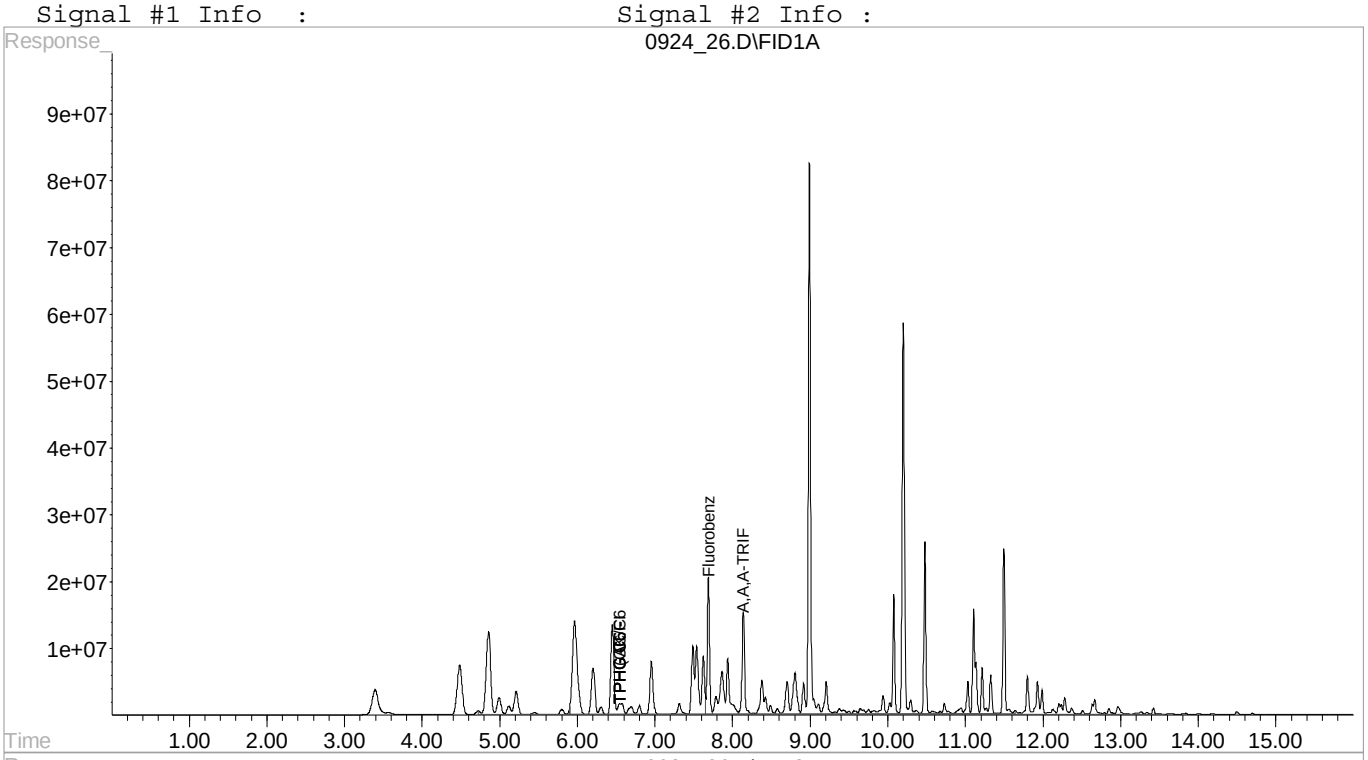
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	429640312	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1394897011	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	349780890	202.9808859 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

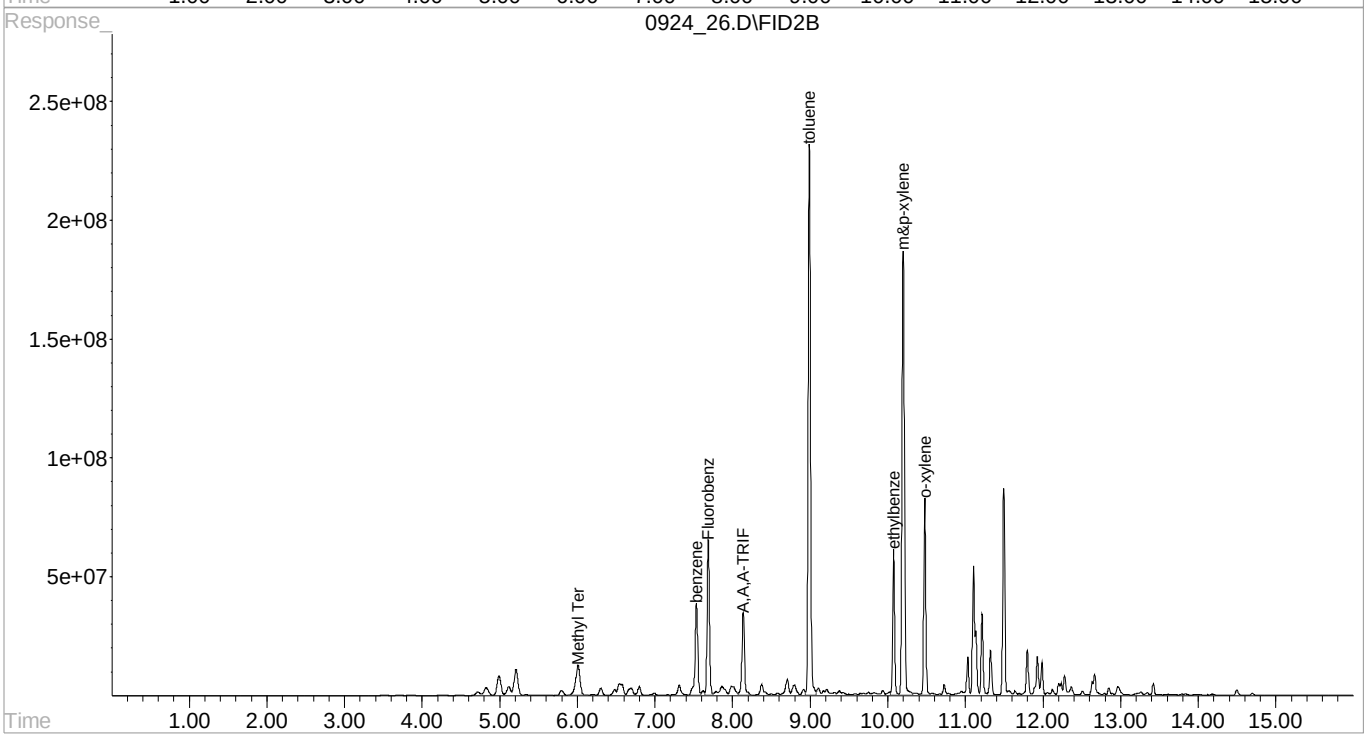
Quantitation Report (QT Reviewed)

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 :
```

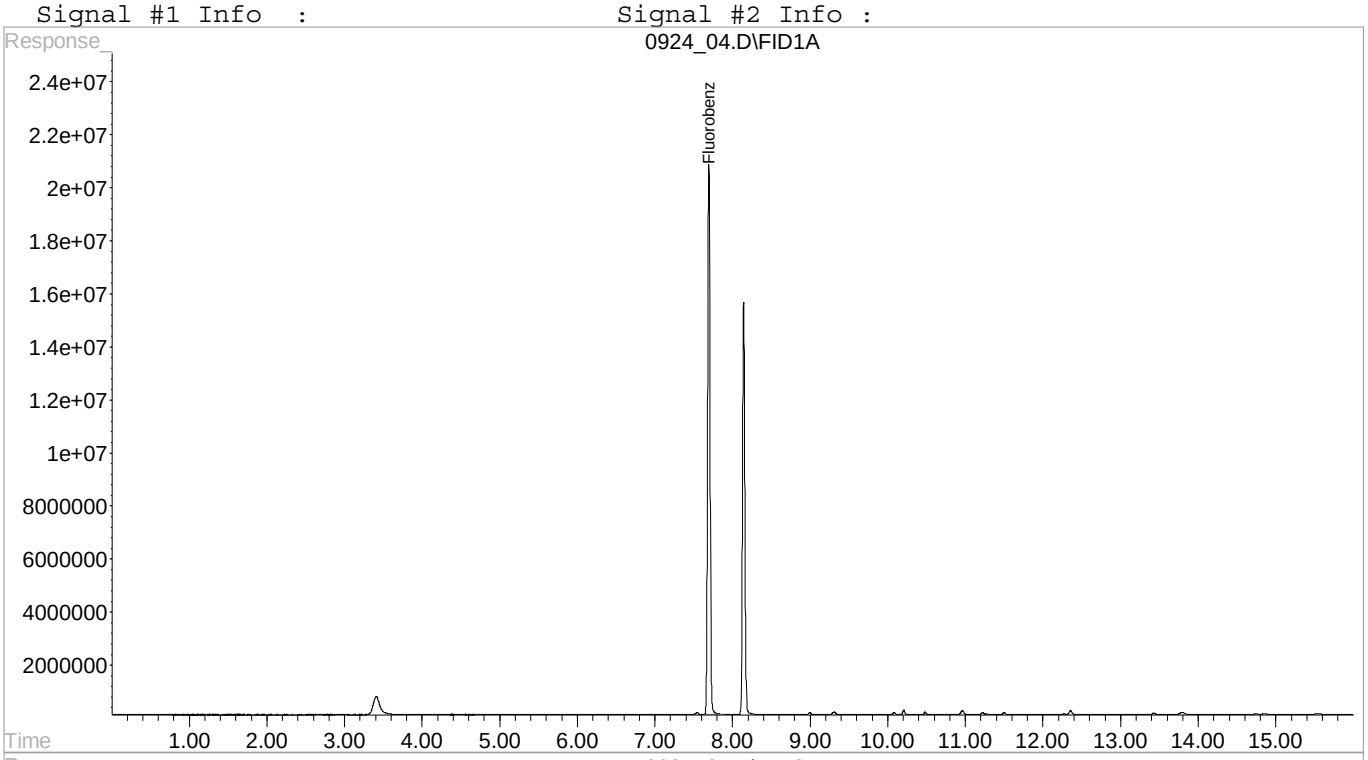
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	436223922	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1406839779	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	326773429	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

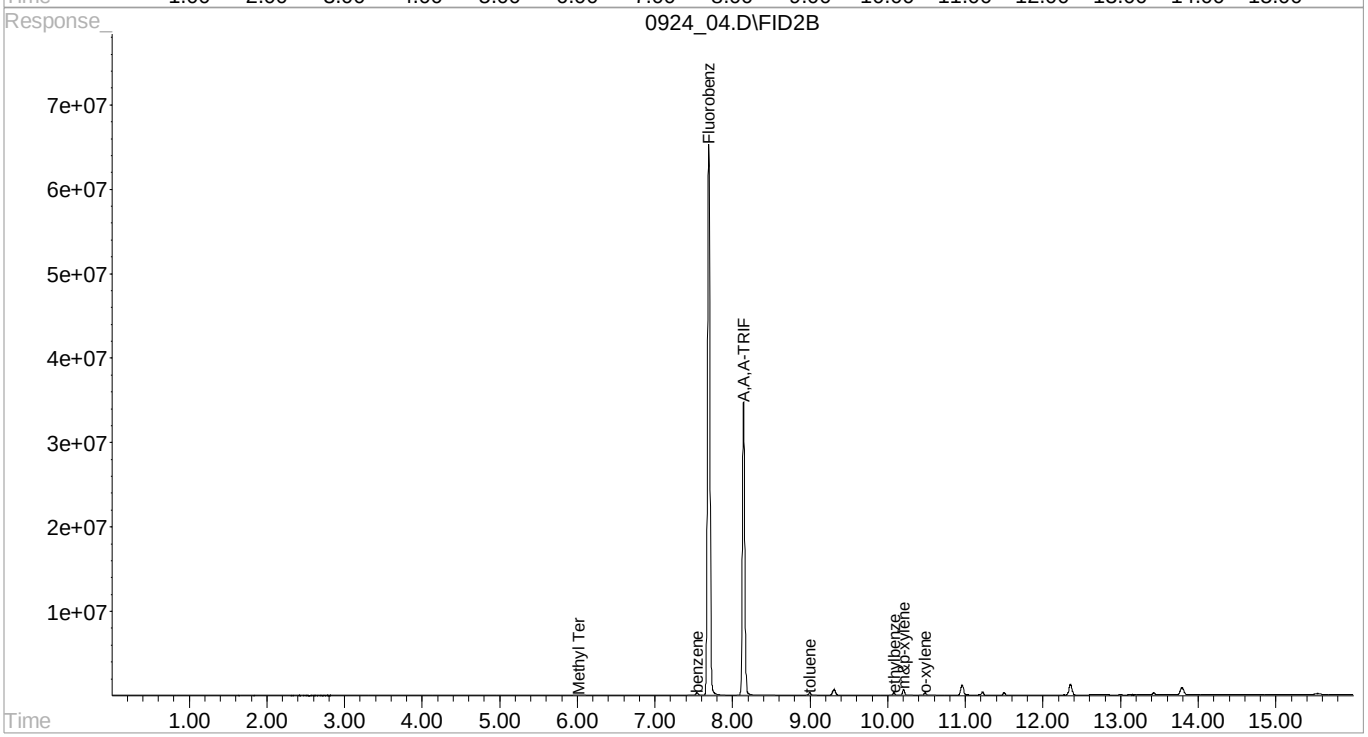
Quantitation Report (Not Reviewed)

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 :

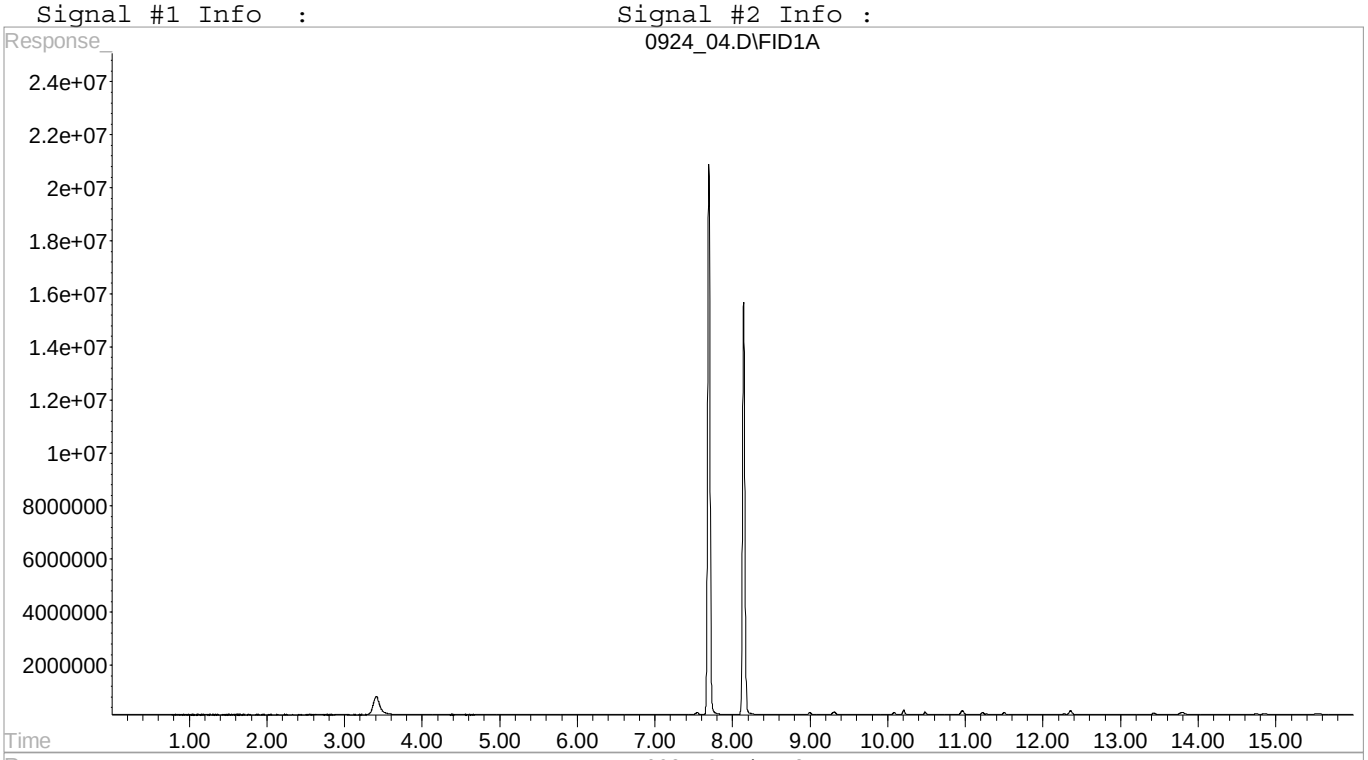
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1406839779	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery =	0.00%#	
9) S A,A,A-TRIFLUOROTOLUENE(PID	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

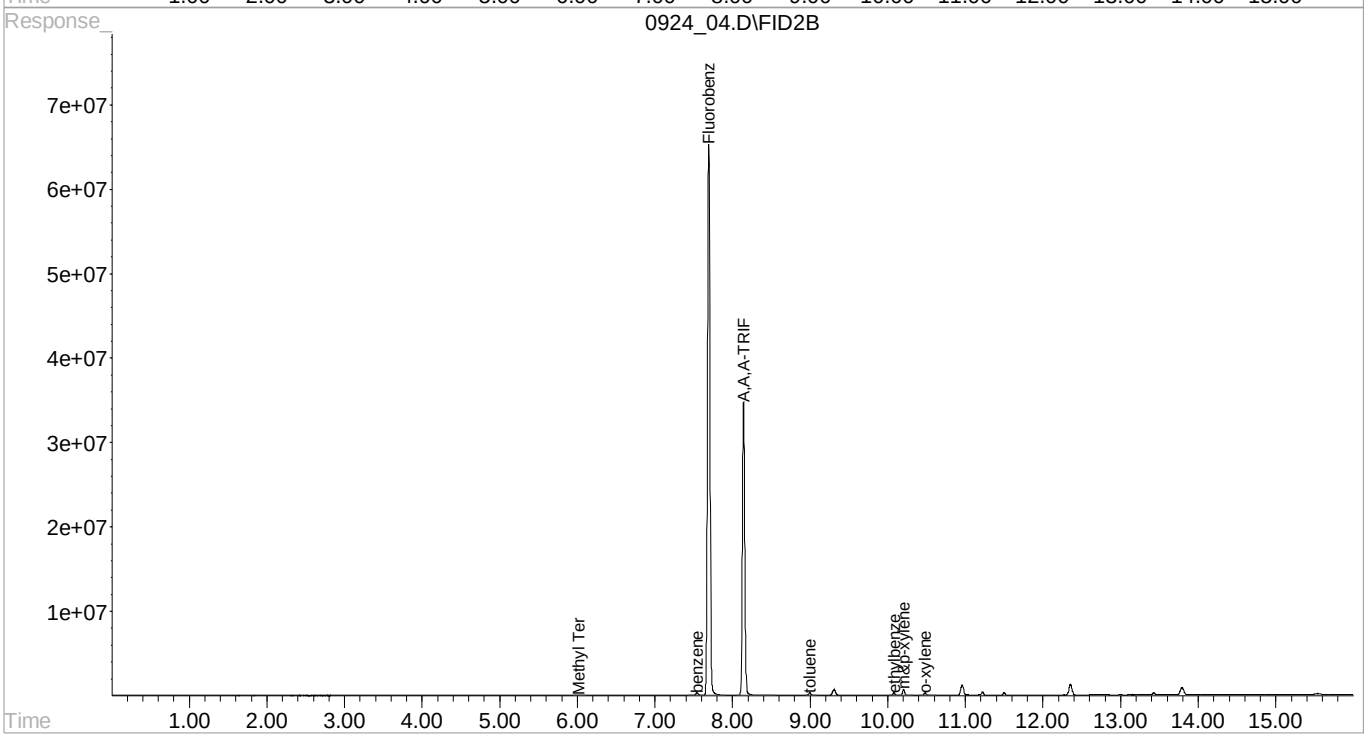
Quantitation Report (QT Reviewed)

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 :

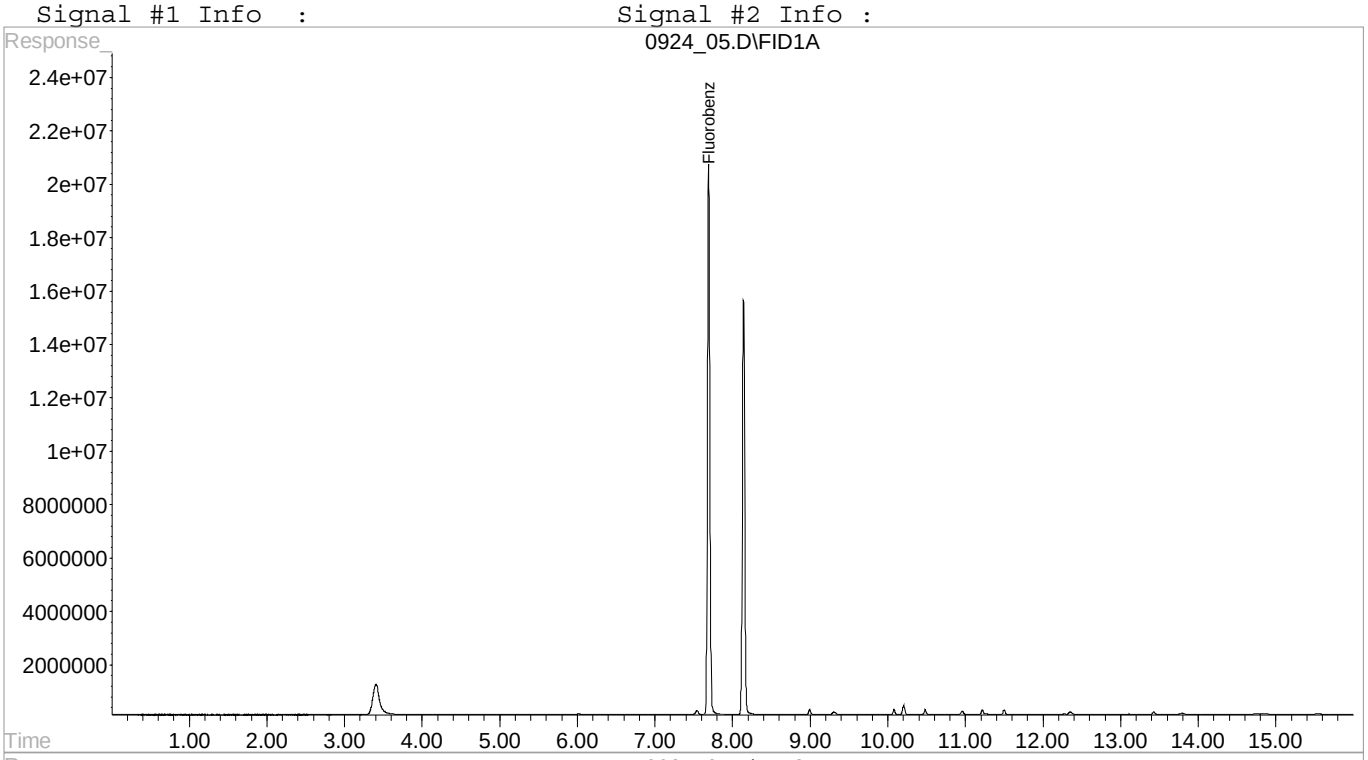
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	430073100	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1388717698	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	324993558	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

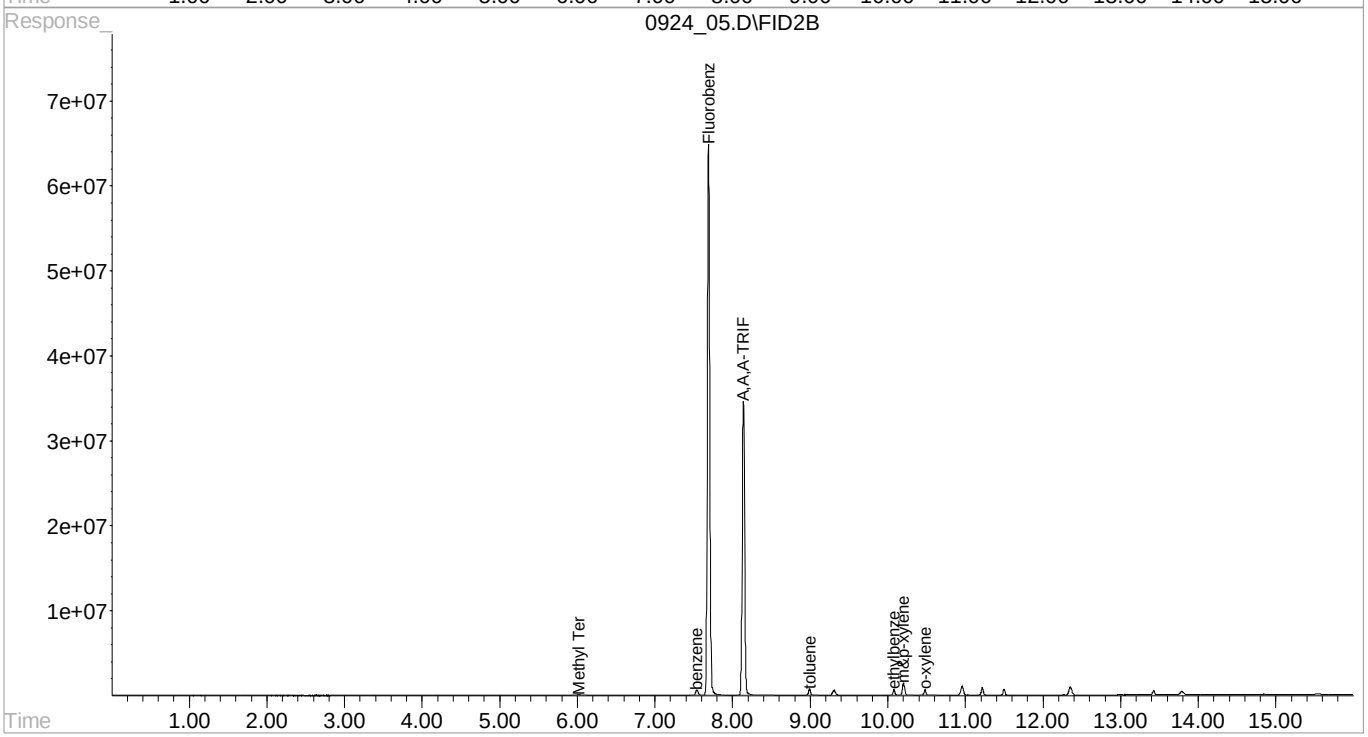
Quantitation Report (Not Reviewed)

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 :
```

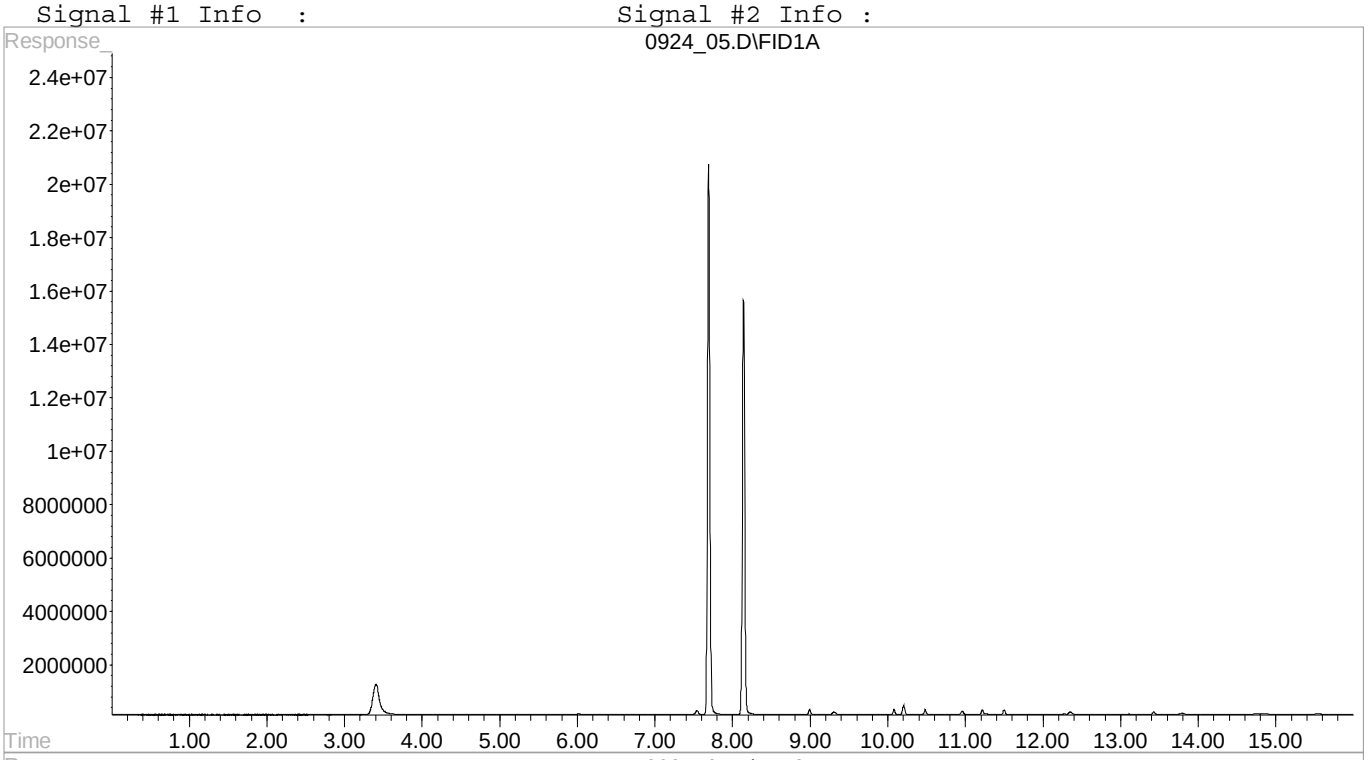
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	7.69	1388717698	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
	Spiked Amount 200.000 Range 70 - 130		Recovery =	0.00%#	
9)	S A,A,A-TRIFLUOROTOLUENE(PID	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

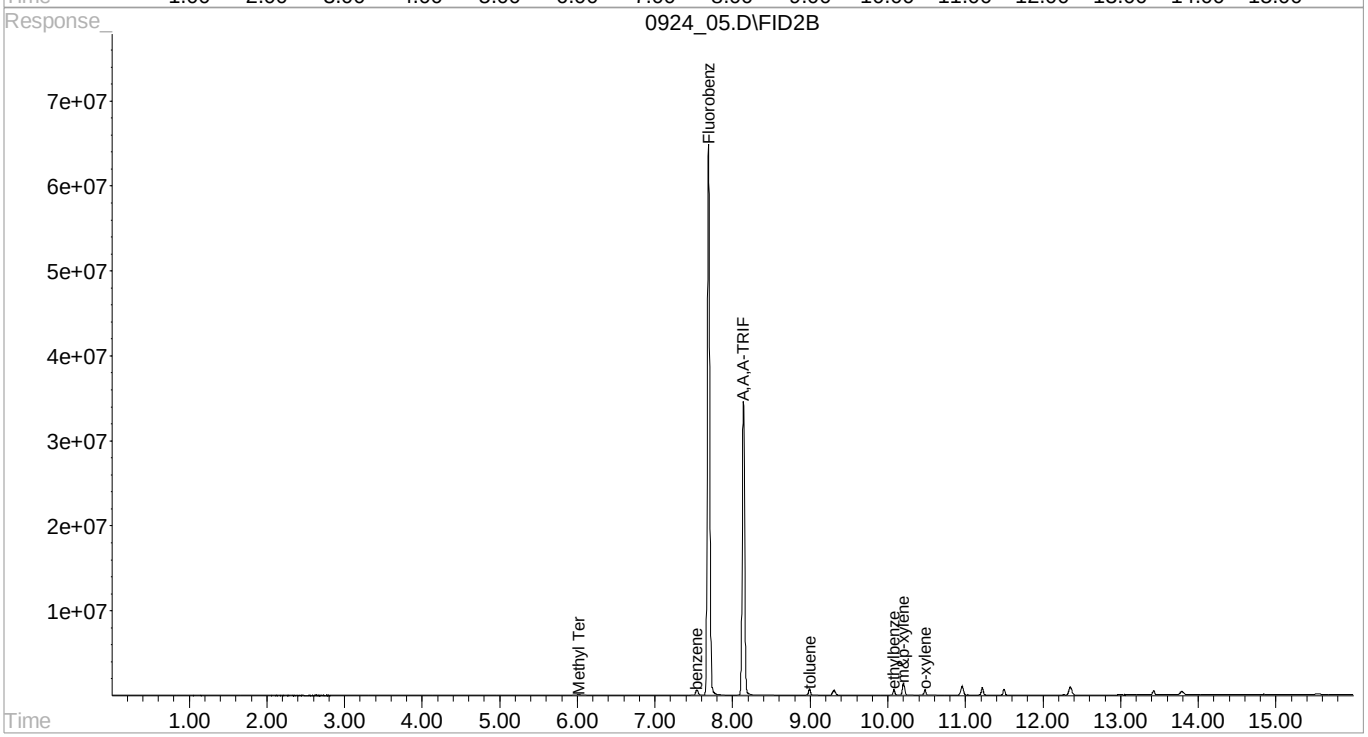
Quantitation Report (QT Reviewed)

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 :

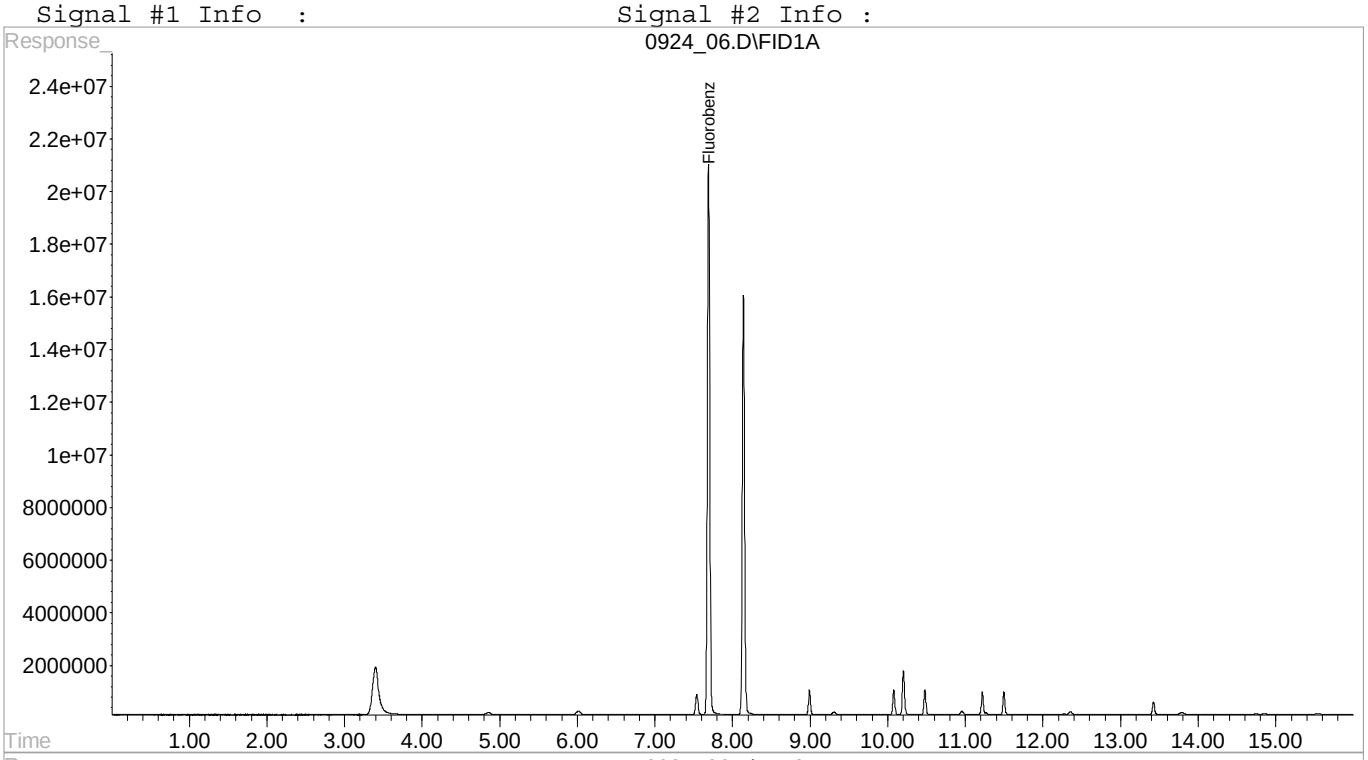
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	434005589	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1404218216	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	332592543	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

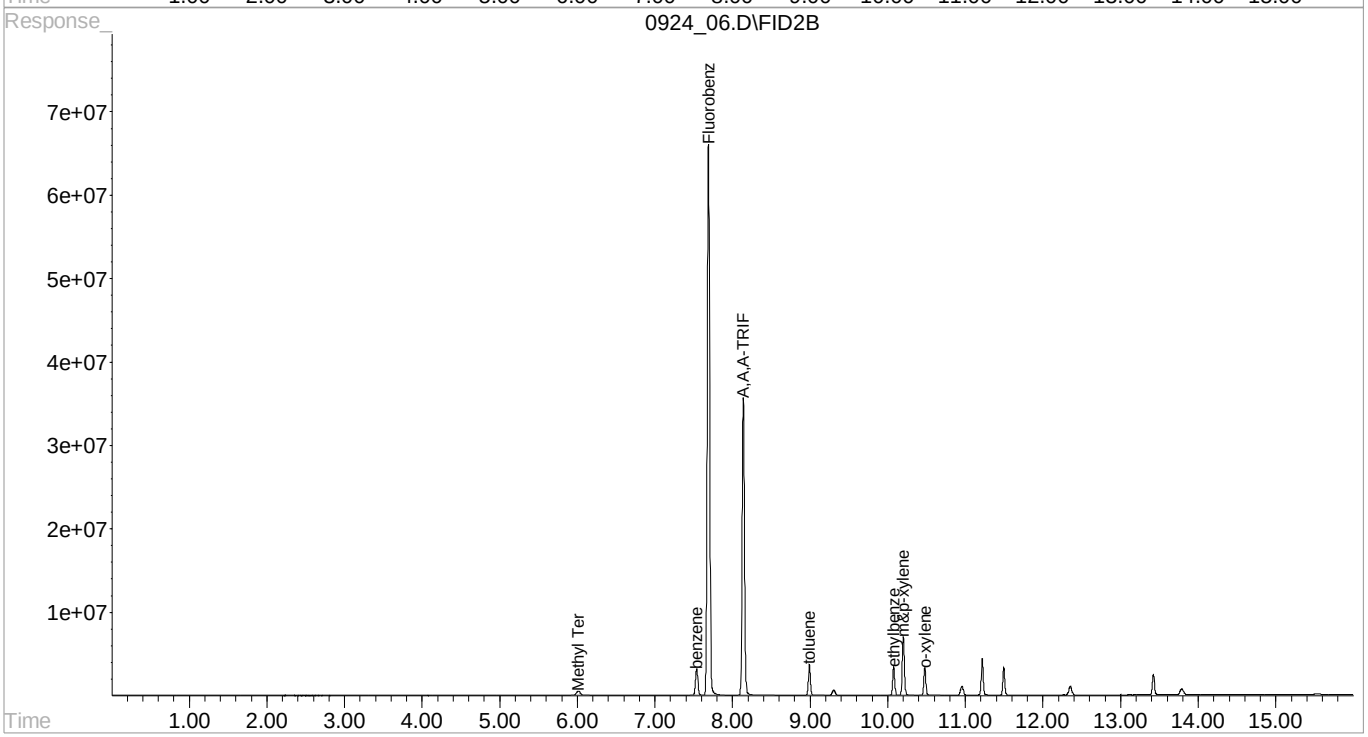
Quantitation Report (Not Reviewed)

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 :
```

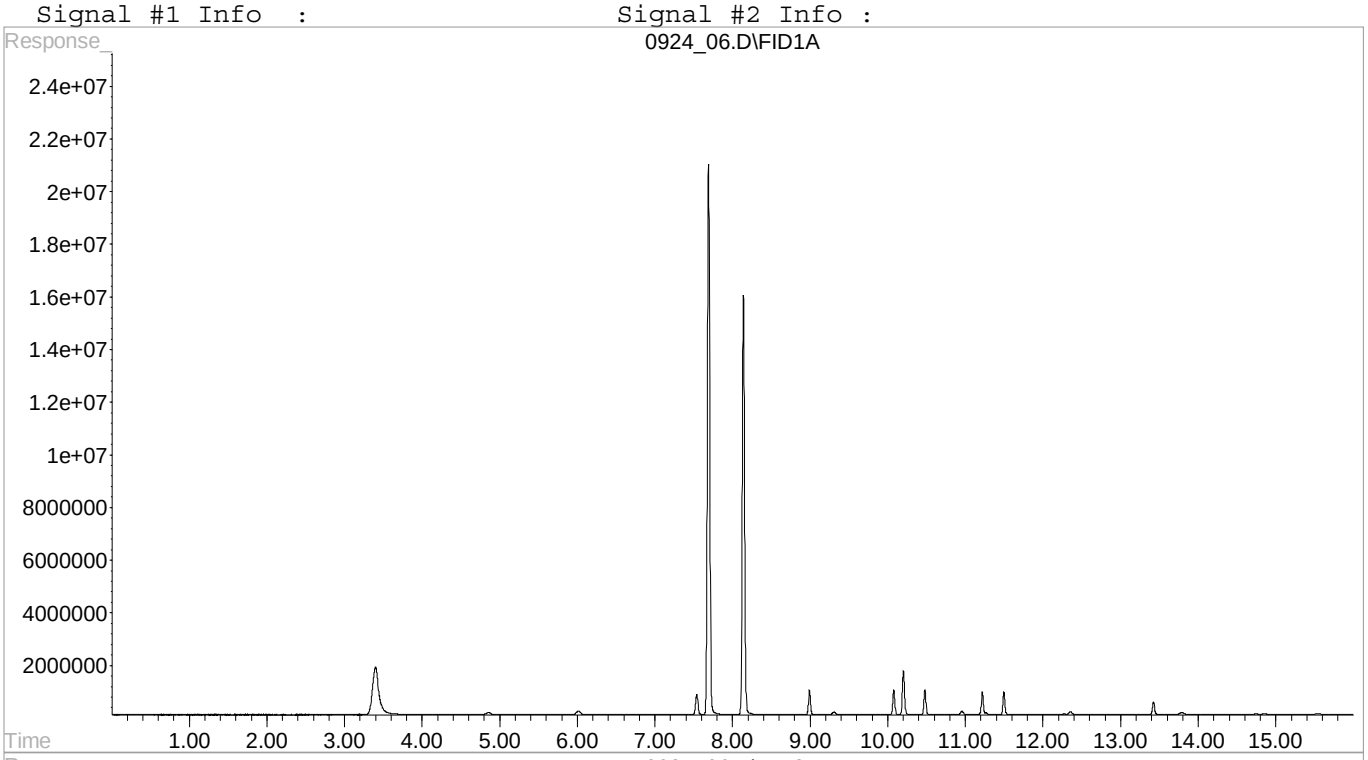
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1404218216	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	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

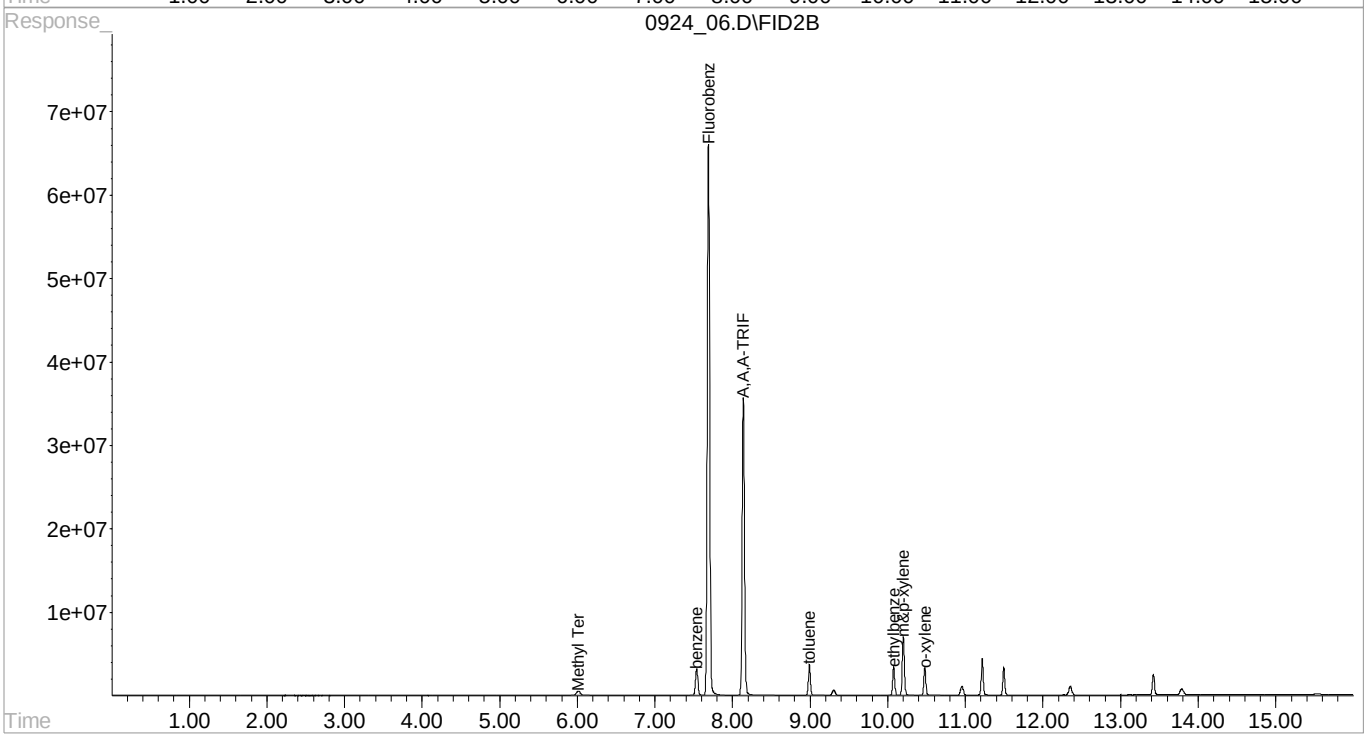
Quantitation Report (QT Reviewed)

```
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 :

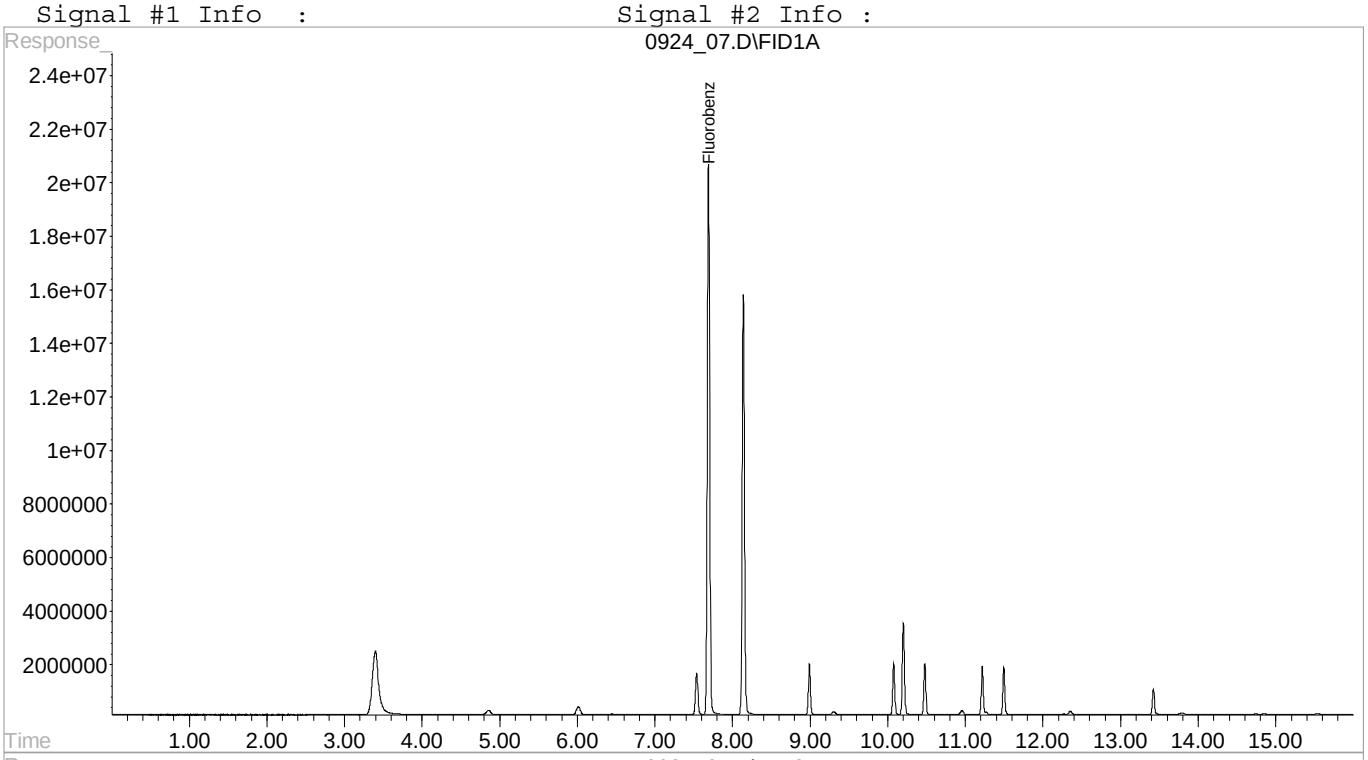
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	426853387	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1385067994	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	328668612	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

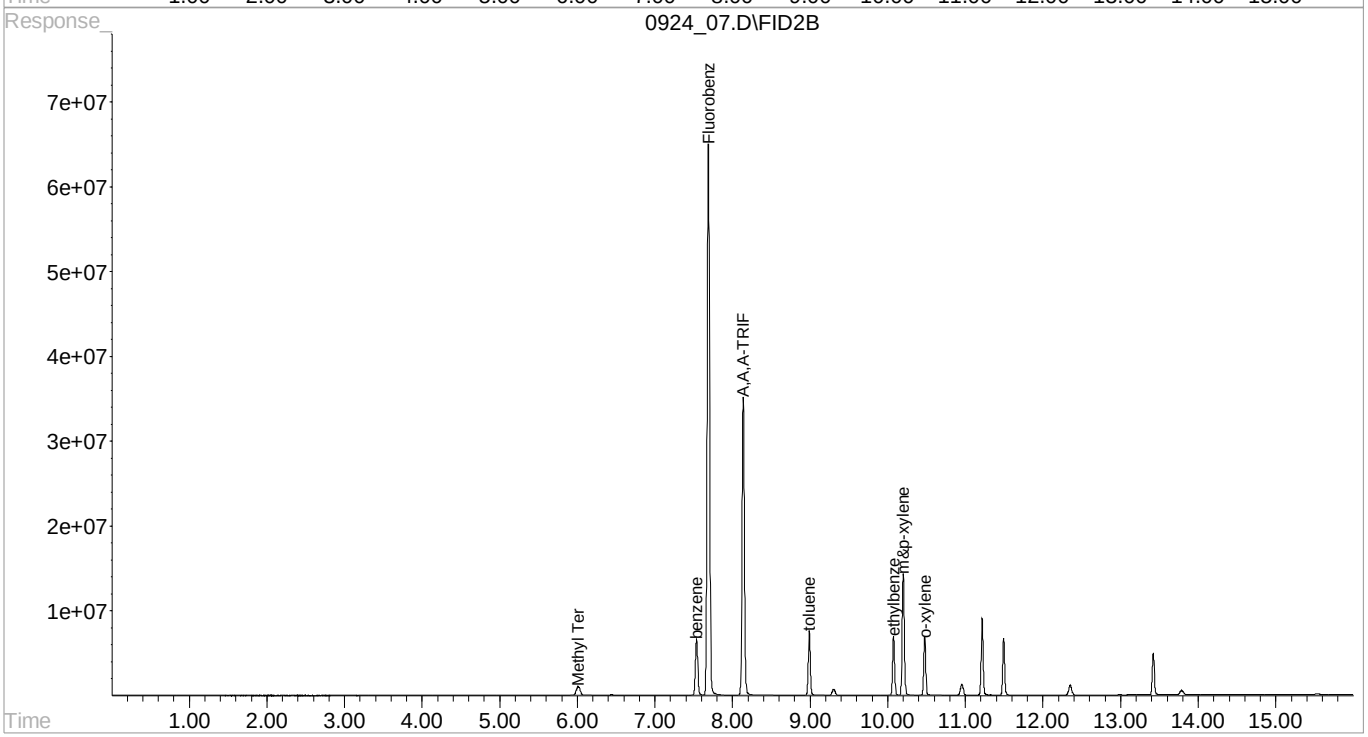
Quantitation Report (Not Reviewed)

```
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 :
```

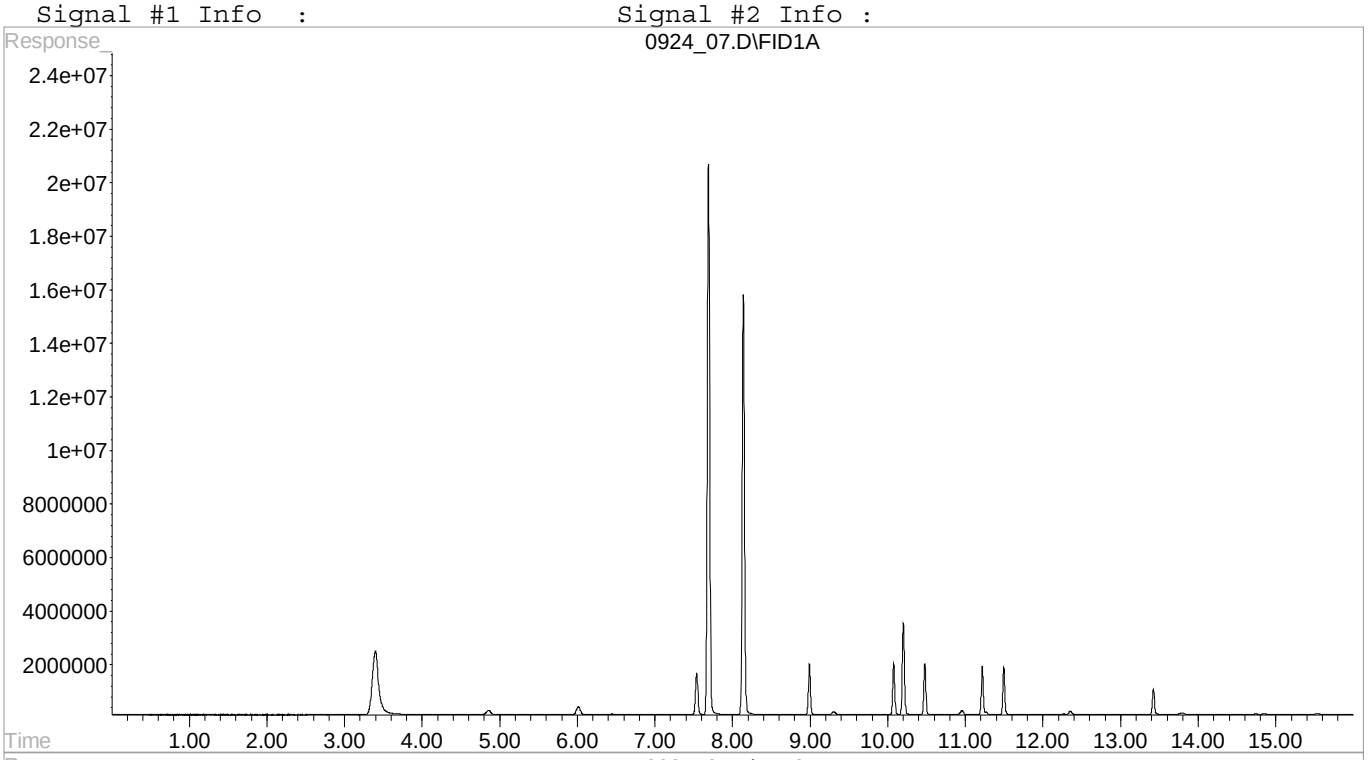
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	7.69	1385067994	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
	Spiked Amount 200.000 Range 70 - 130		Recovery =	0.00%#	
9)	S A,A,A-TRIFLUOROTOLUENE(PID	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

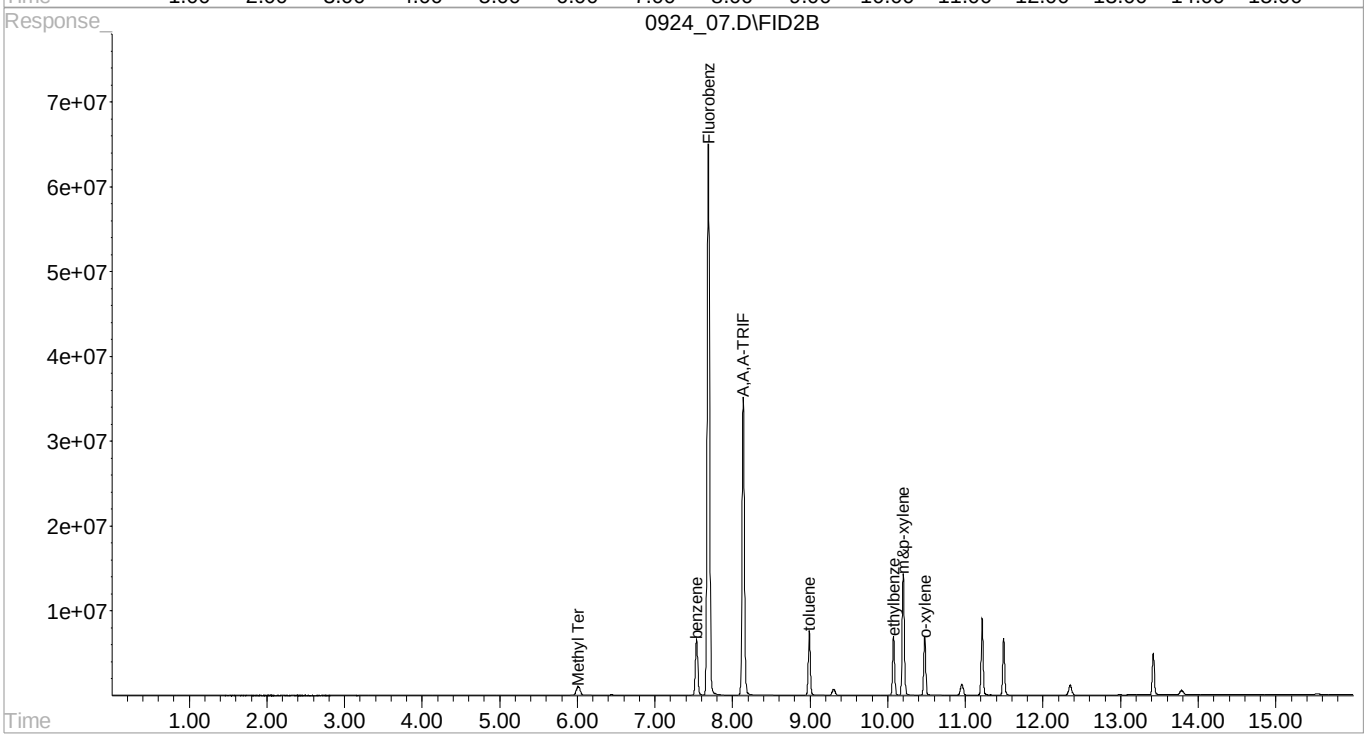
Quantitation Report (QT Reviewed)

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 :

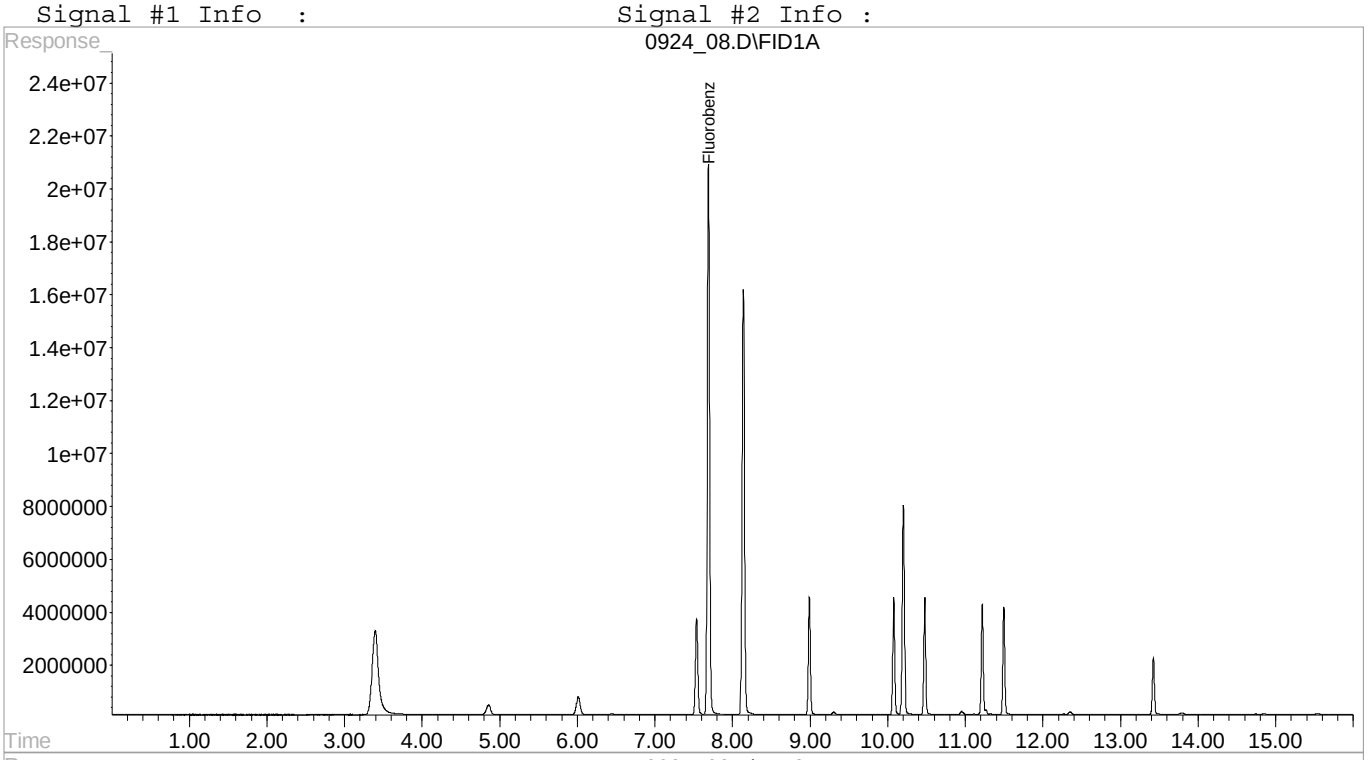
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	432096799	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1405633556	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	336497519	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

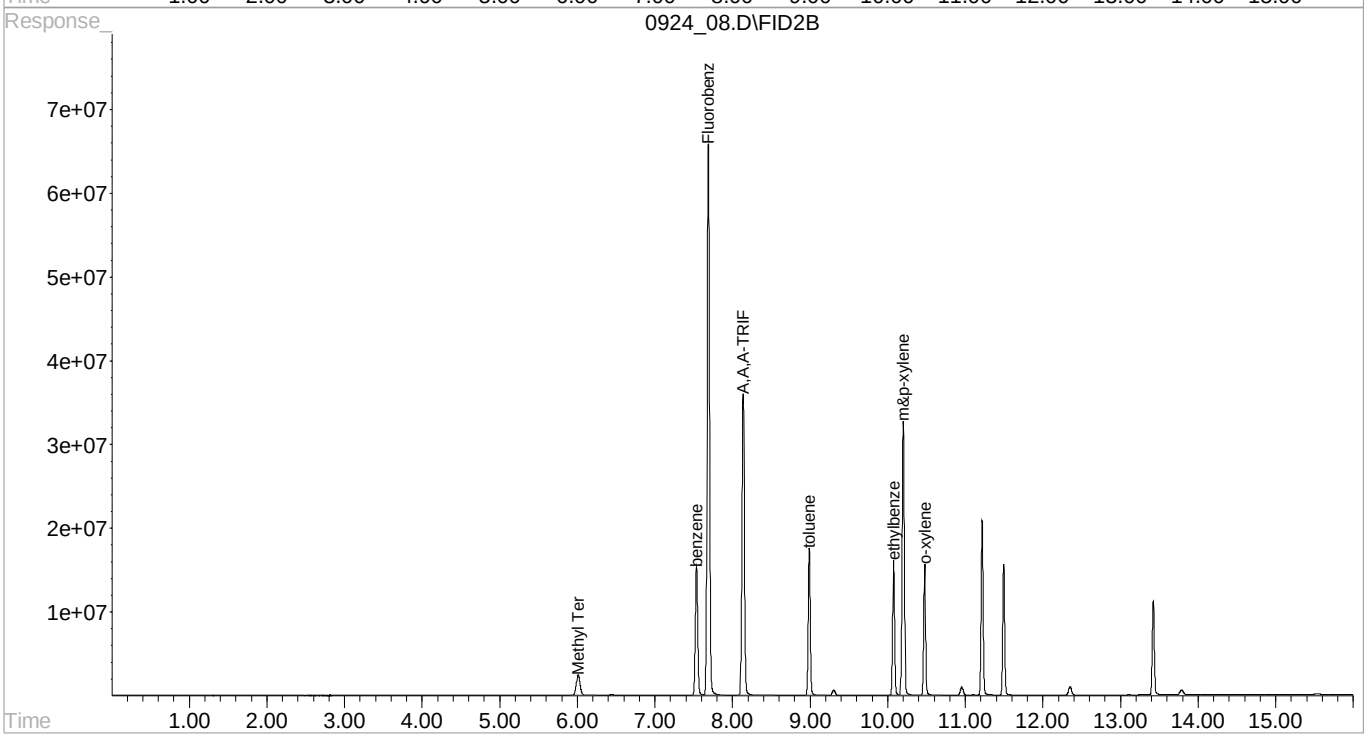
Quantitation Report (Not Reviewed)

```
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 :
```

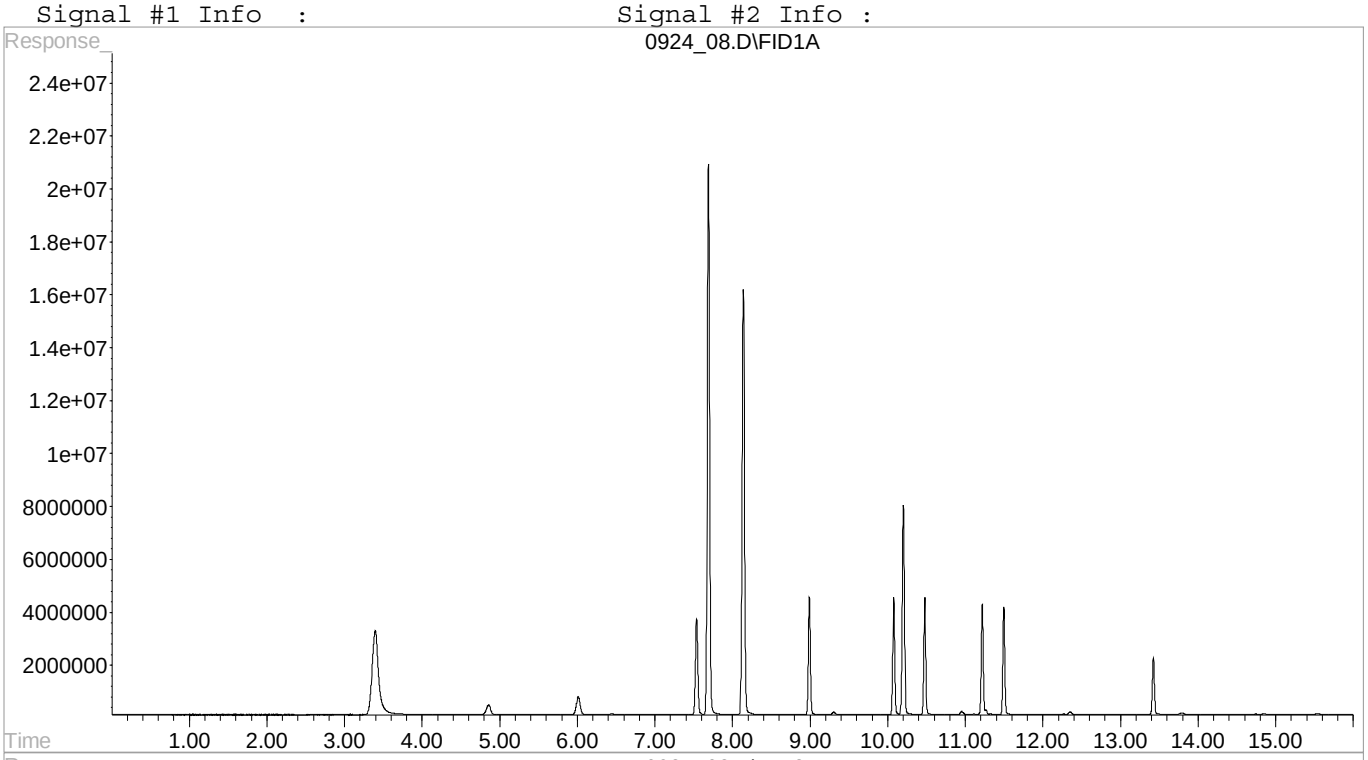
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1405633556	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	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

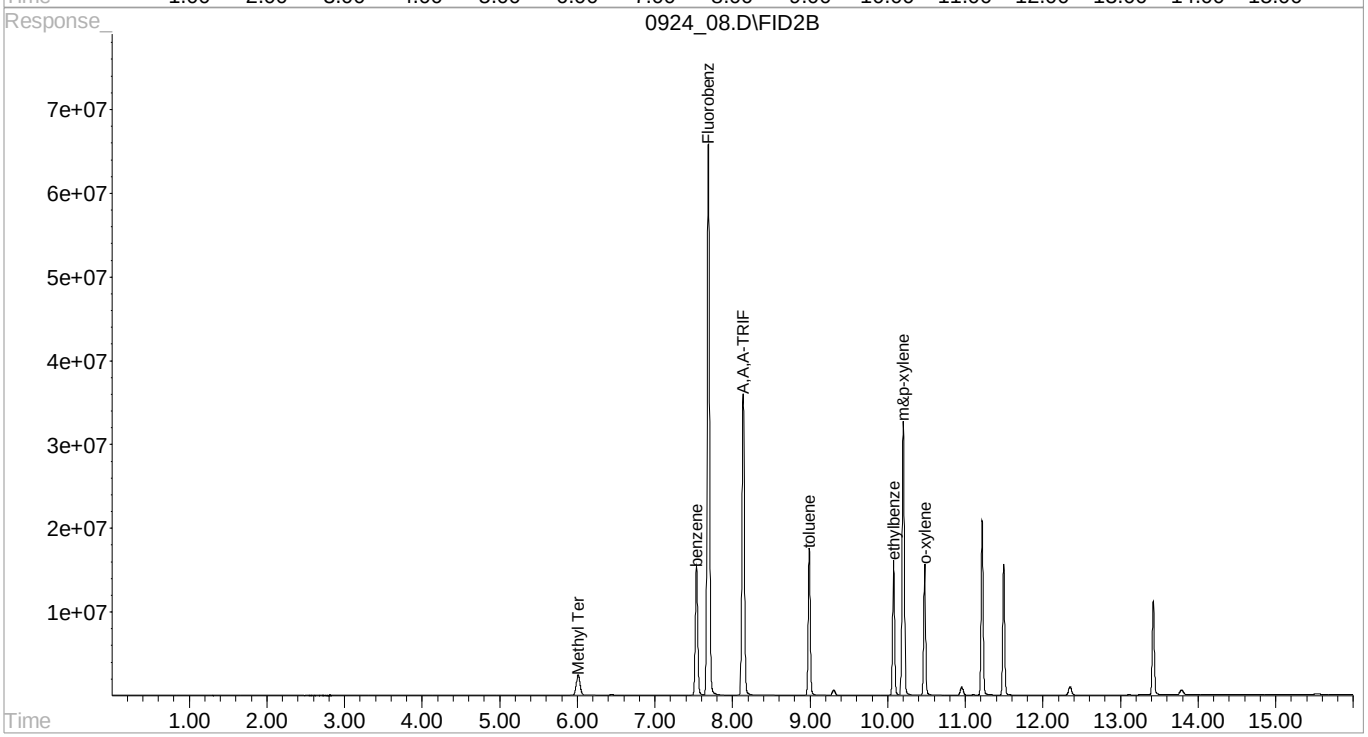
Quantitation Report (QT Reviewed)

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 :

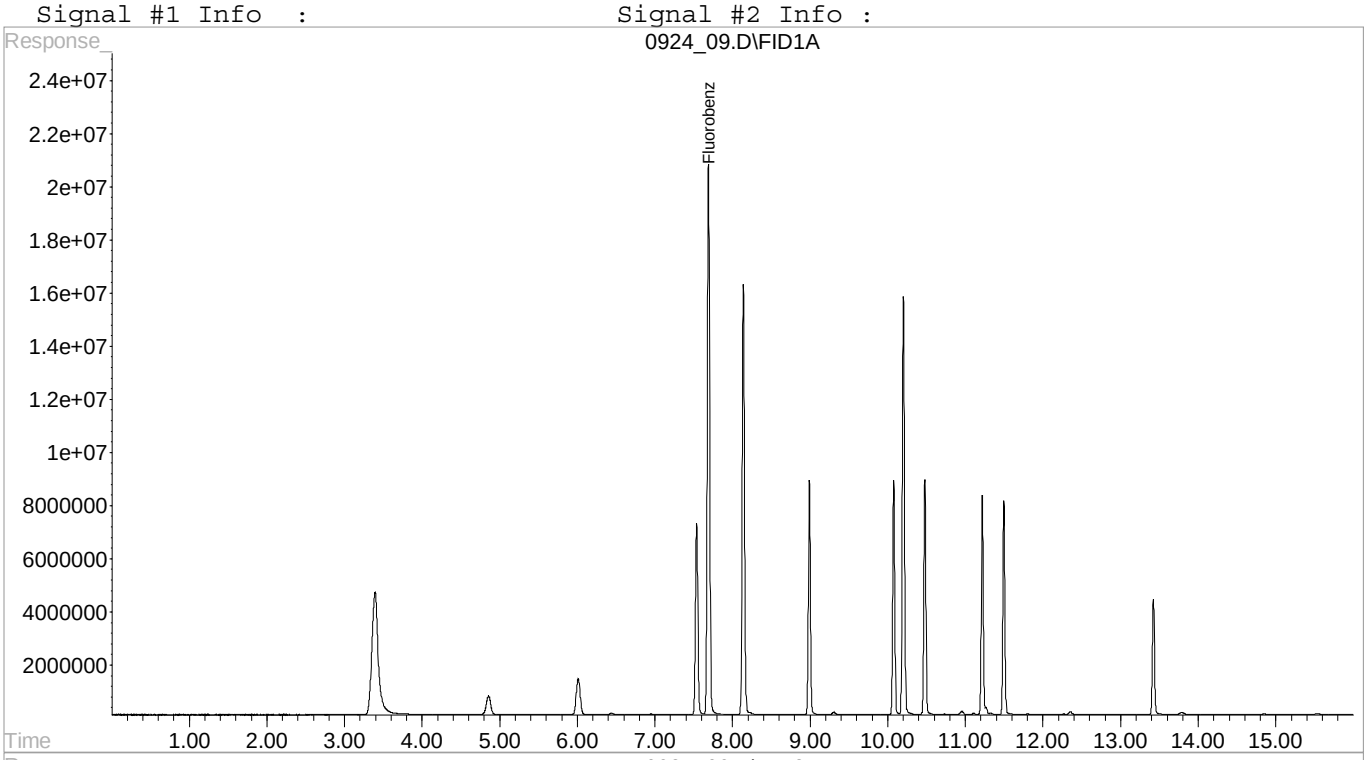
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	430833747	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1407787692	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	338837502	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

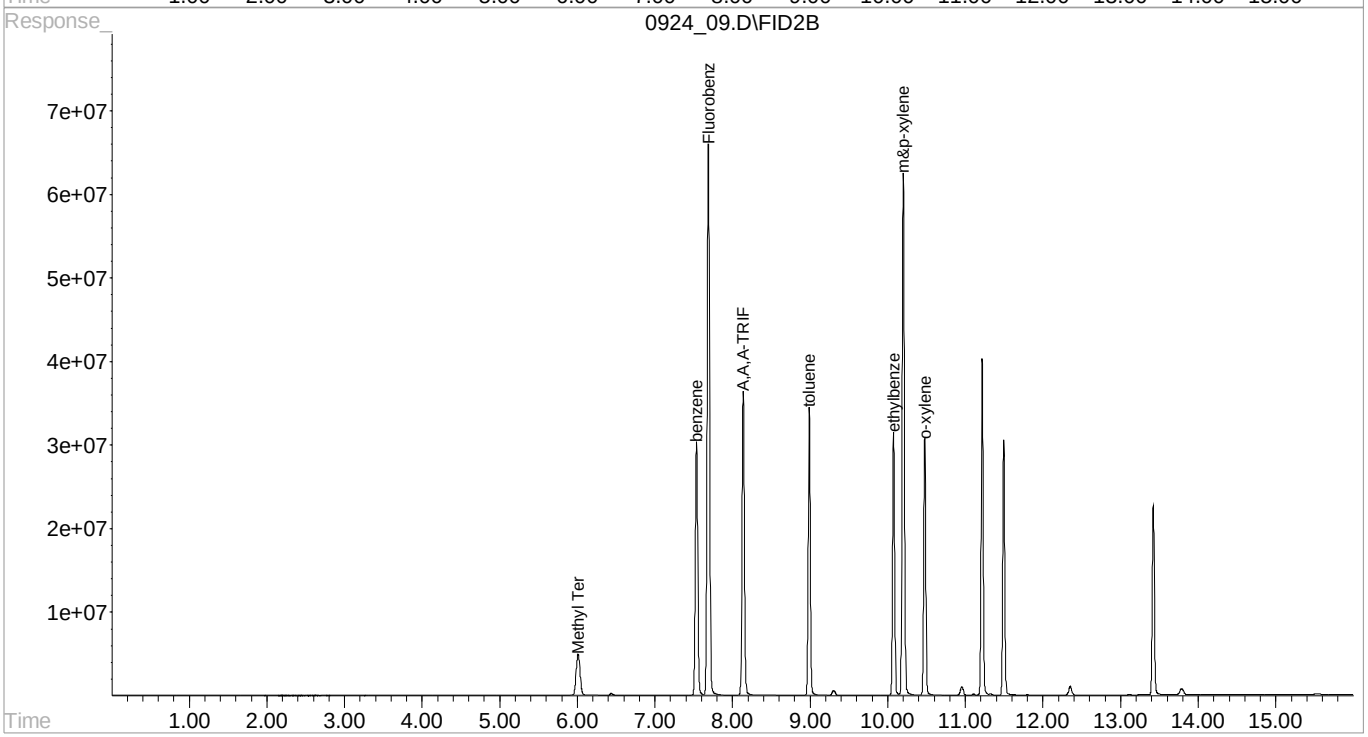
Quantitation Report (Not Reviewed)

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 :
```

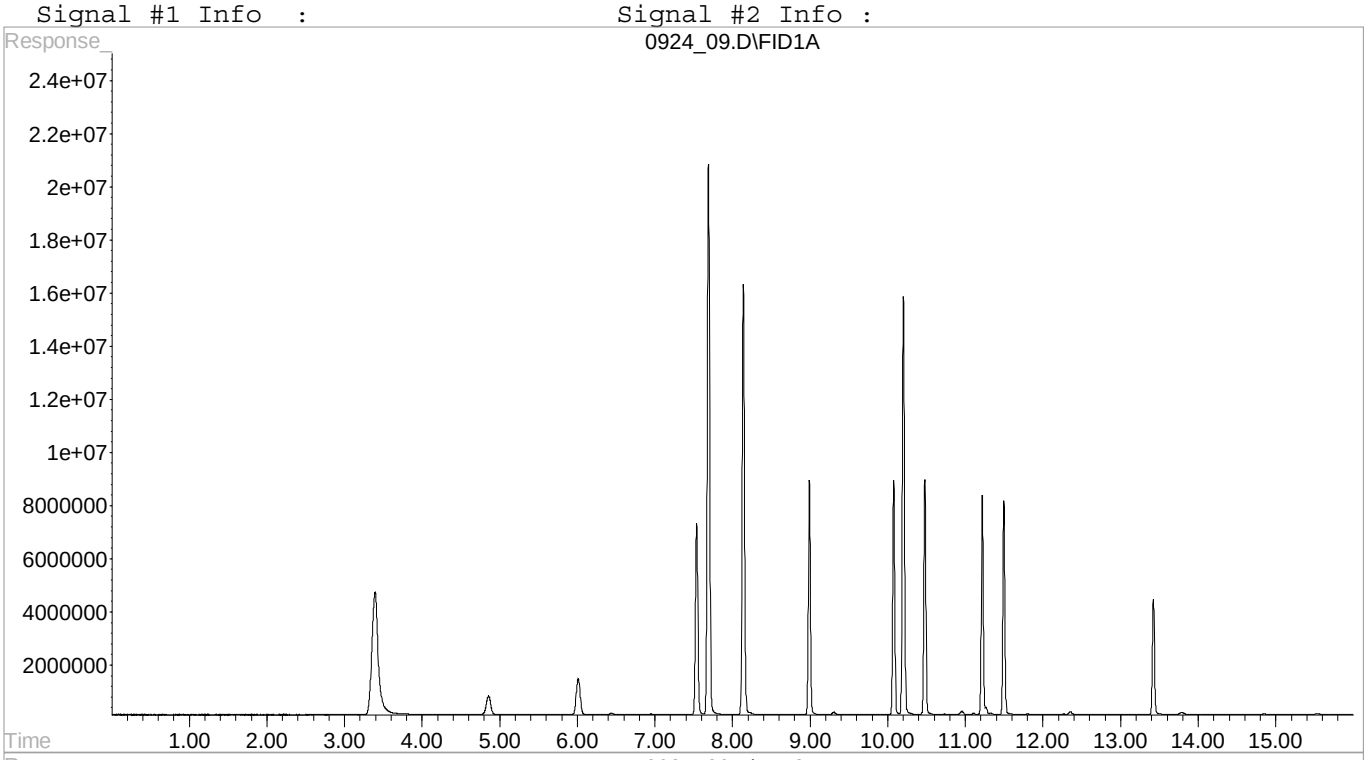
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1407787692	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	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

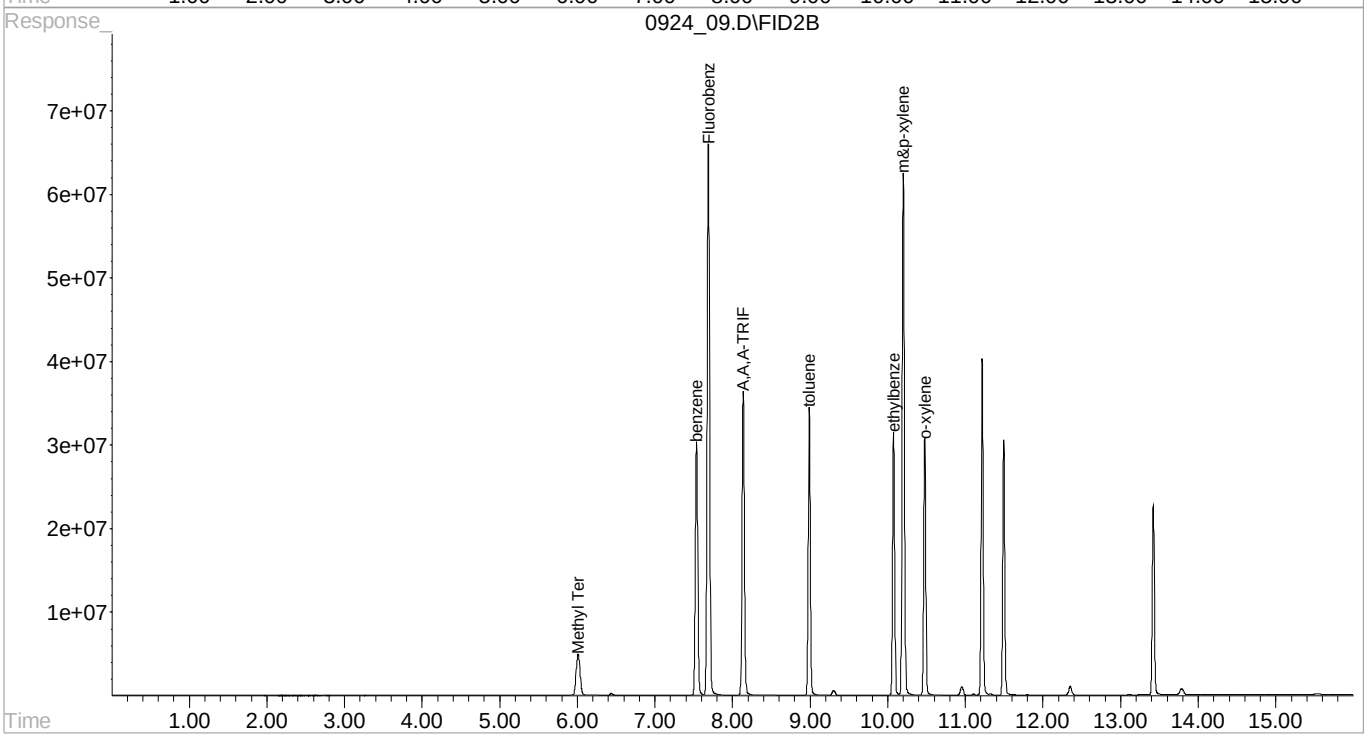
Quantitation Report (QT Reviewed)

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 :
```

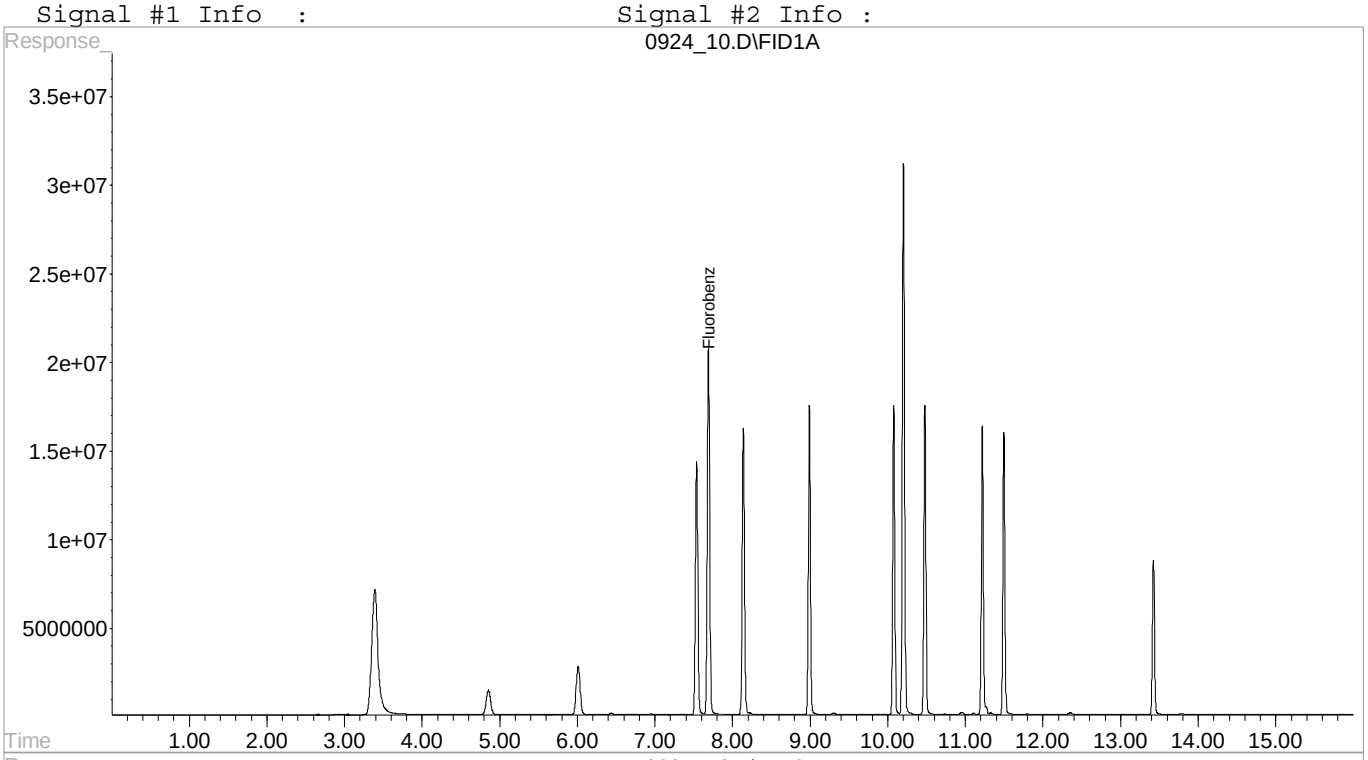
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	428853520	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1408287038	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	332926797	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

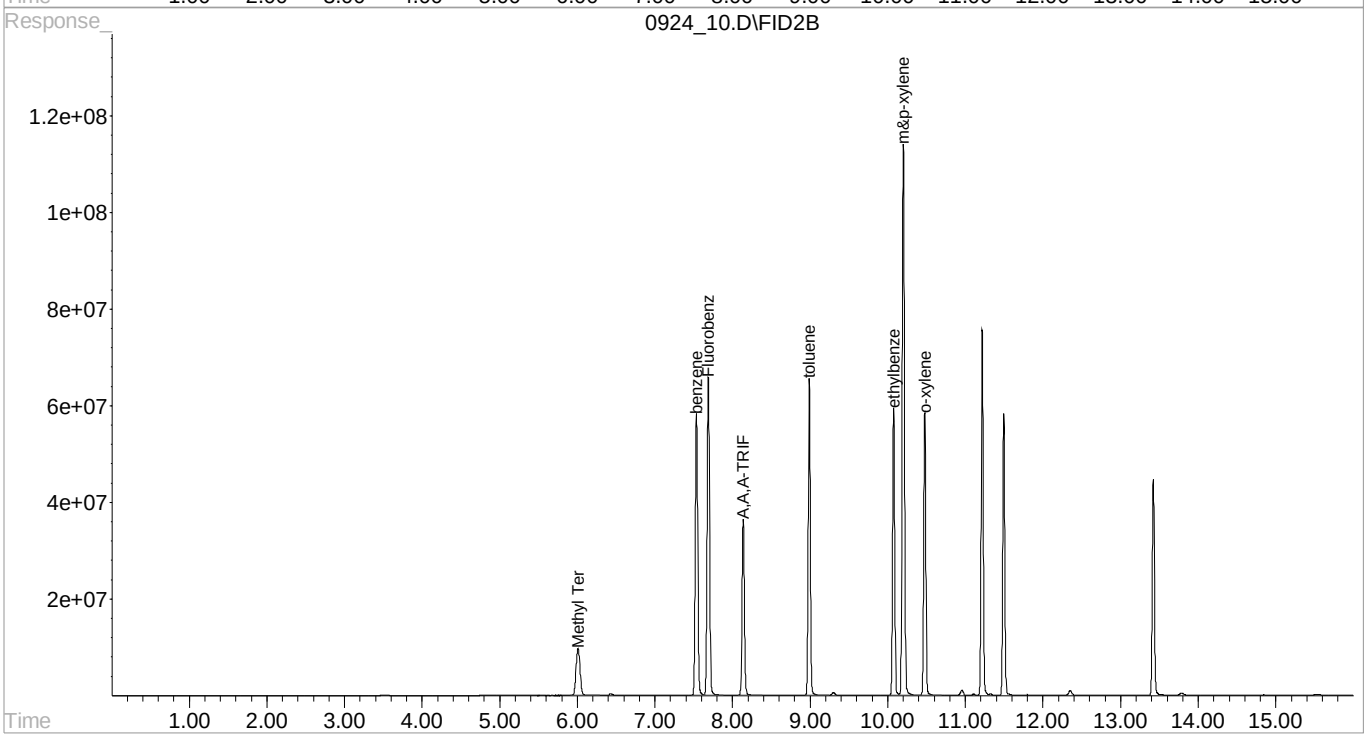
Quantitation Report (Not Reviewed)

```
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 :
```

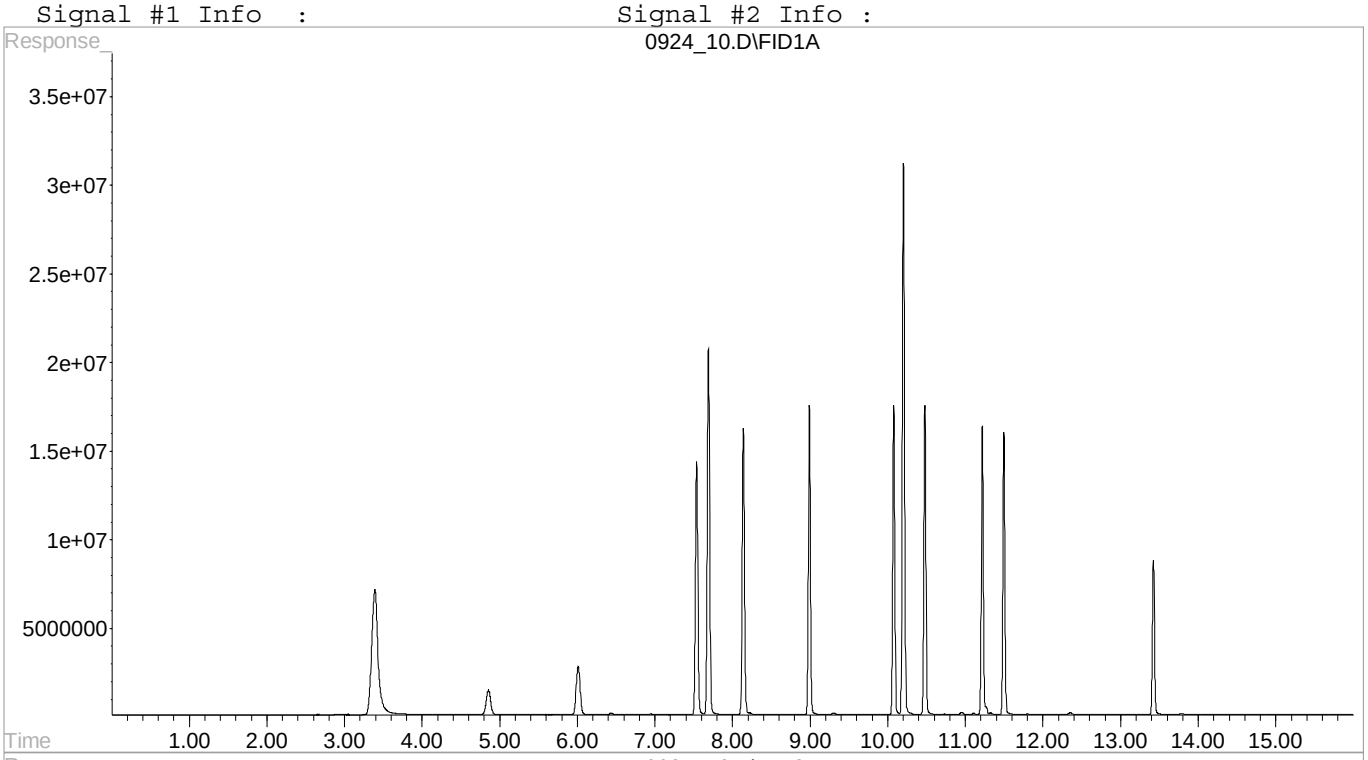
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1408287038	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	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

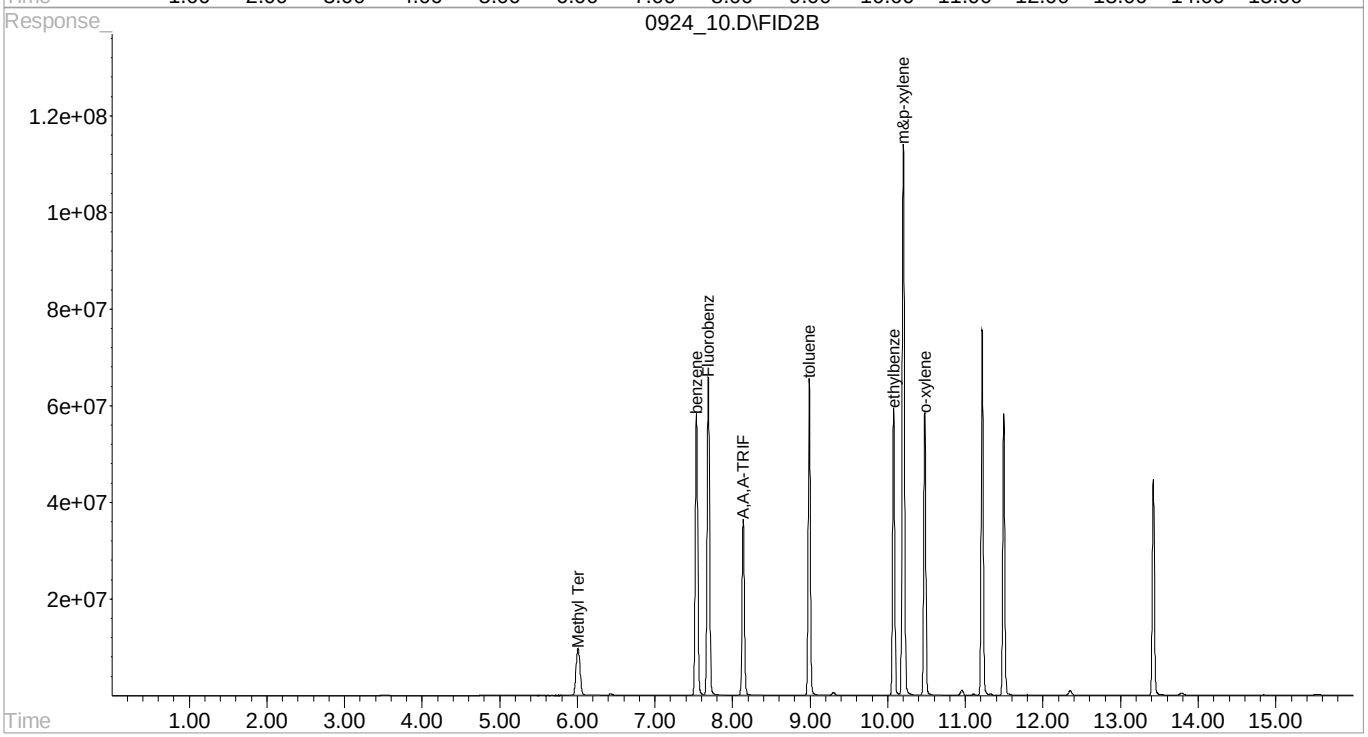
Quantitation Report (QT Reviewed)

```
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 :
```

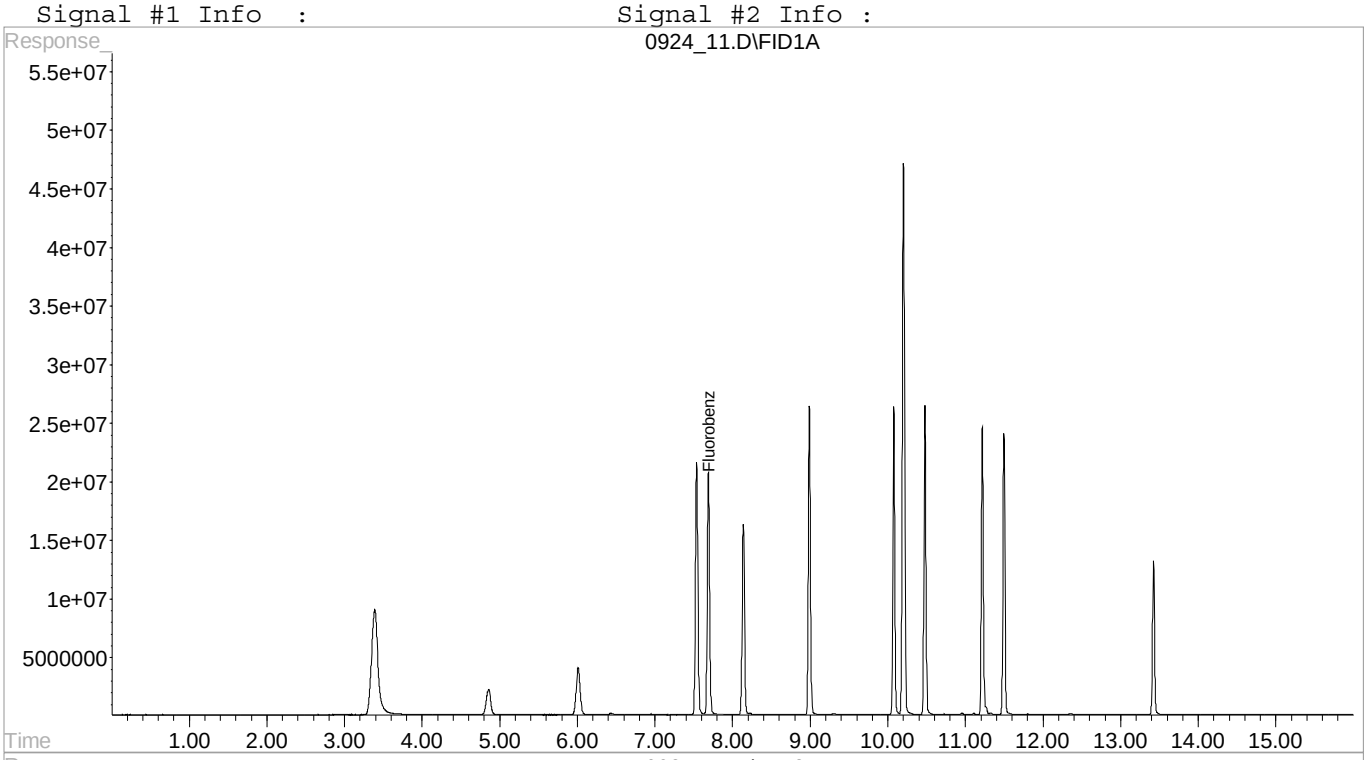
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	430666677	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1419641344	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	334616747	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

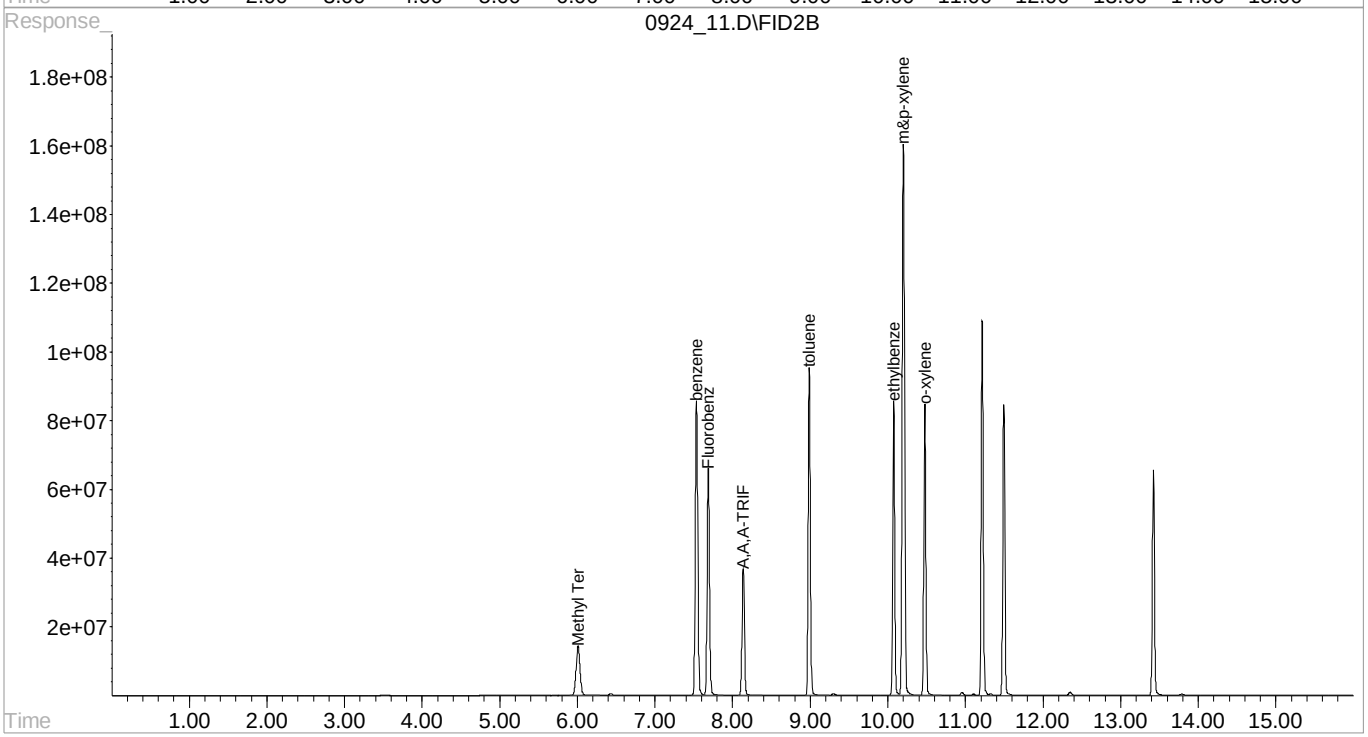
Quantitation Report (Not Reviewed)

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 :
```

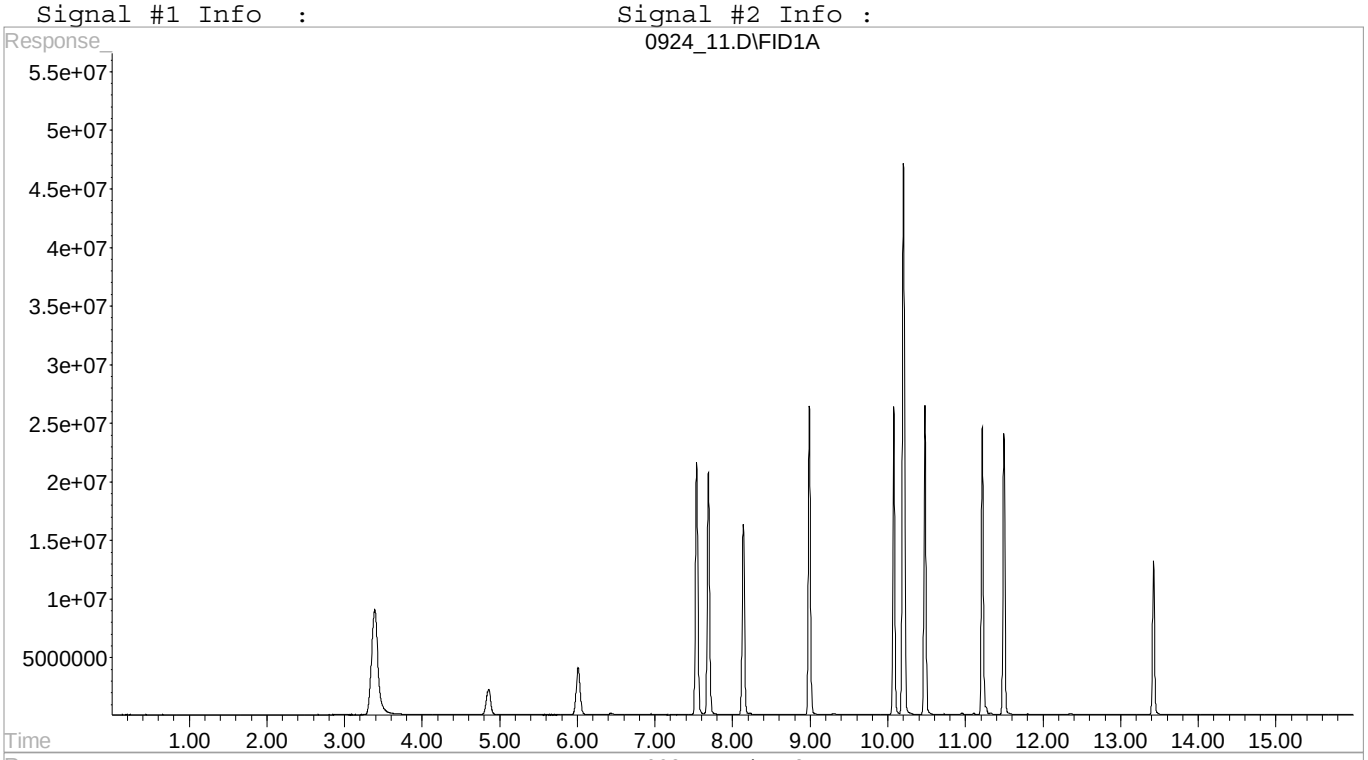
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1419641344	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	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

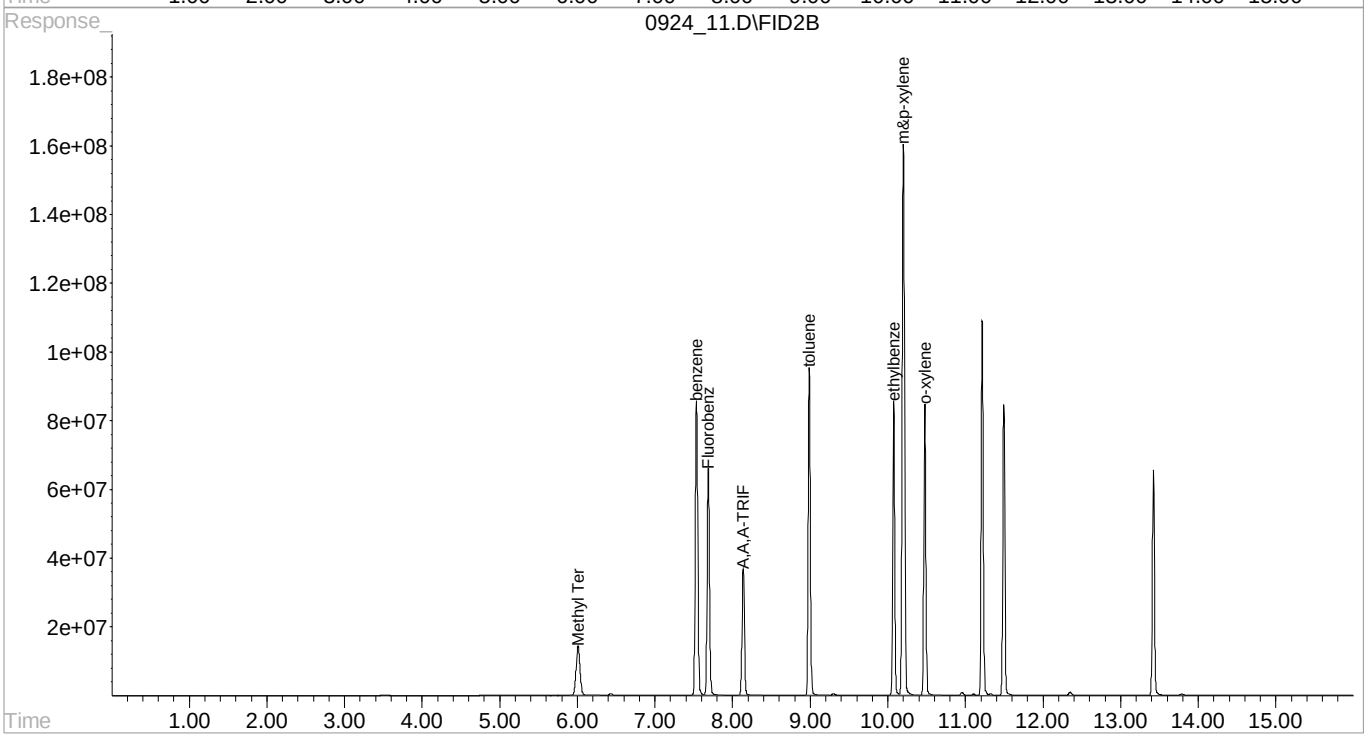
Quantitation Report (QT Reviewed)

```
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 :
```

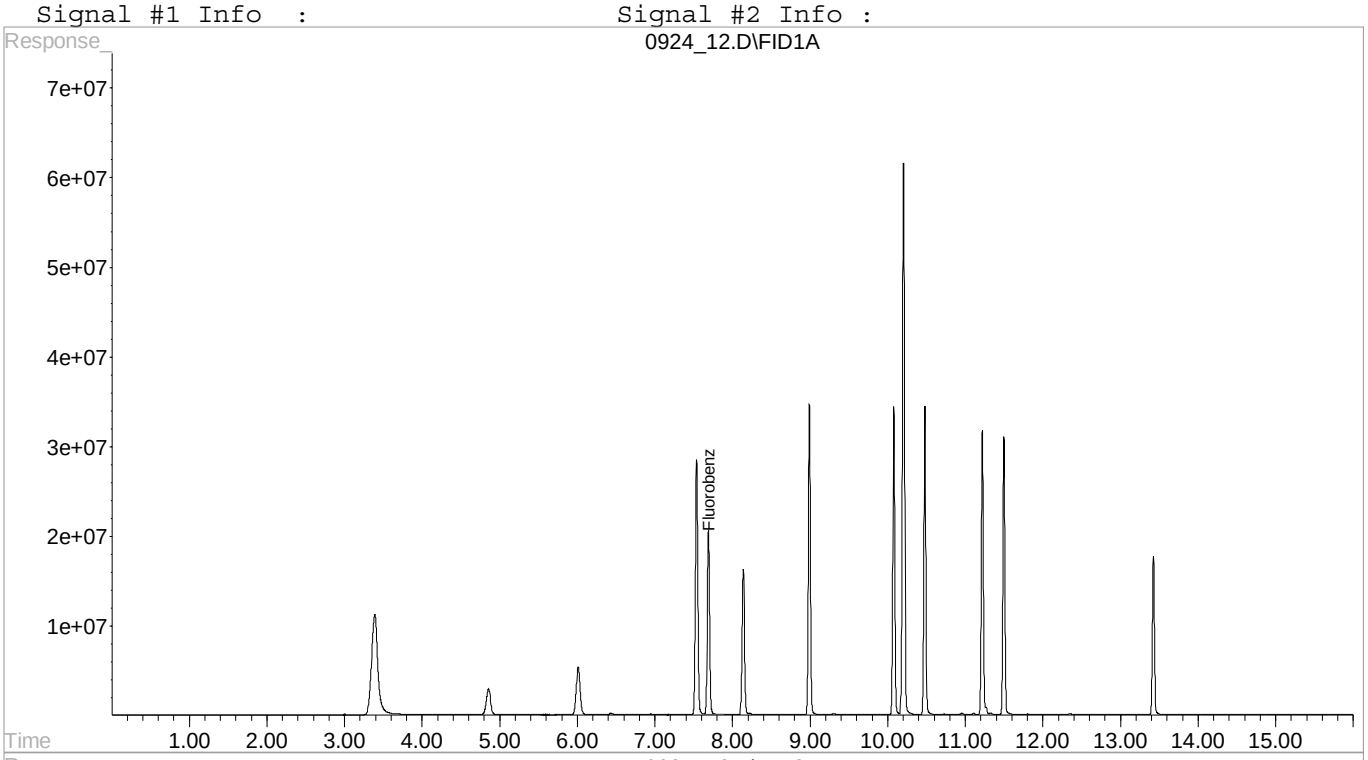
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	426882409	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1410890124	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	337485906	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

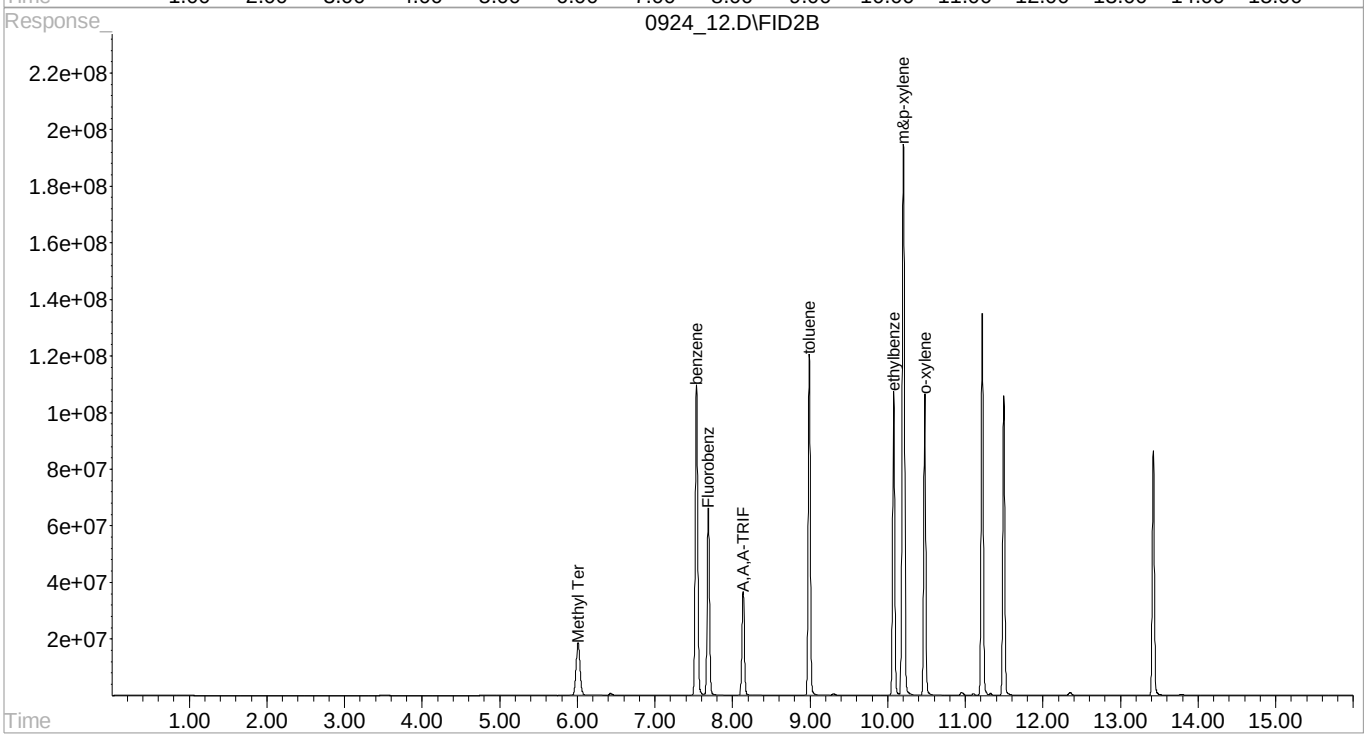
Quantitation Report (Not Reviewed)

```
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 :
```

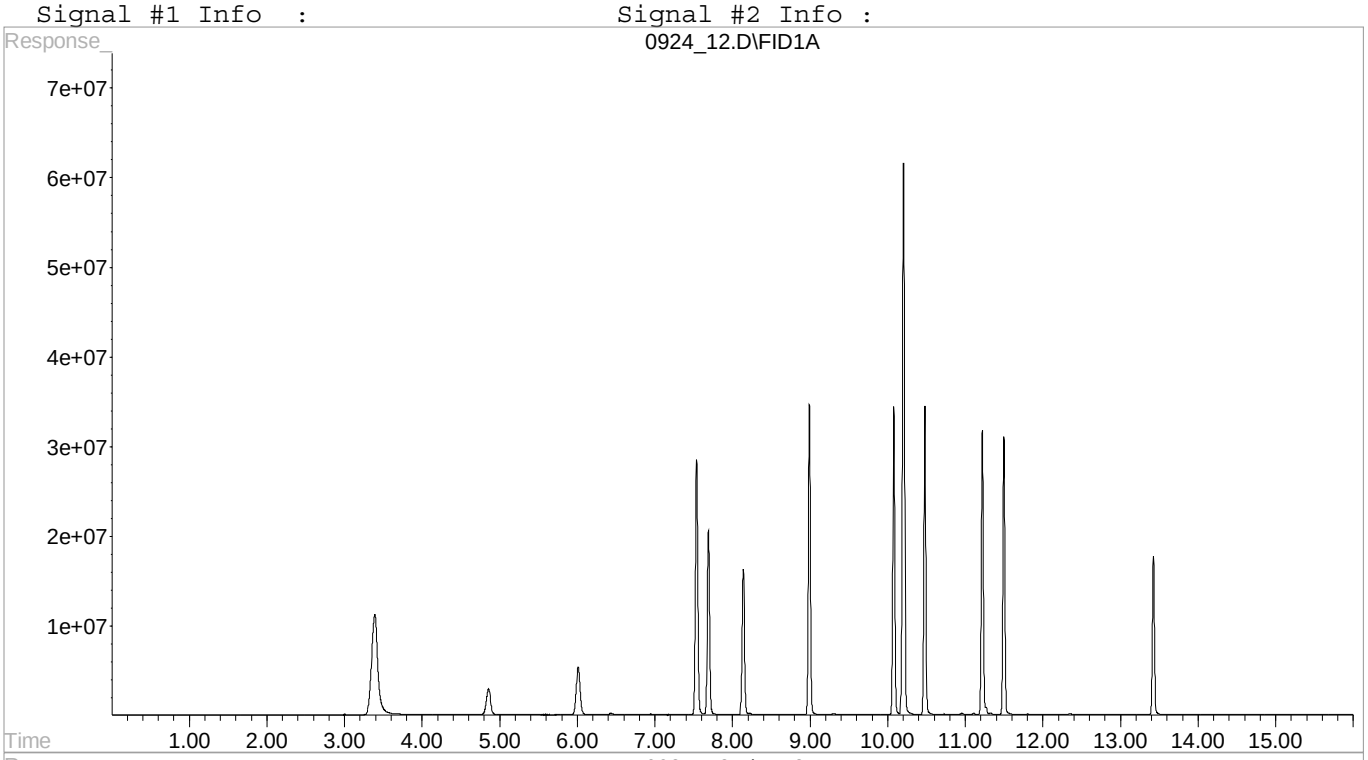
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1410890124	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	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

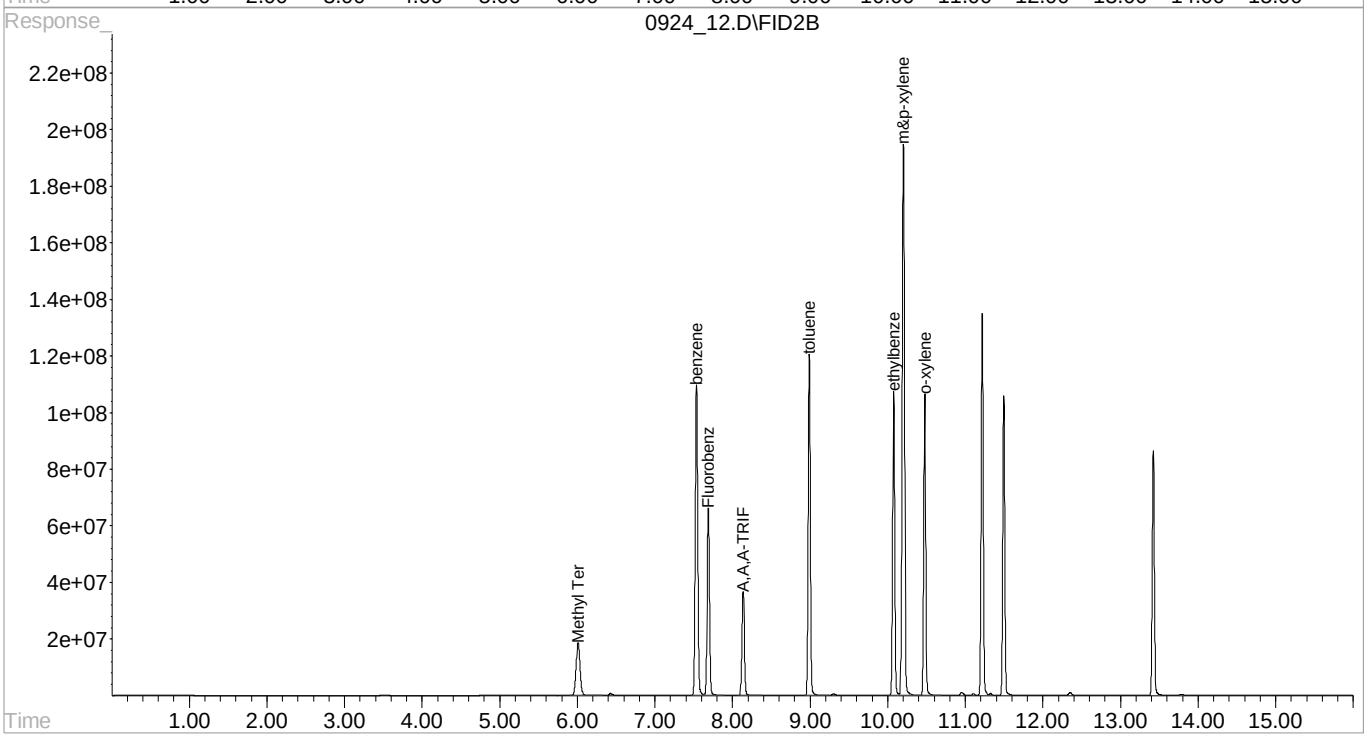
Quantitation Report (QT Reviewed)

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 :
```

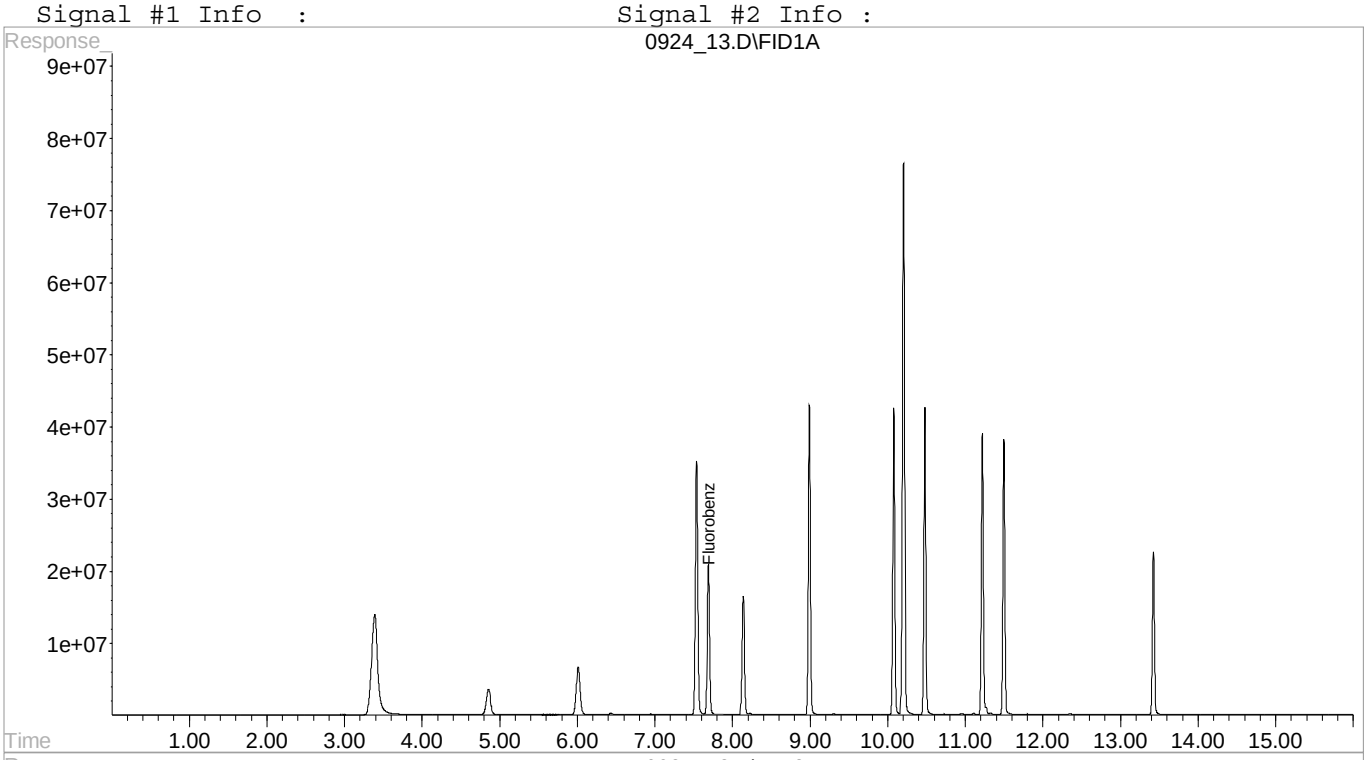
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	431689227	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1430037371	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	343116389	NoCal	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

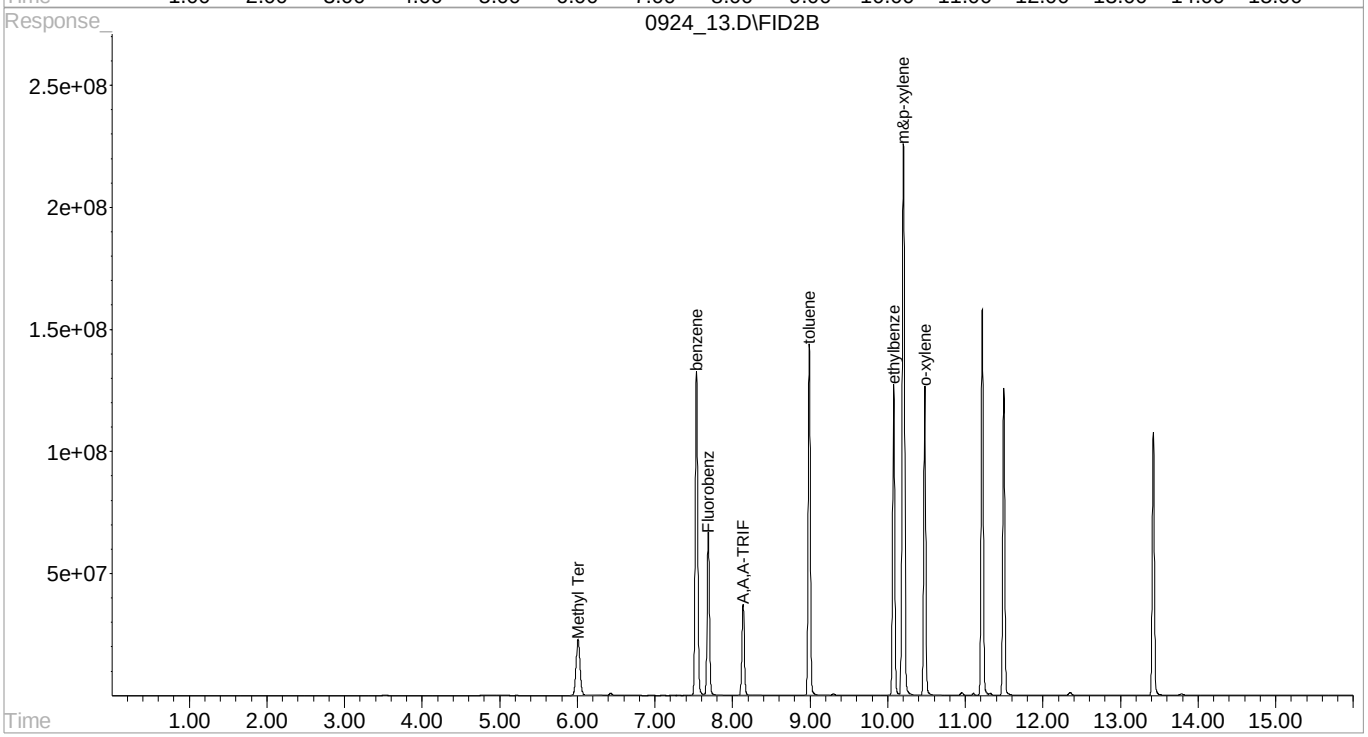
Quantitation Report (Not Reviewed)

```
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 :
```

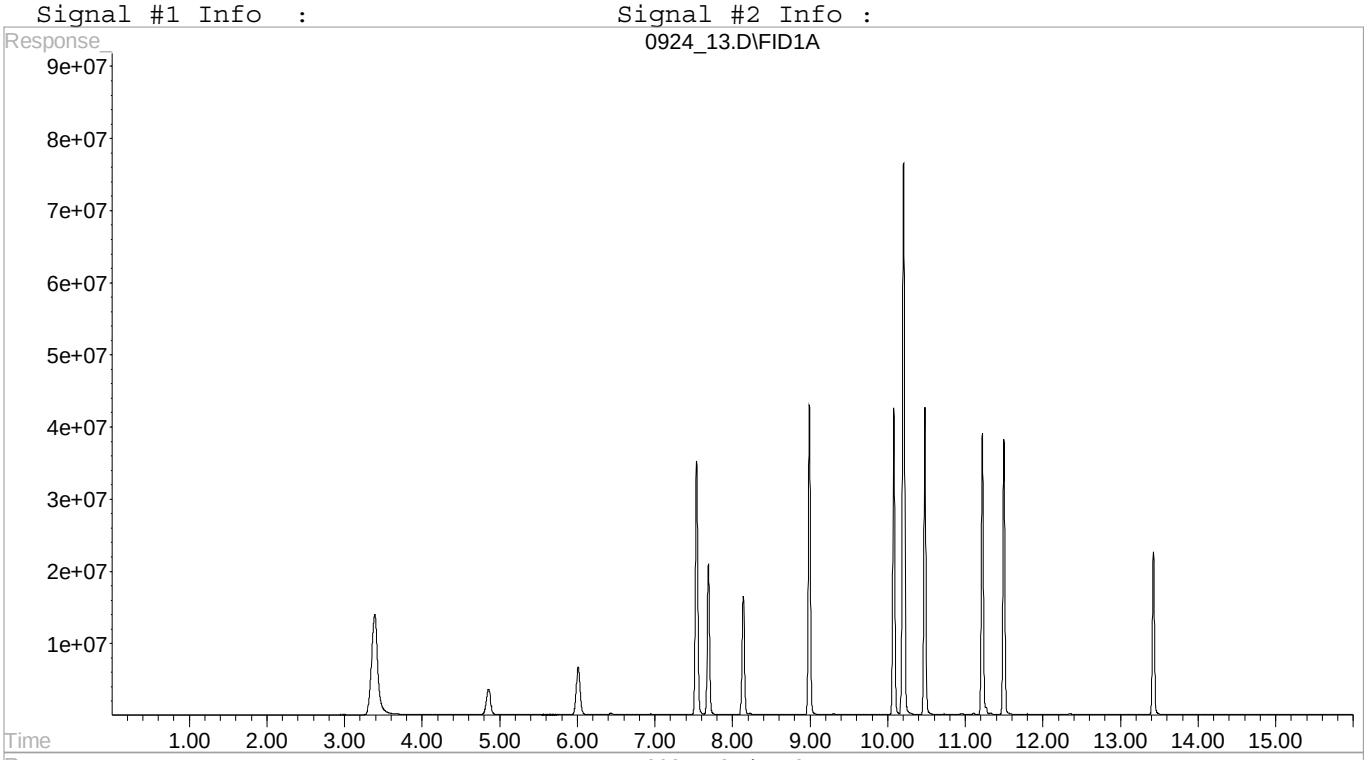
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	7.69	1430037371	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 70 - 130		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	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

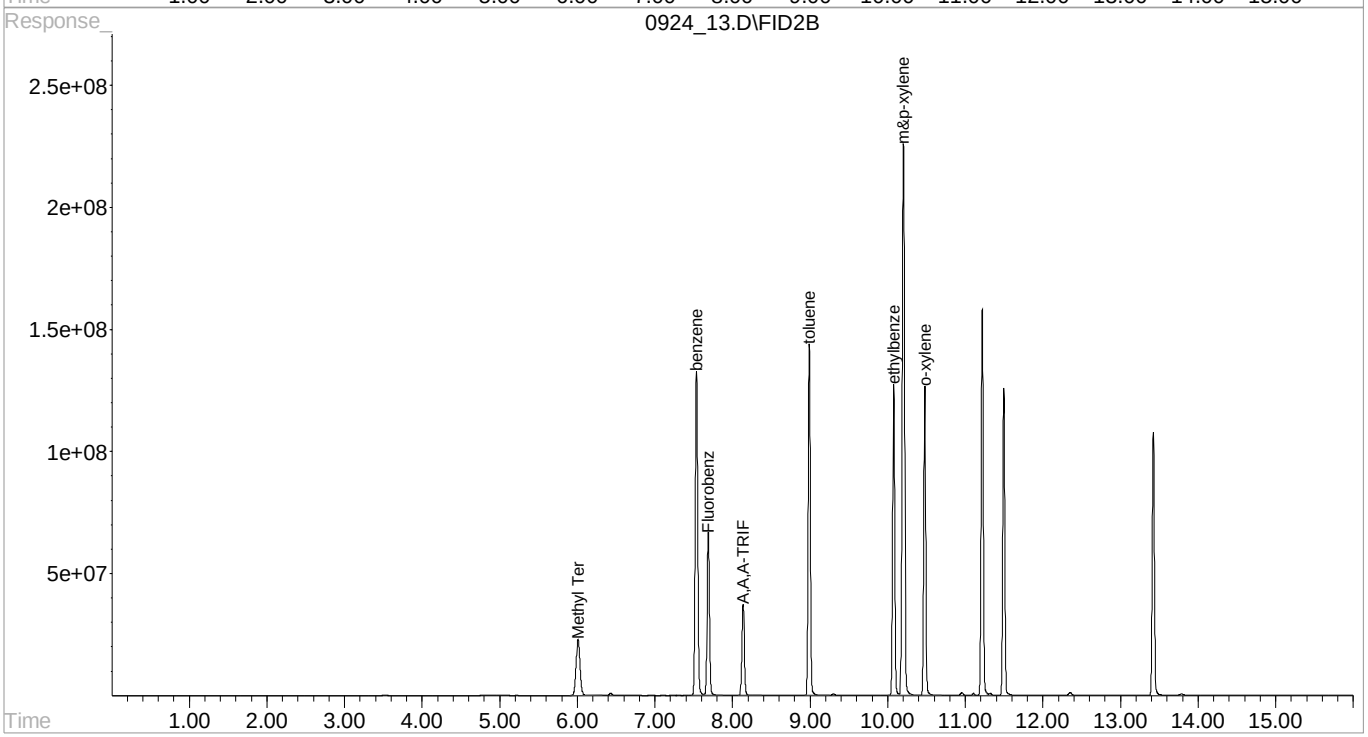
Quantitation Report (QT Reviewed)

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 :

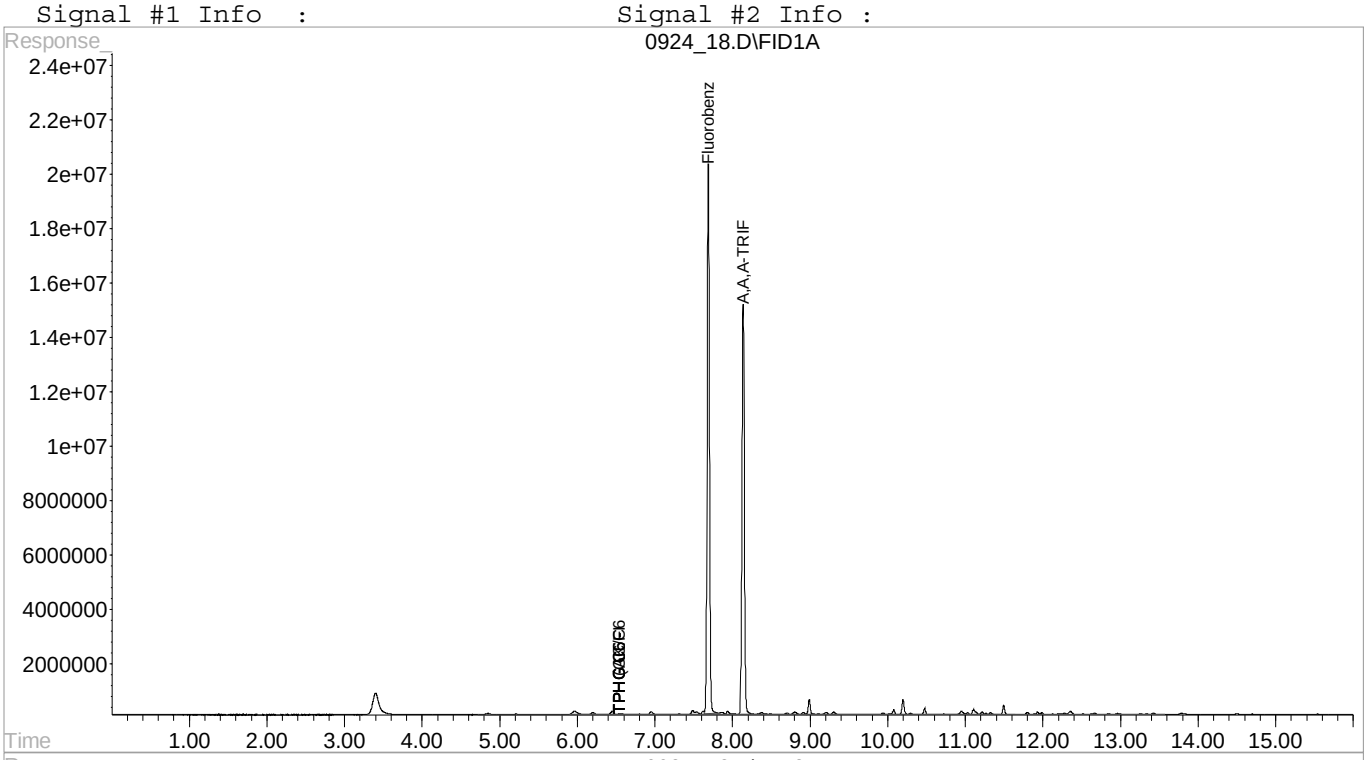
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	417751097	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1372188808	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	314861348	178.2666750	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

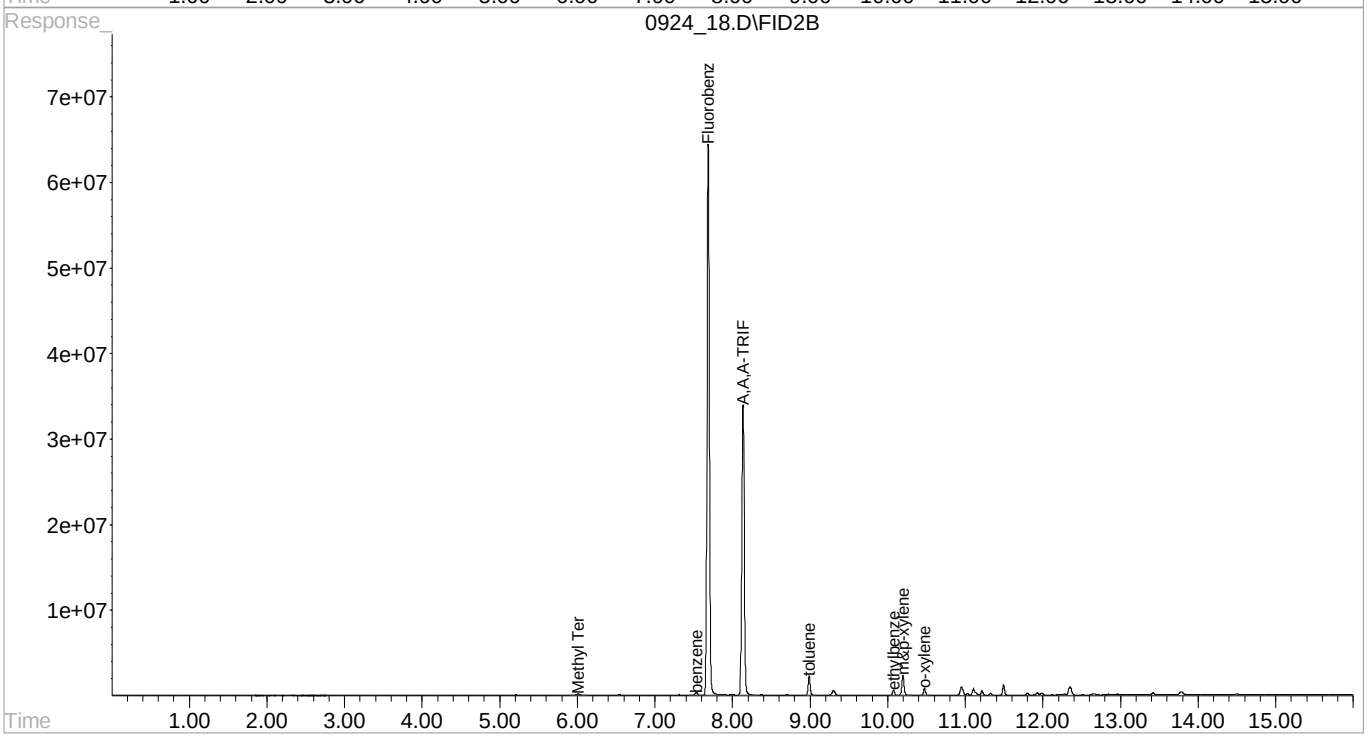
Quantitation Report (Not Reviewed)

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 :
```

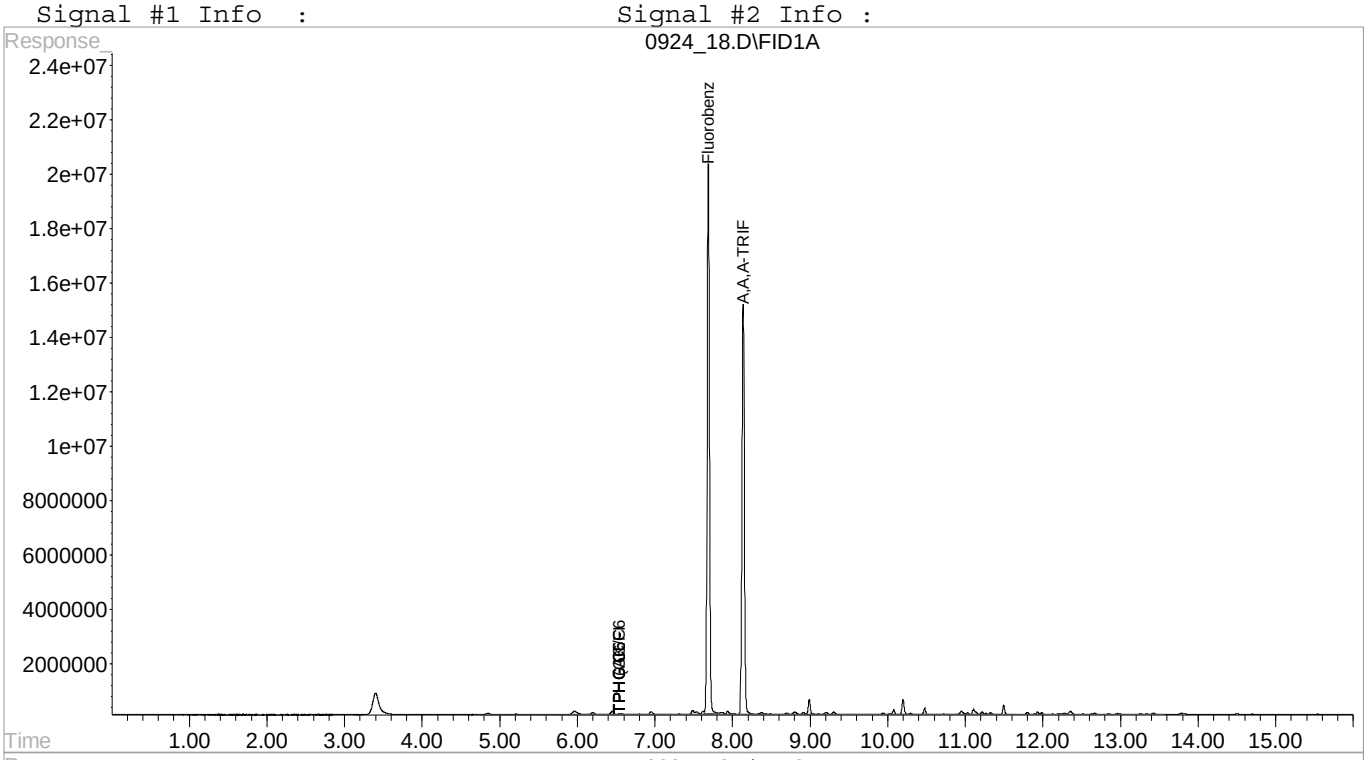
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	417751097	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	314861348	178.2666750	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	89.13%	
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

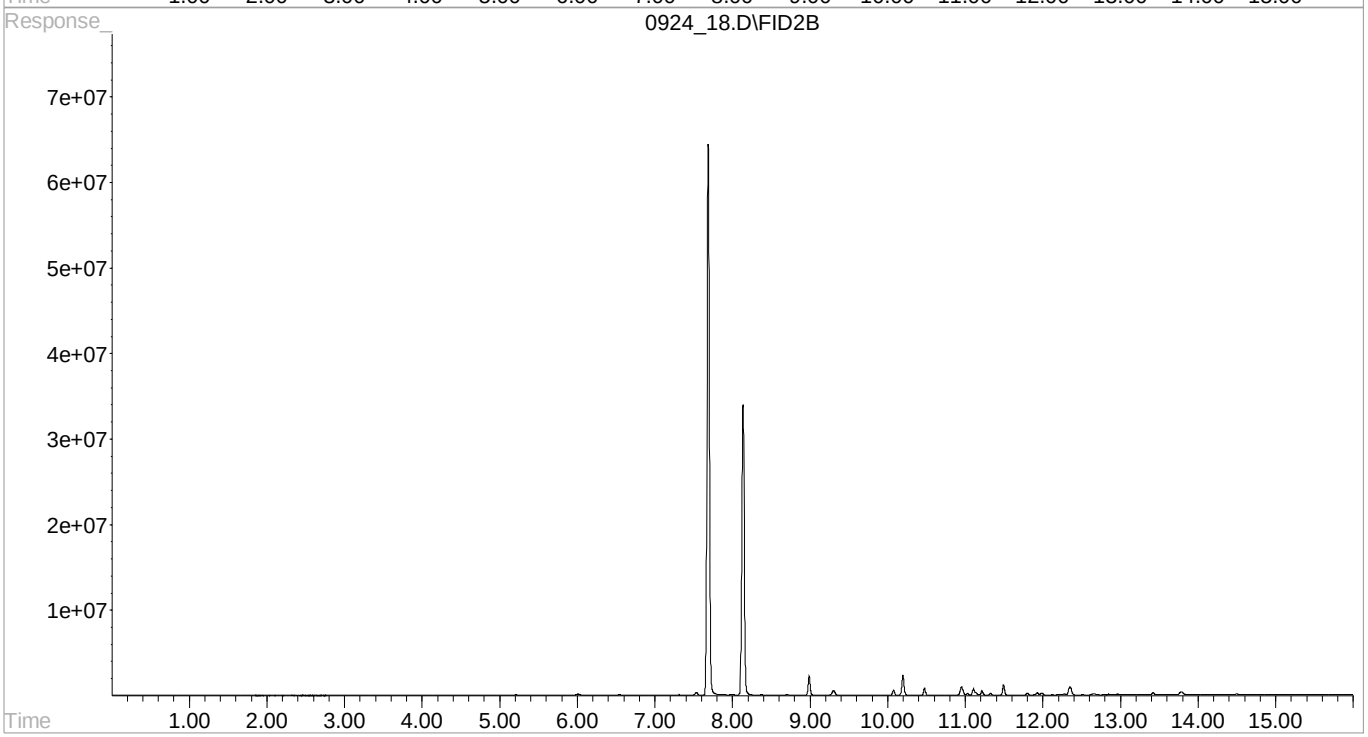
Quantitation Report (QT Reviewed)

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 :

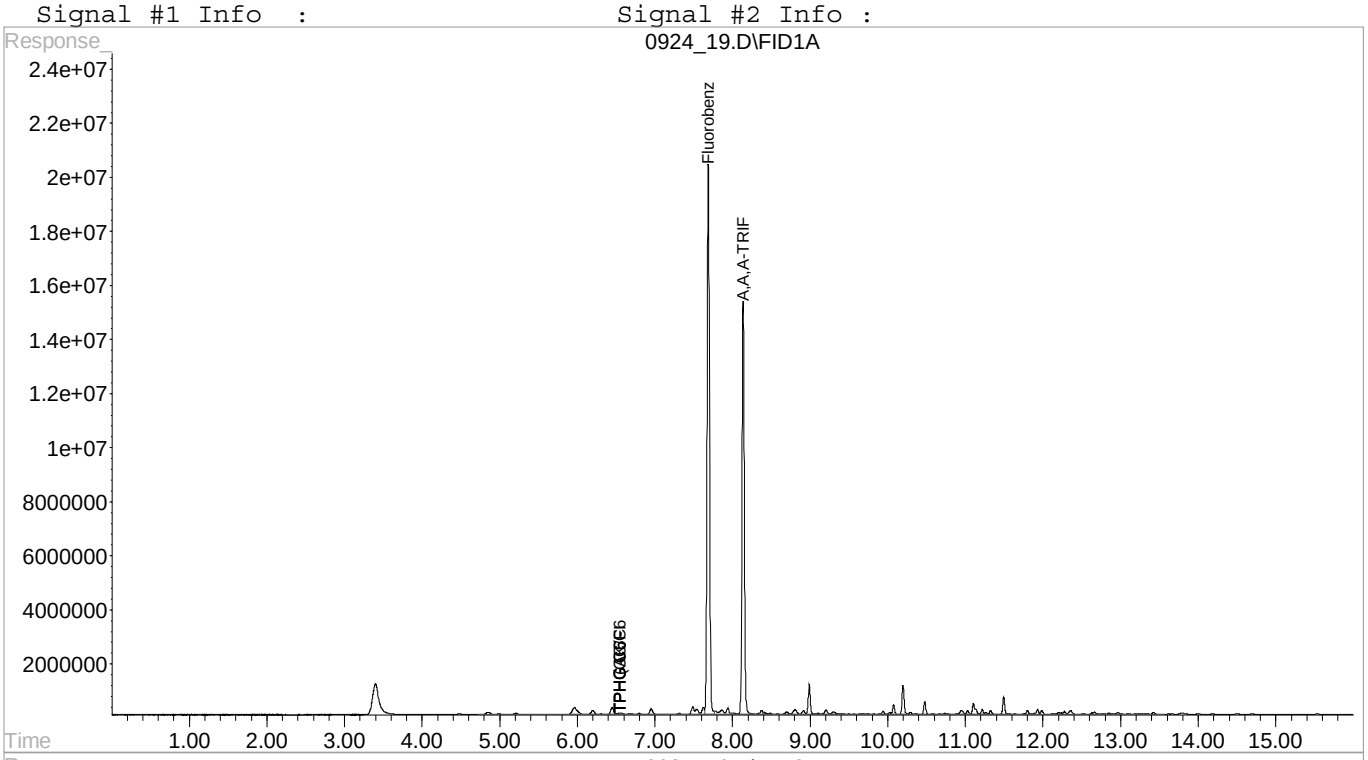
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	421433003	200.0000000 ppb
8) I Fluorobenzene #2	7.68	1373910042	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	319310332	179.2061219 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

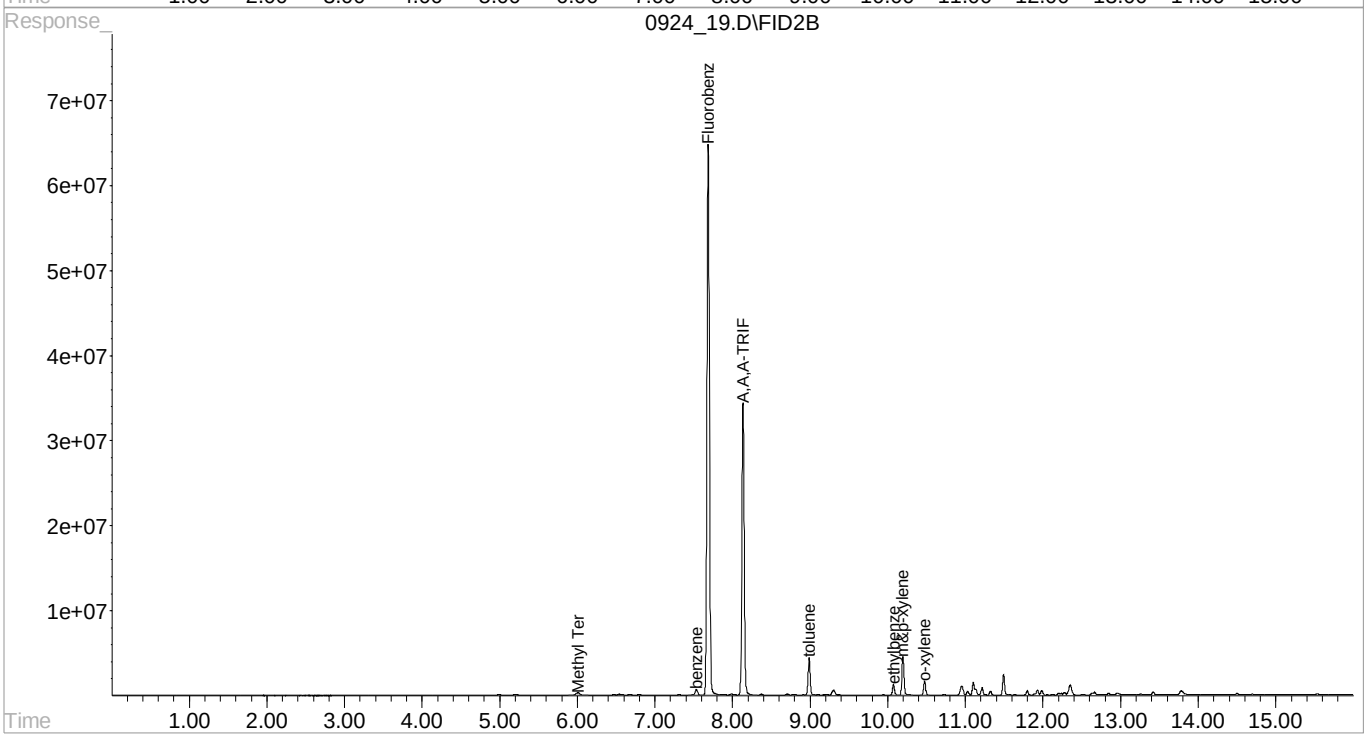
Quantitation Report (Not Reviewed)

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 :
```

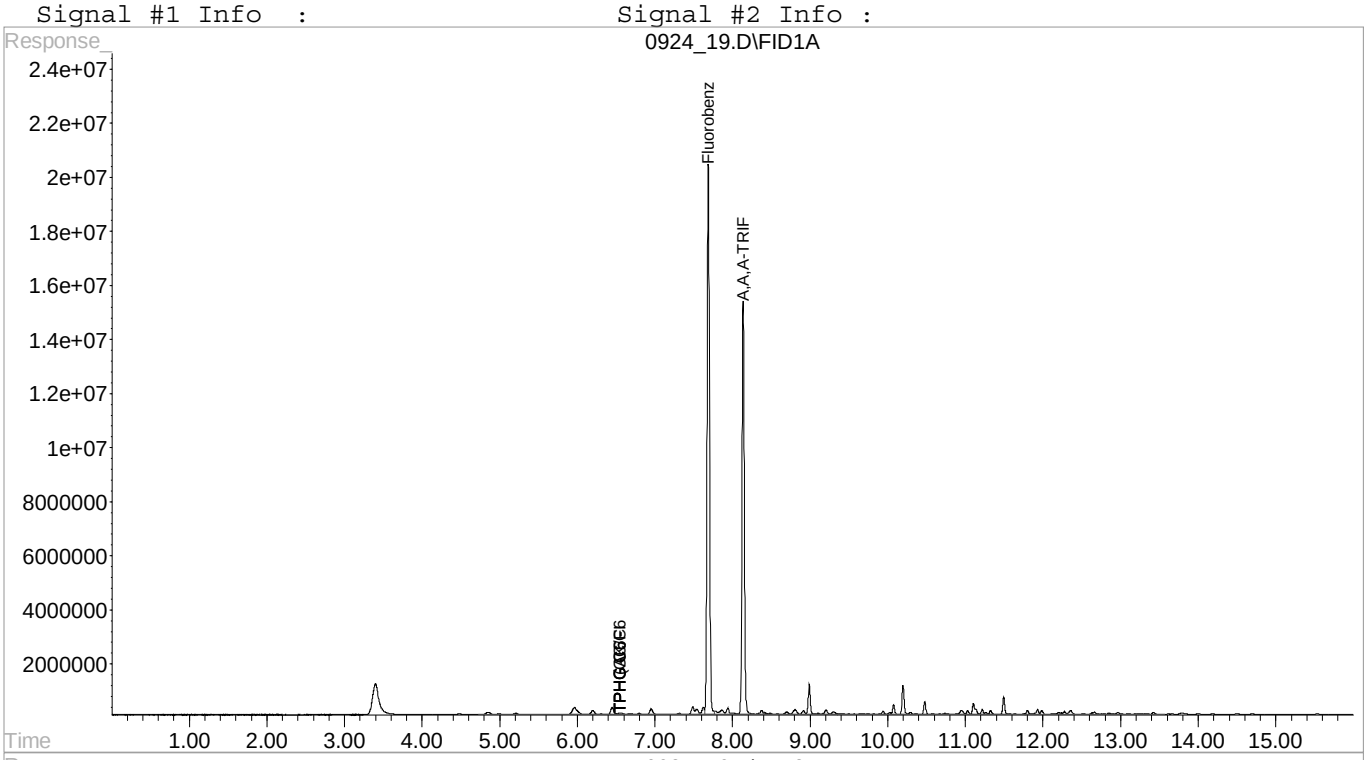
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	421433003	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	319310332	179.2061219	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	89.60%	
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

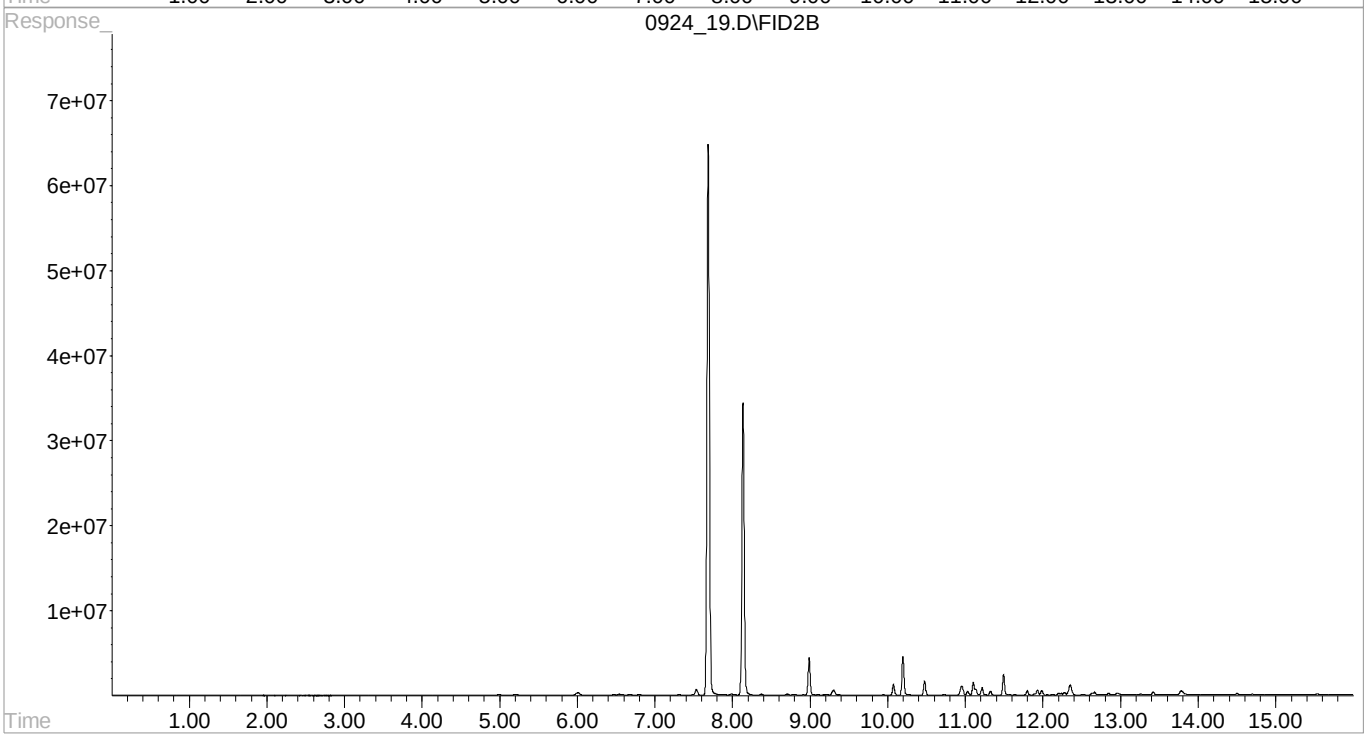
Quantitation Report (QT Reviewed)

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 :

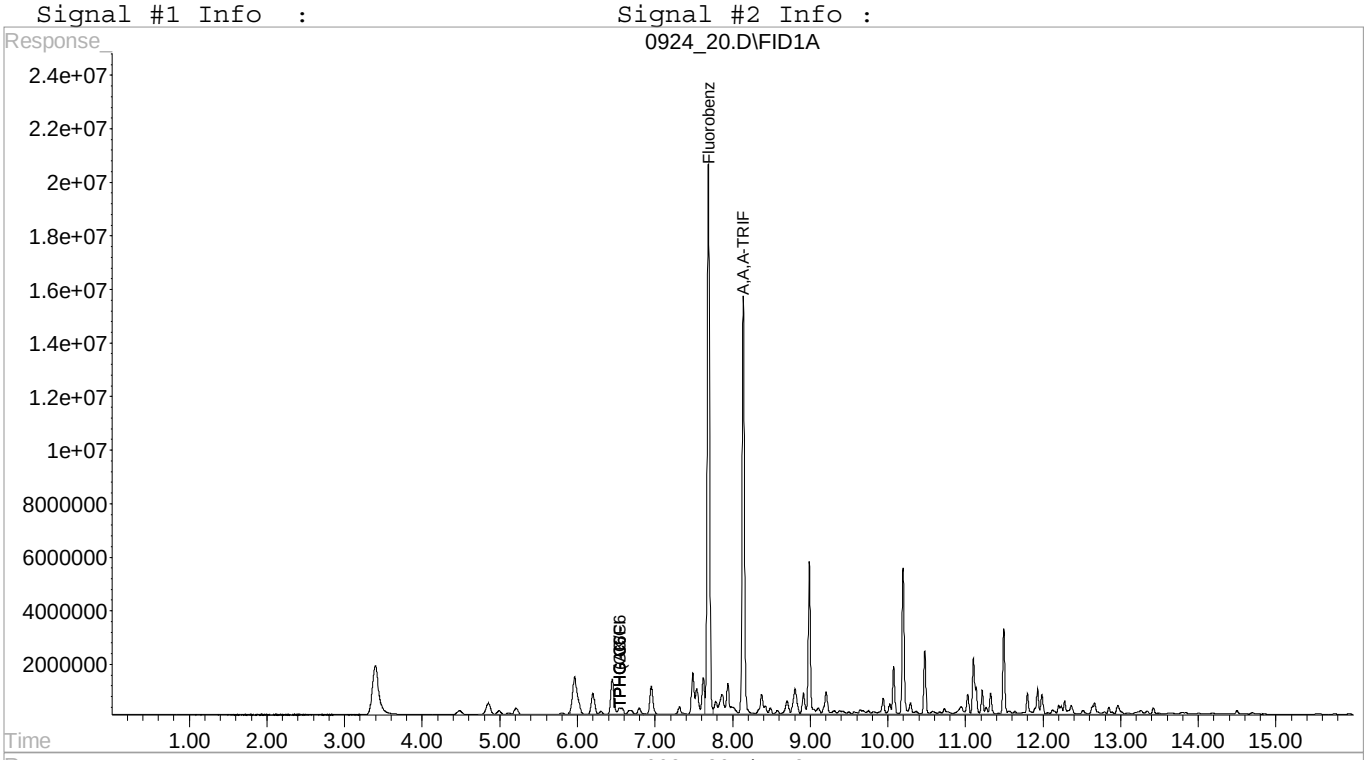
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	427710675	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1388226489	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	333014278	184.1540091	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

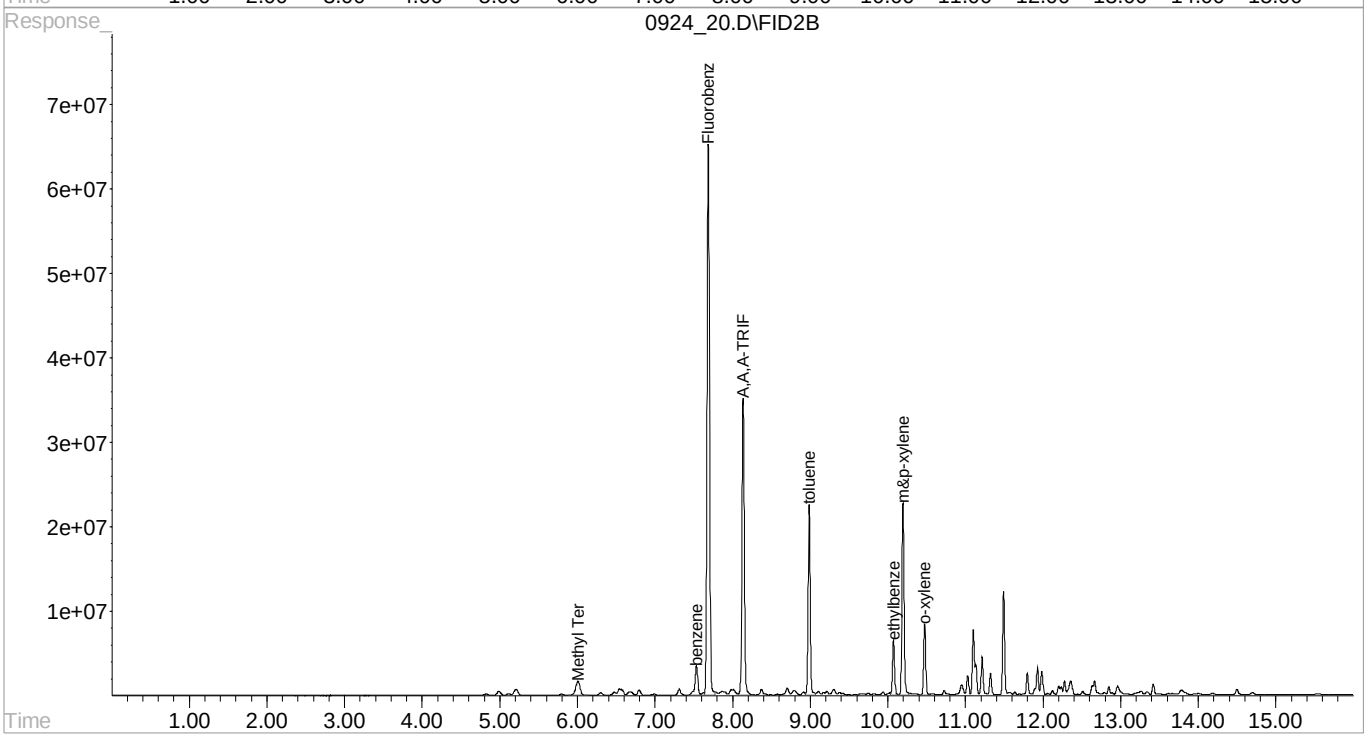
Quantitation Report (Not Reviewed)

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 :

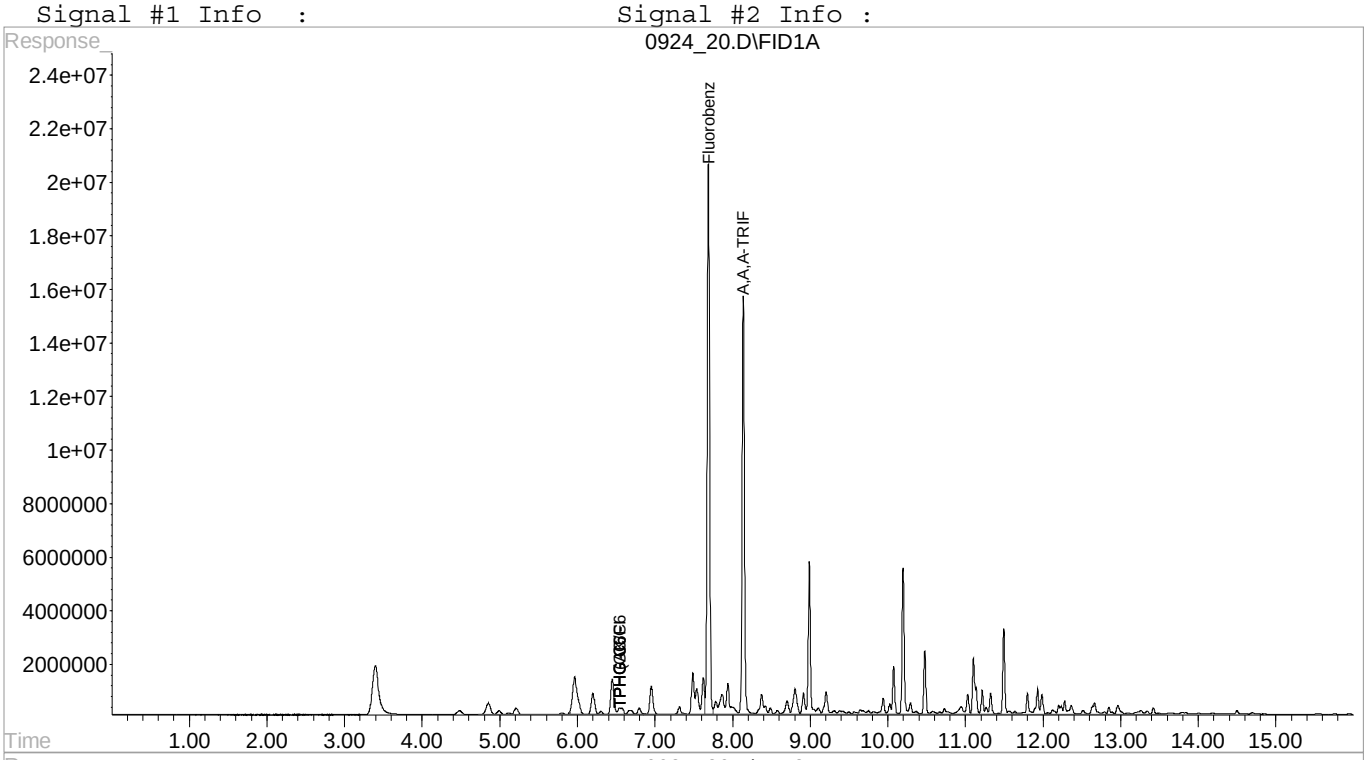
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	427710675	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	333014278	184.1540091	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	92.08%	
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

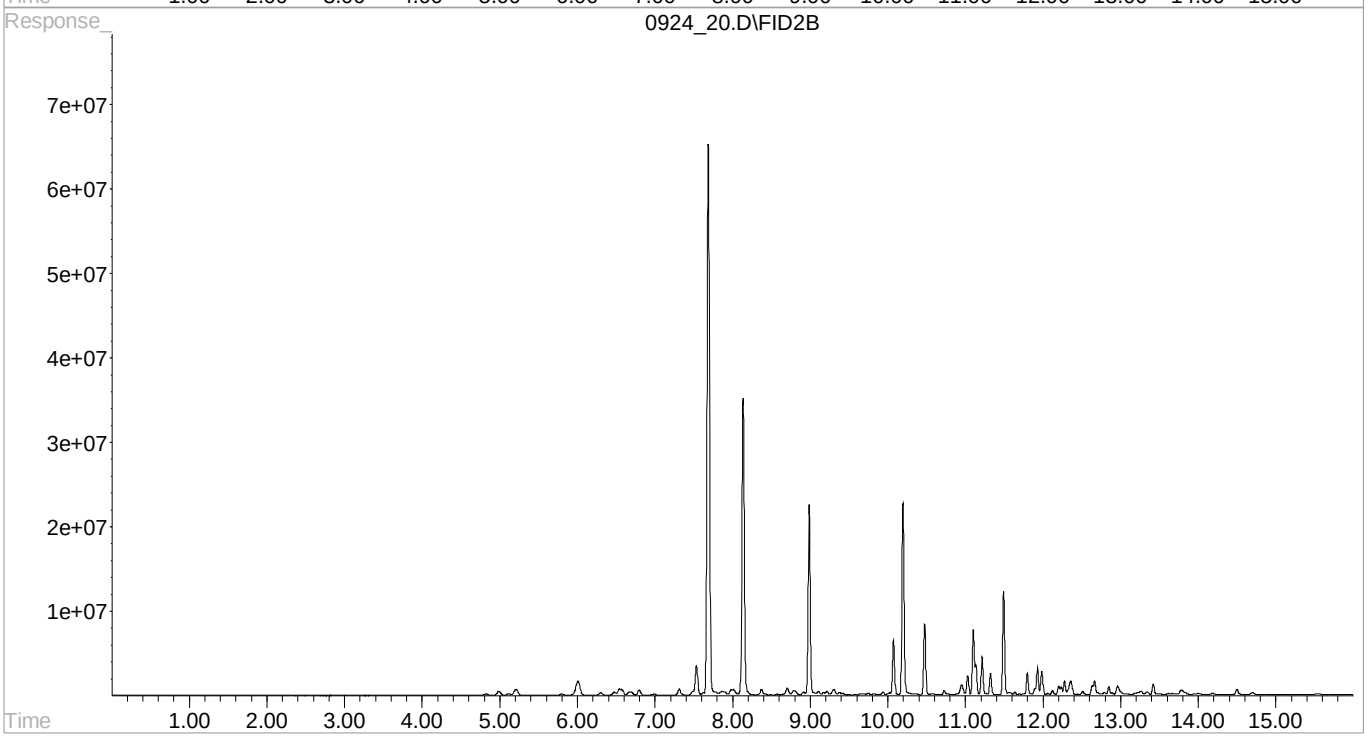
Quantitation Report (QT Reviewed)

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 :

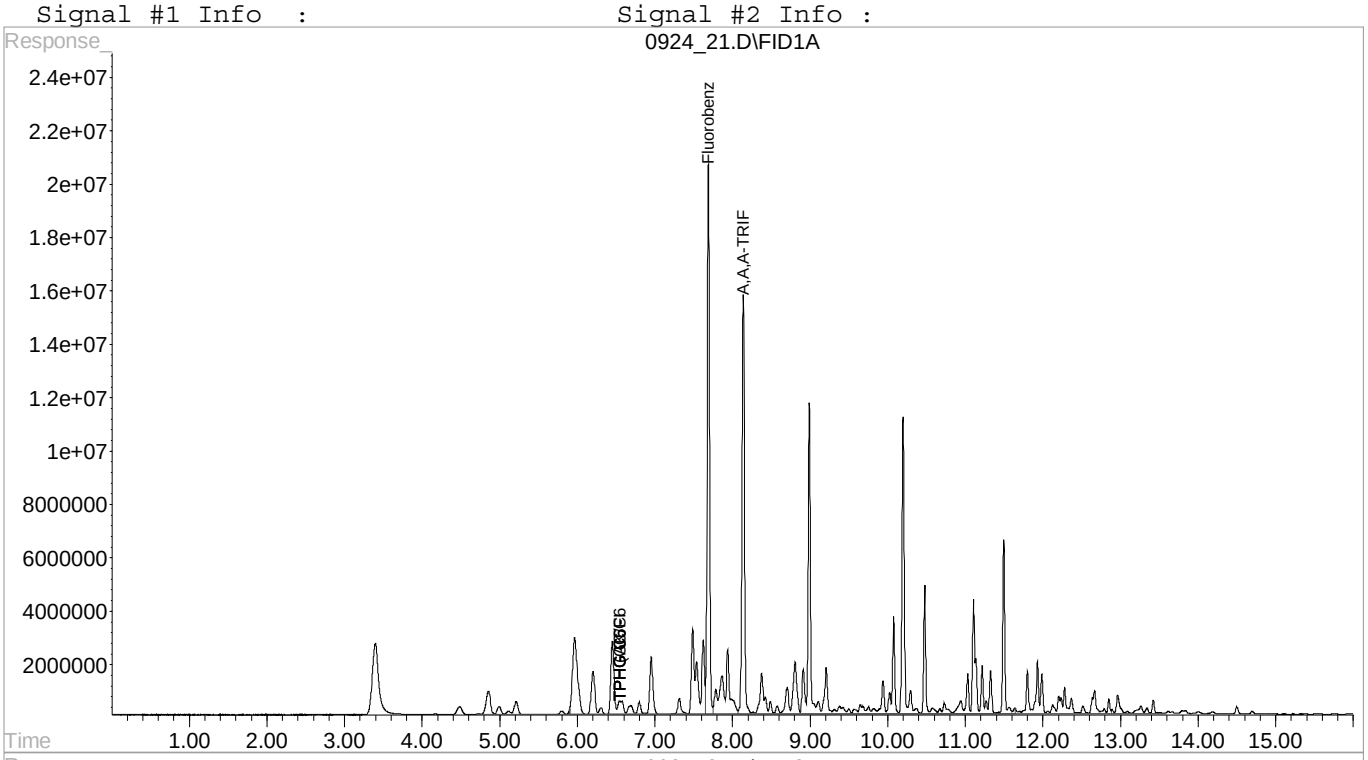
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	430492449	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1395541497	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	338491269	185.9731922 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

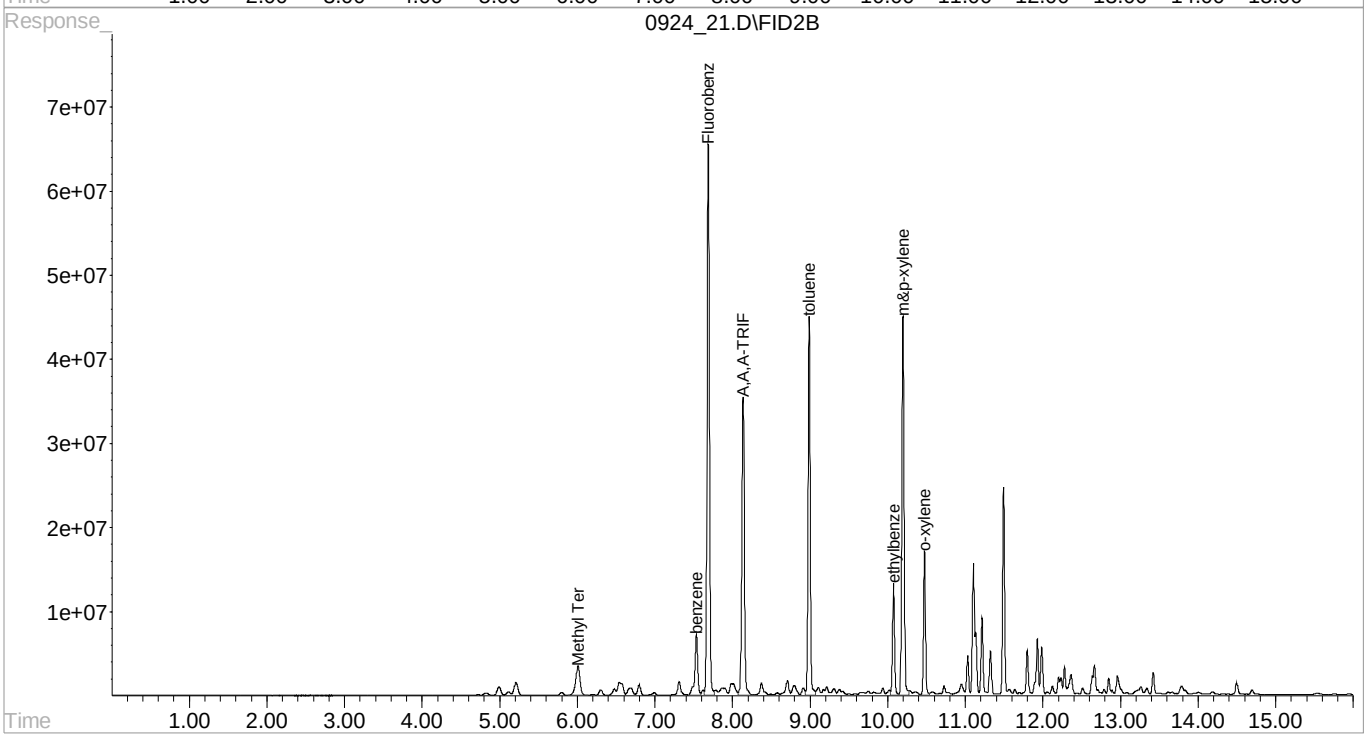
Quantitation Report (Not Reviewed)

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 :
```

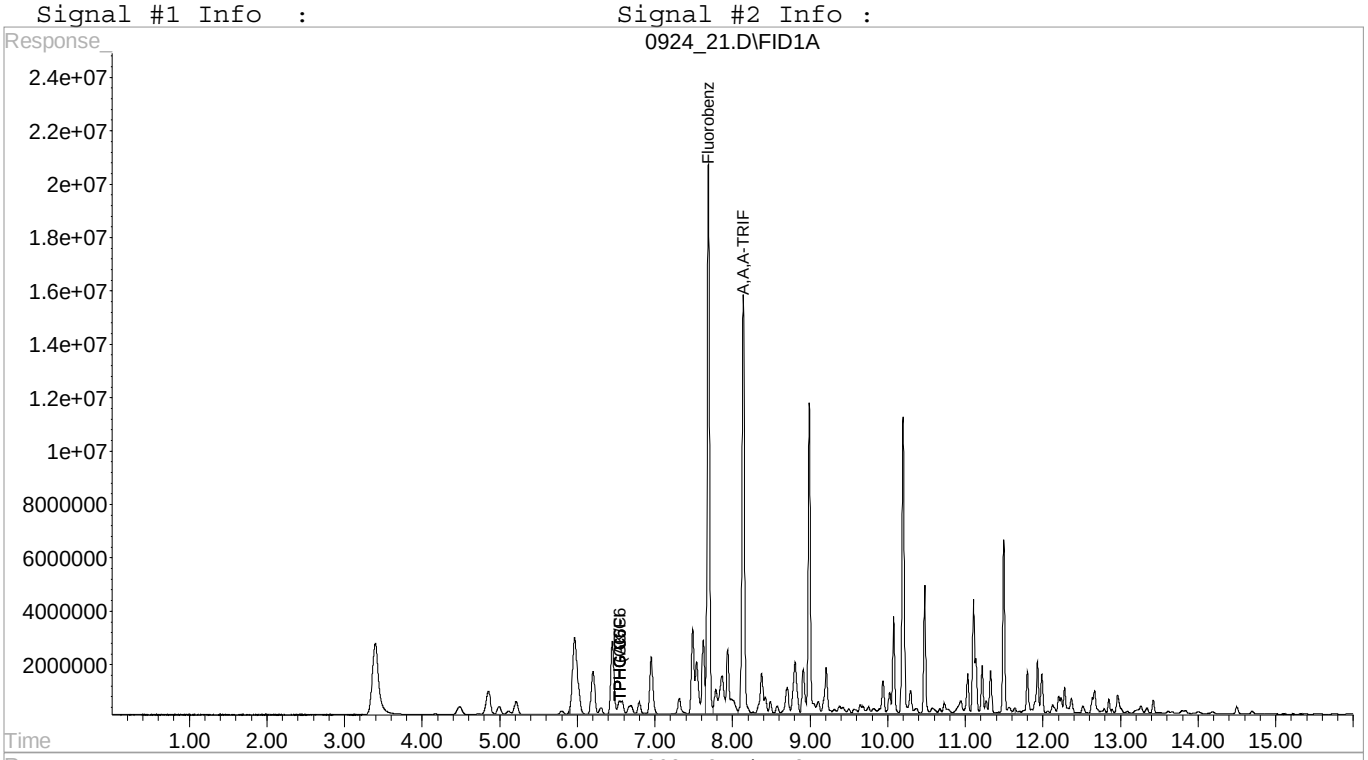
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	430492449	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	338491269	185.9731922	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	92.99%	
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

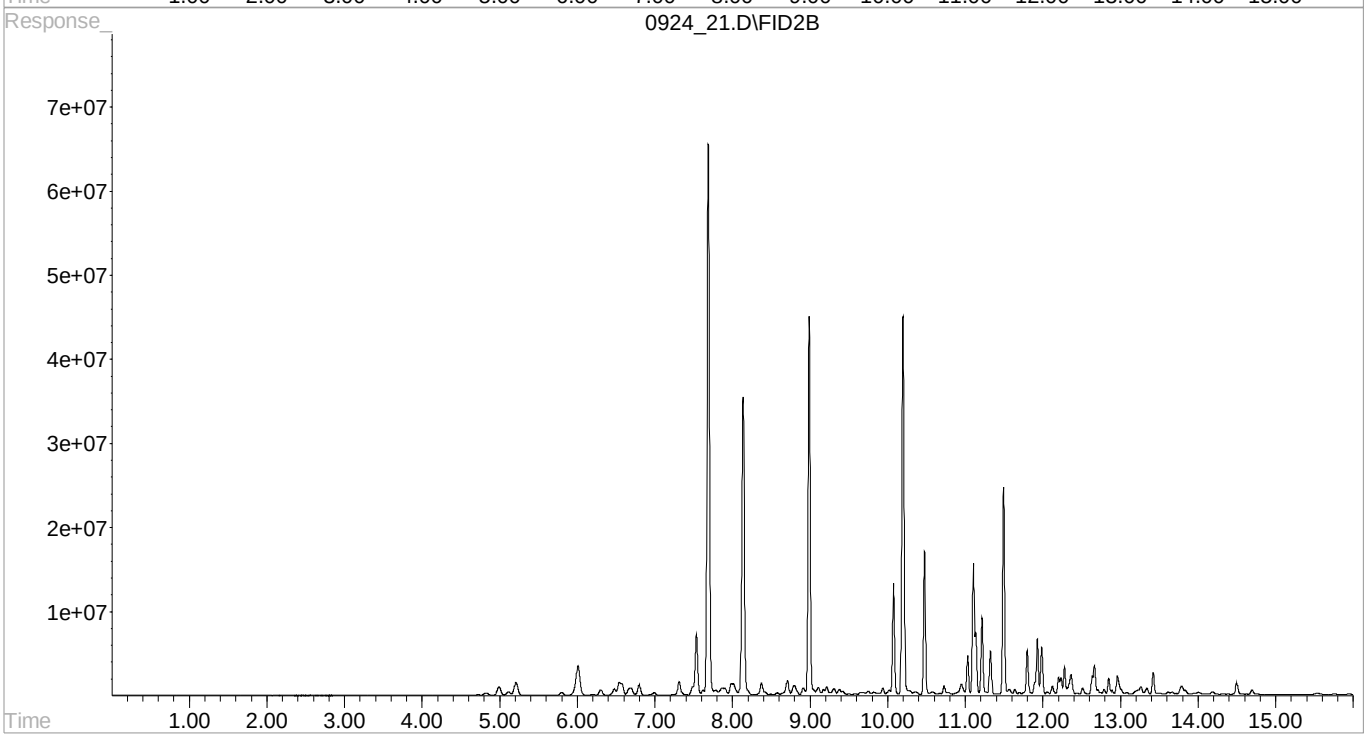
Quantitation Report (QT Reviewed)

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 :

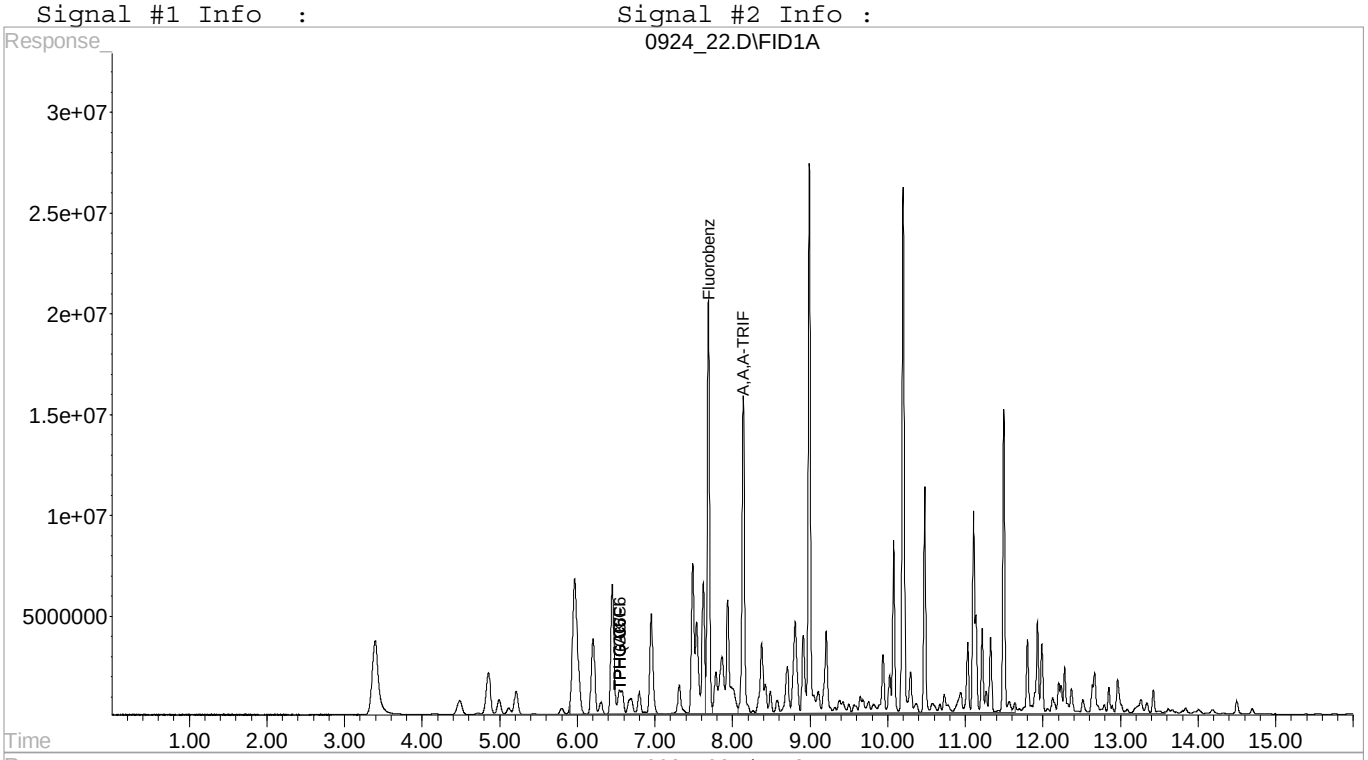
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	429358170	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1389925831	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	354472141	195.2678705 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

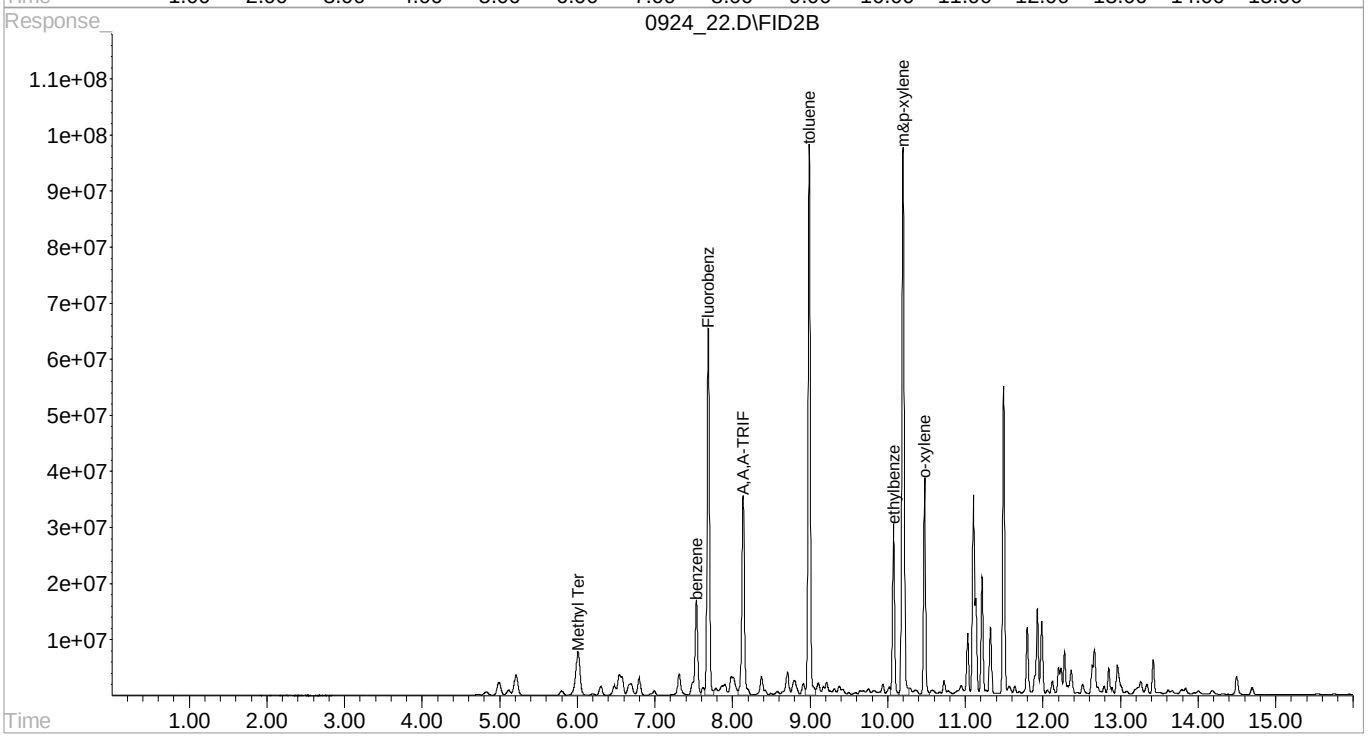
Quantitation Report (Not Reviewed)

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)

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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 :
```

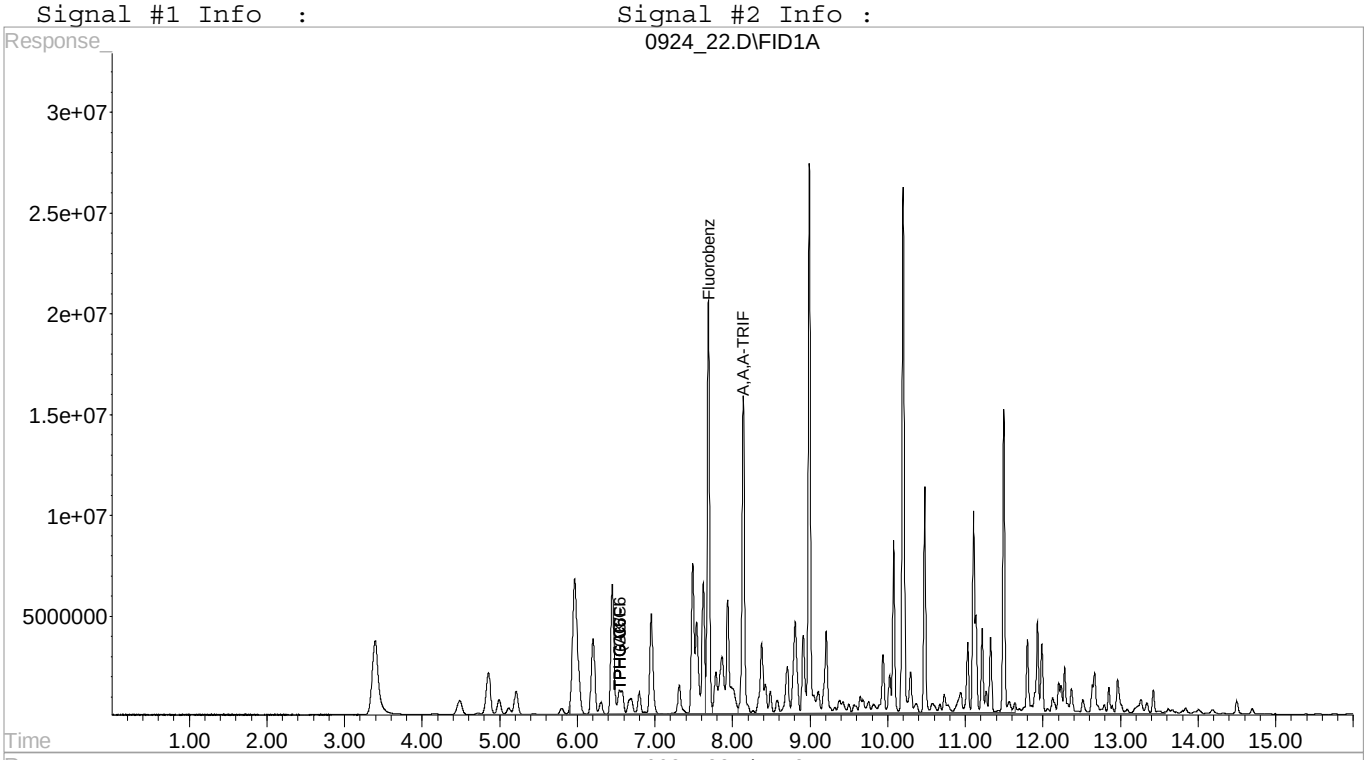
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	429358170	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	354472141	195.2678705	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	97.63%	
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

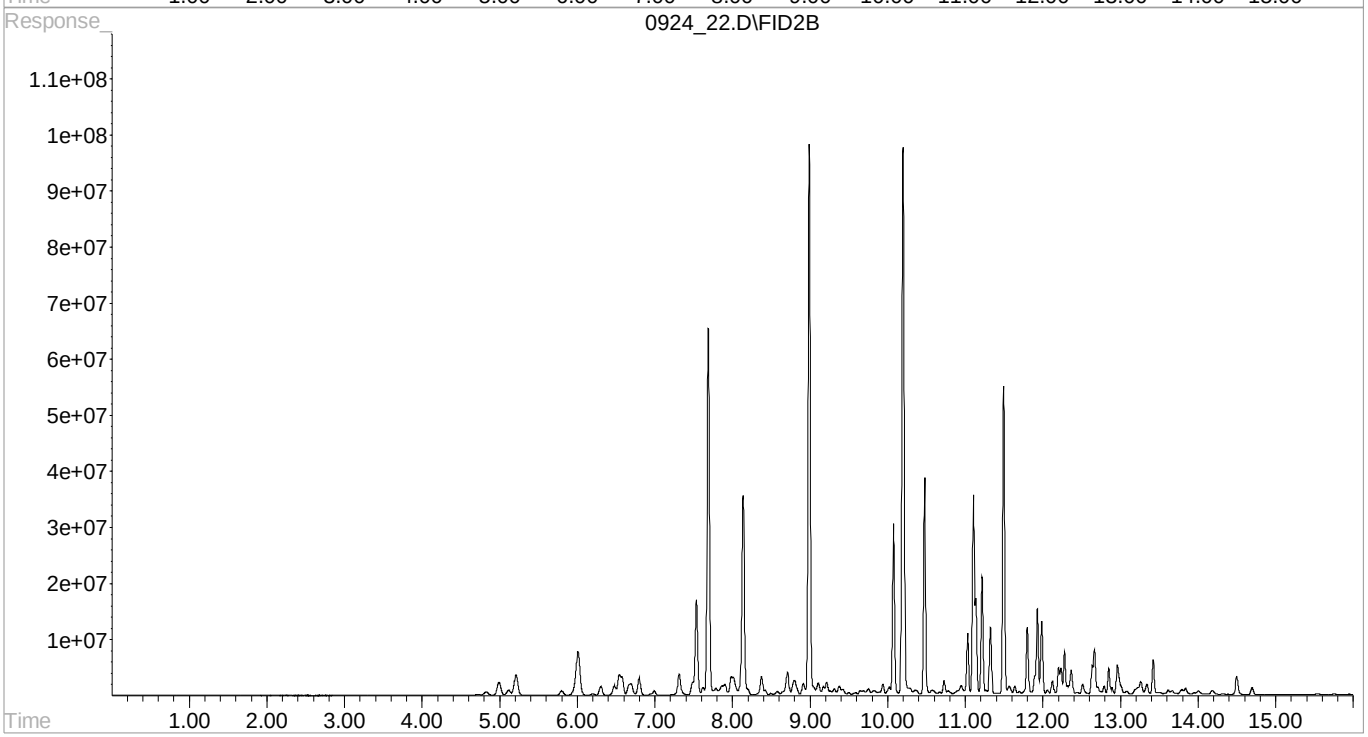
Quantitation Report (QT Reviewed)

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 :

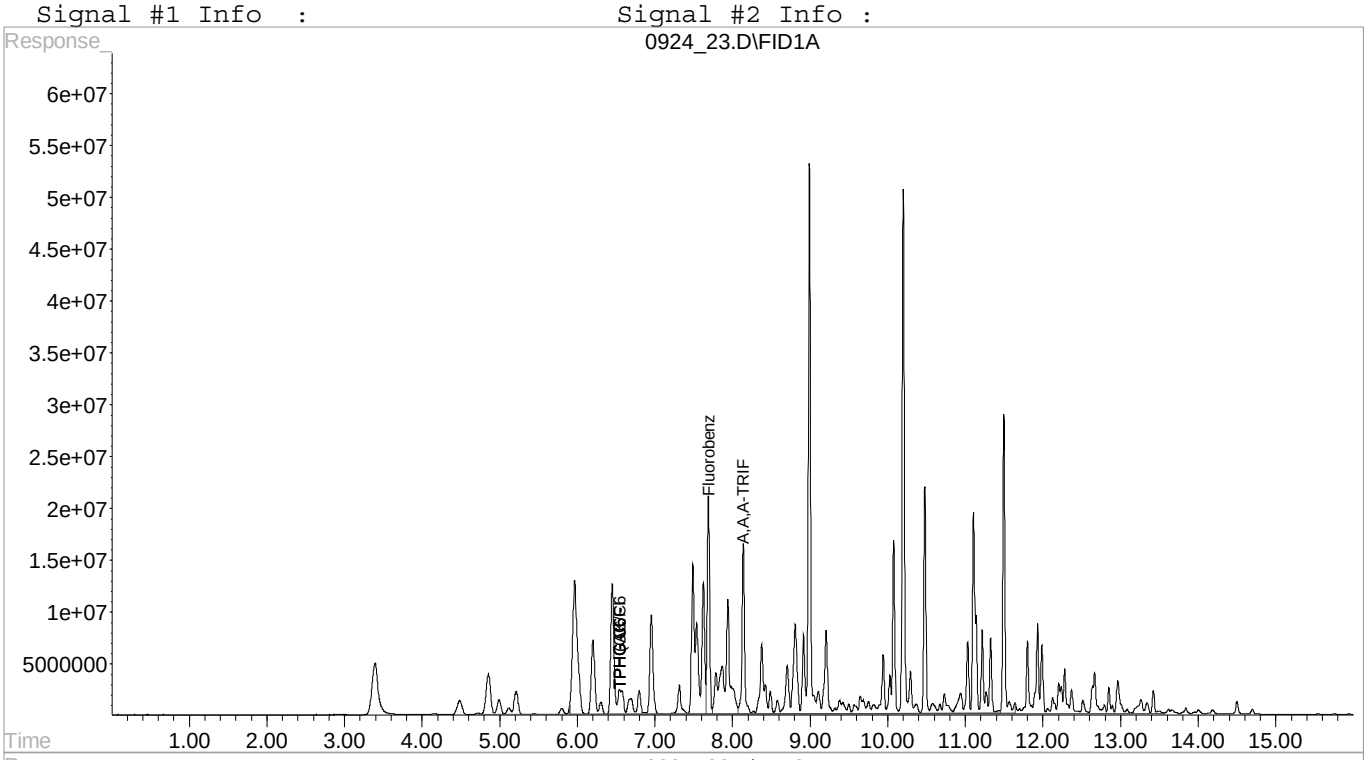
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	443516283	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1430734836	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	393786162	210.0000000	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

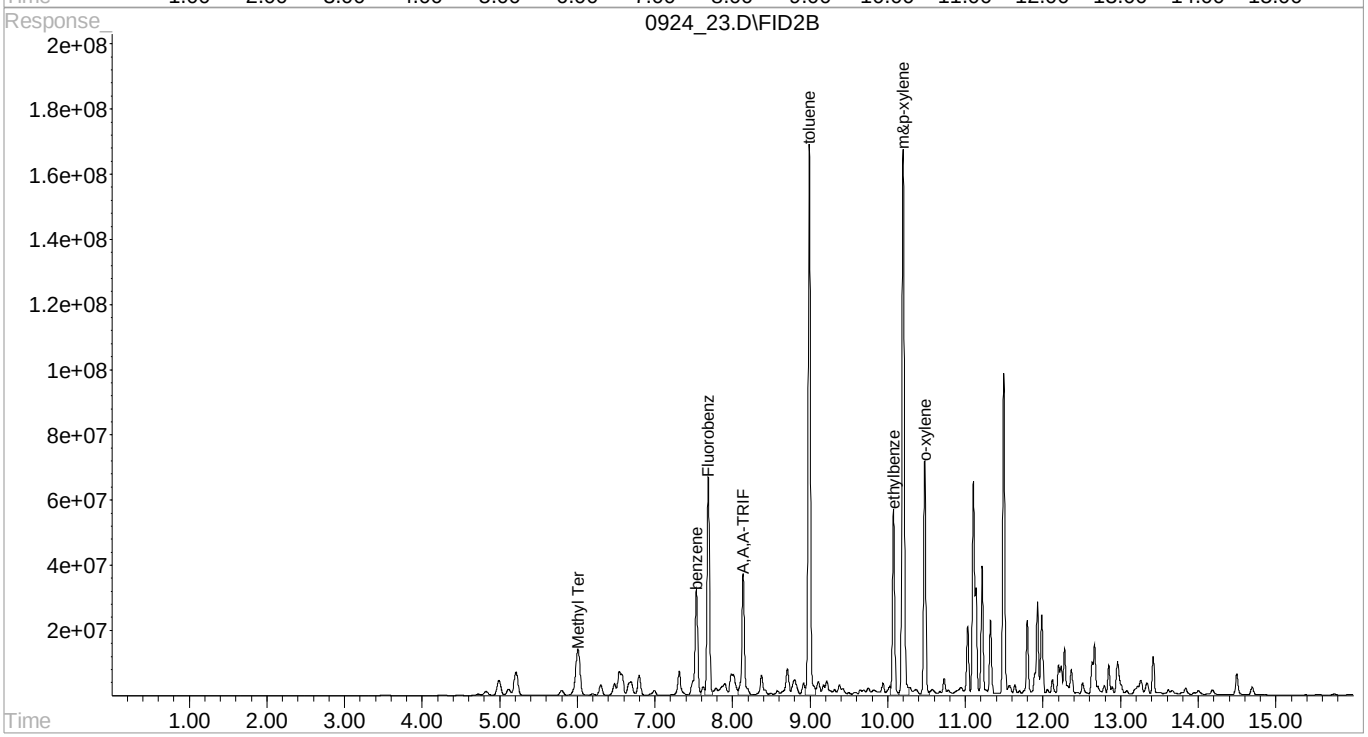
Quantitation Report (Not Reviewed)

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 :
```

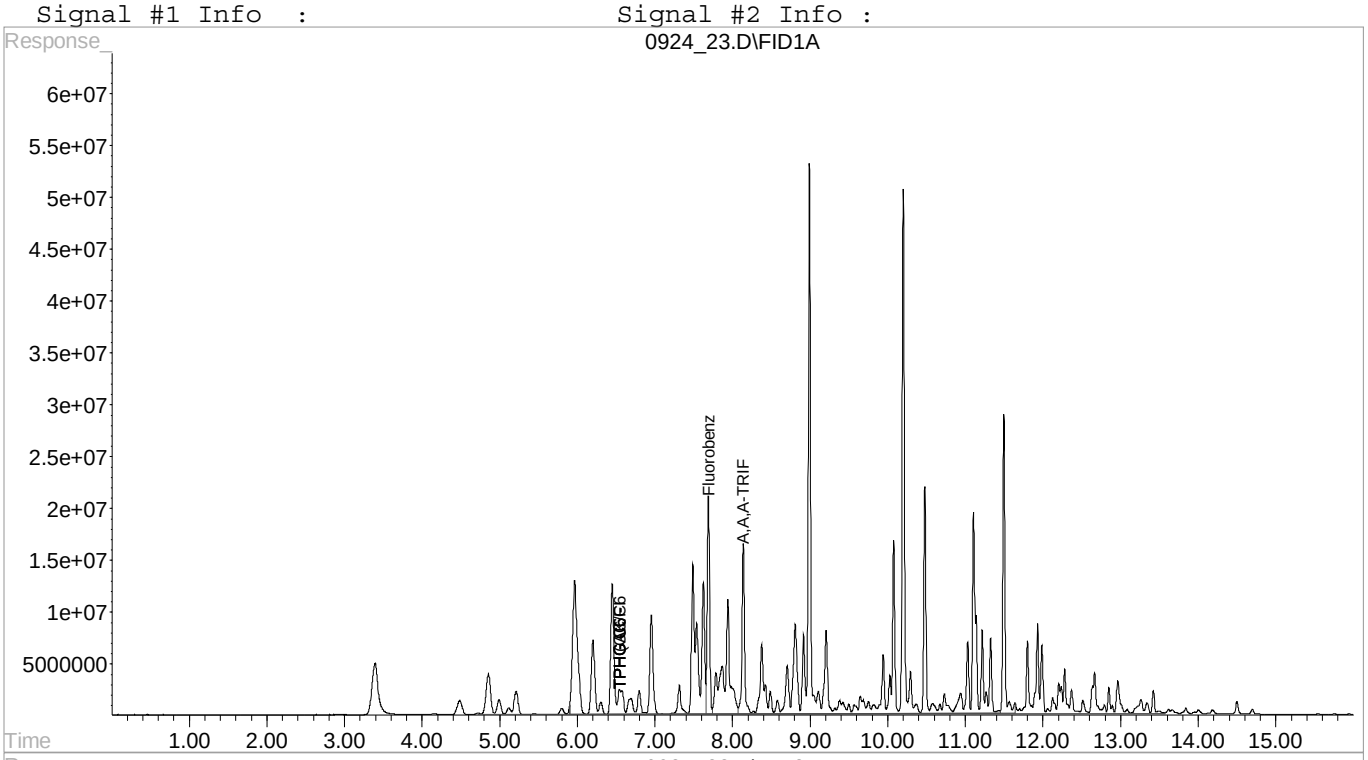
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	443516283	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	393786162	210.0000000	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	105.00%	
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

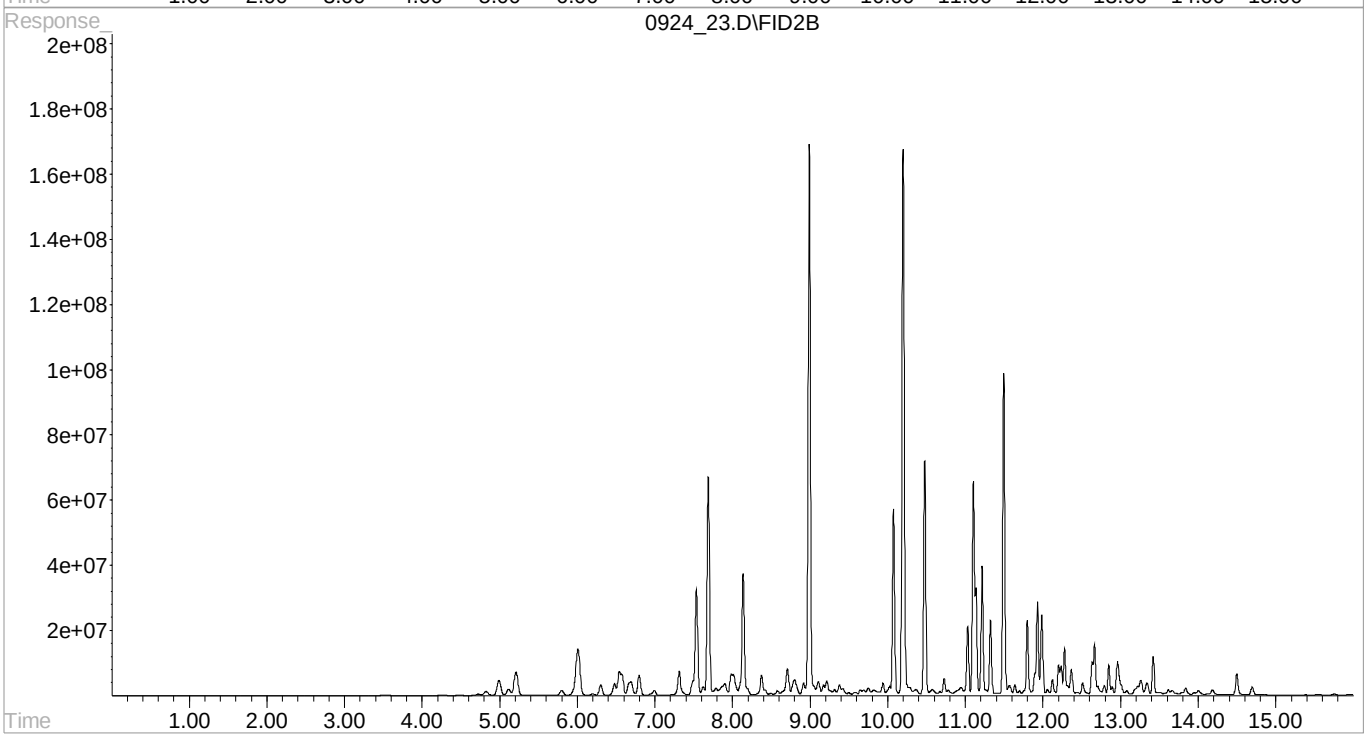
Quantitation Report (QT Reviewed)

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 :

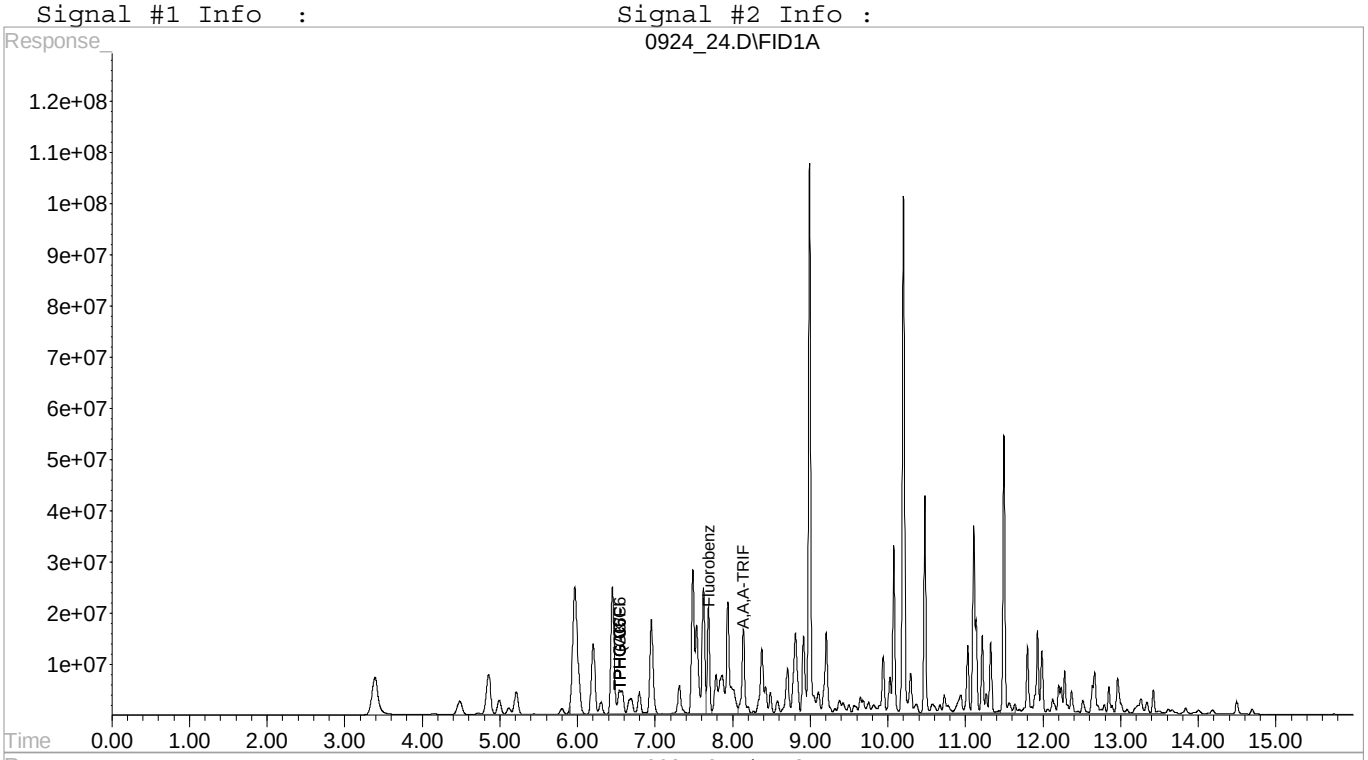
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	7.69	445137522	200.0000000 ppb
8) I Fluorobenzene #2	7.69	1430187631	200.0000000 ppb
System Monitoring Compounds			
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	445969014	236.9621025 ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

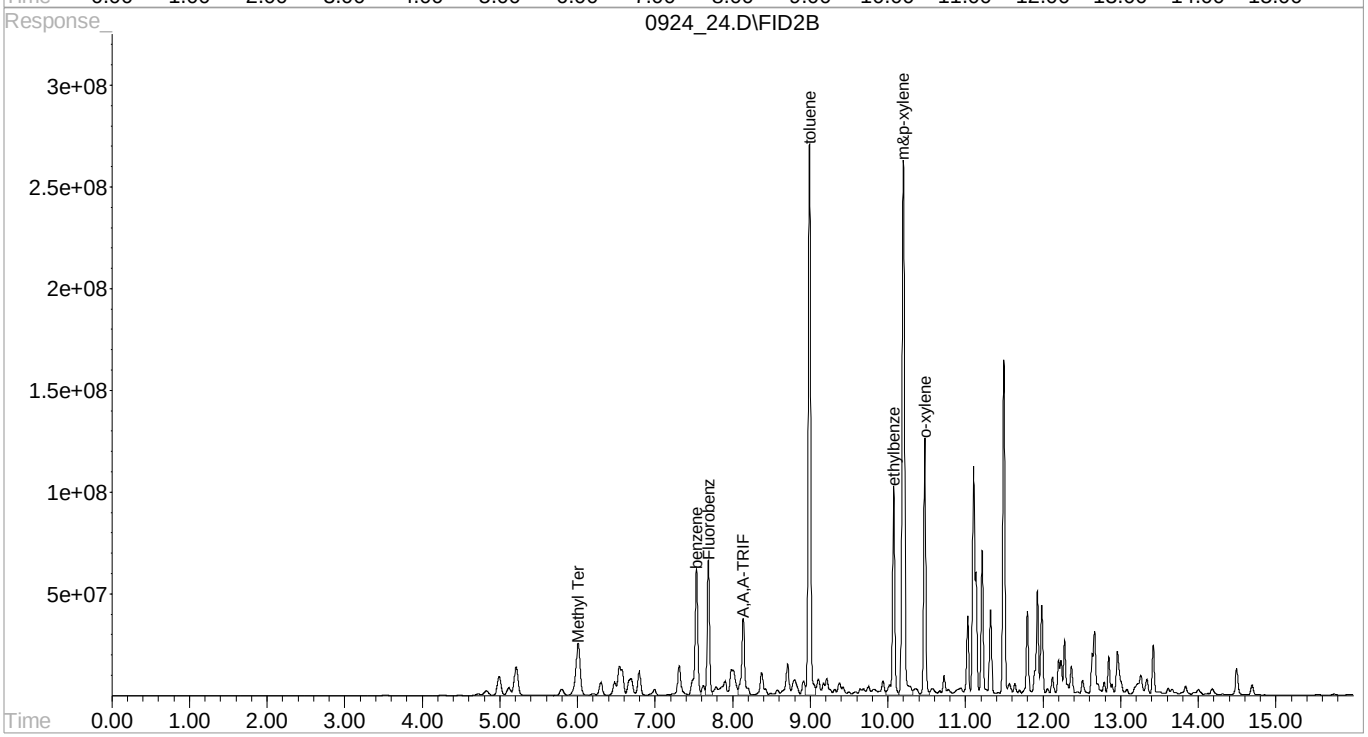
Quantitation Report (Not Reviewed)

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)

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 :

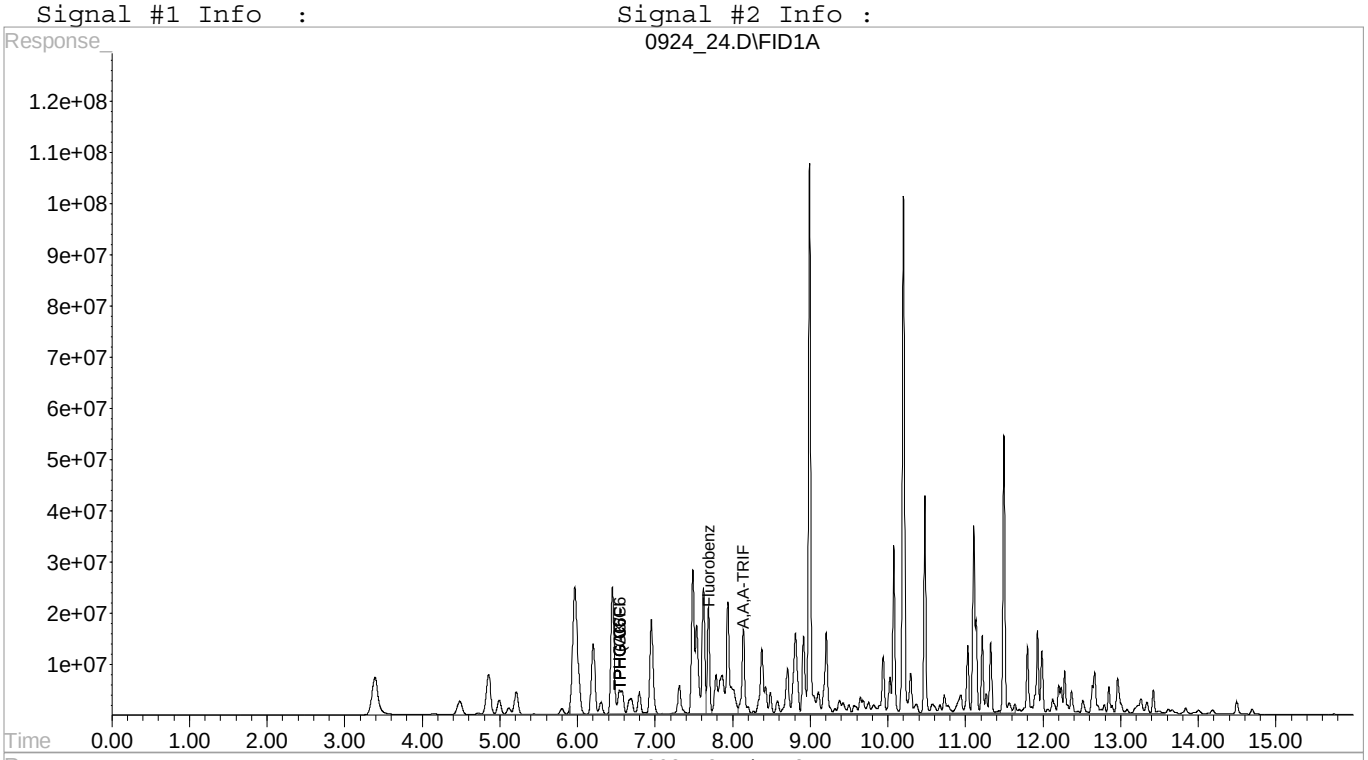
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	445137522	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	445969014	236.9621025	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery =	118.48%	
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

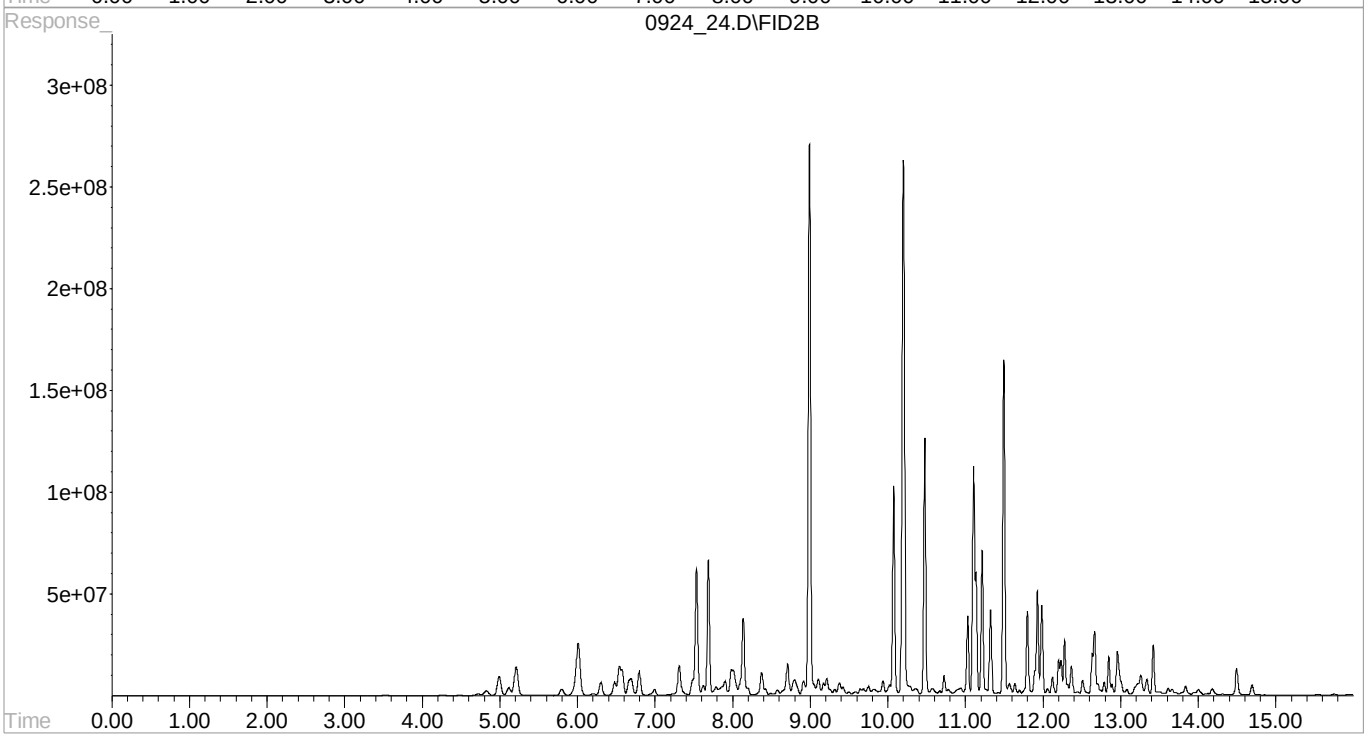
Quantitation Report (QT Reviewed)

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 :

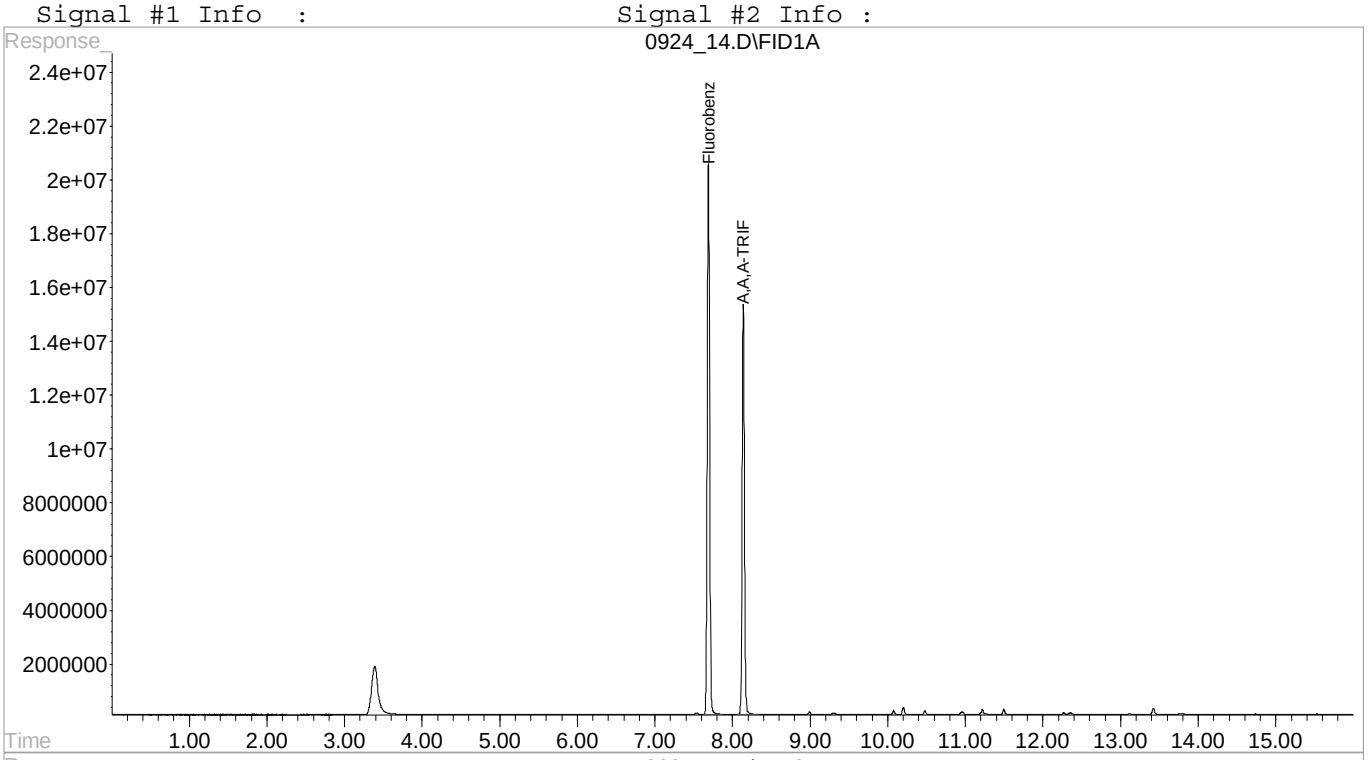
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424713648	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1392016891	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318983753	187.2562989	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

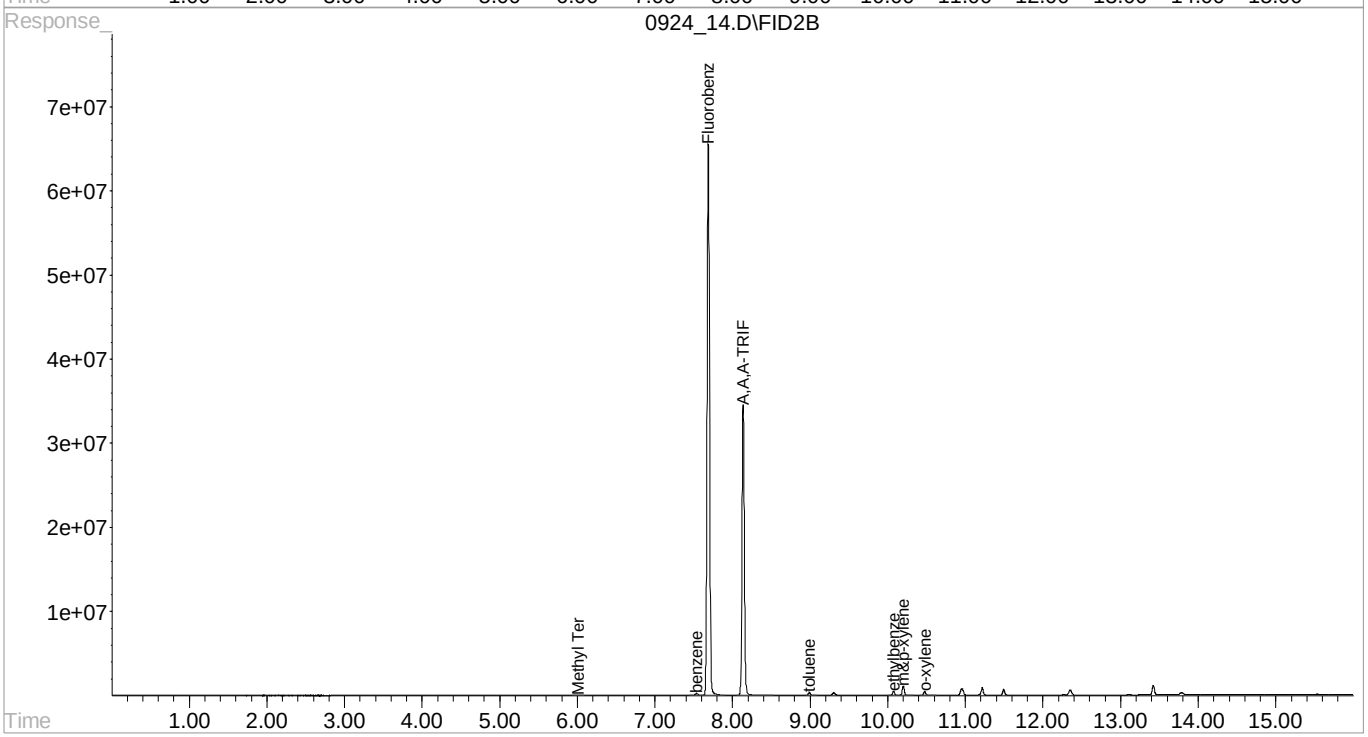
Quantitation Report (QT Reviewed)

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 :

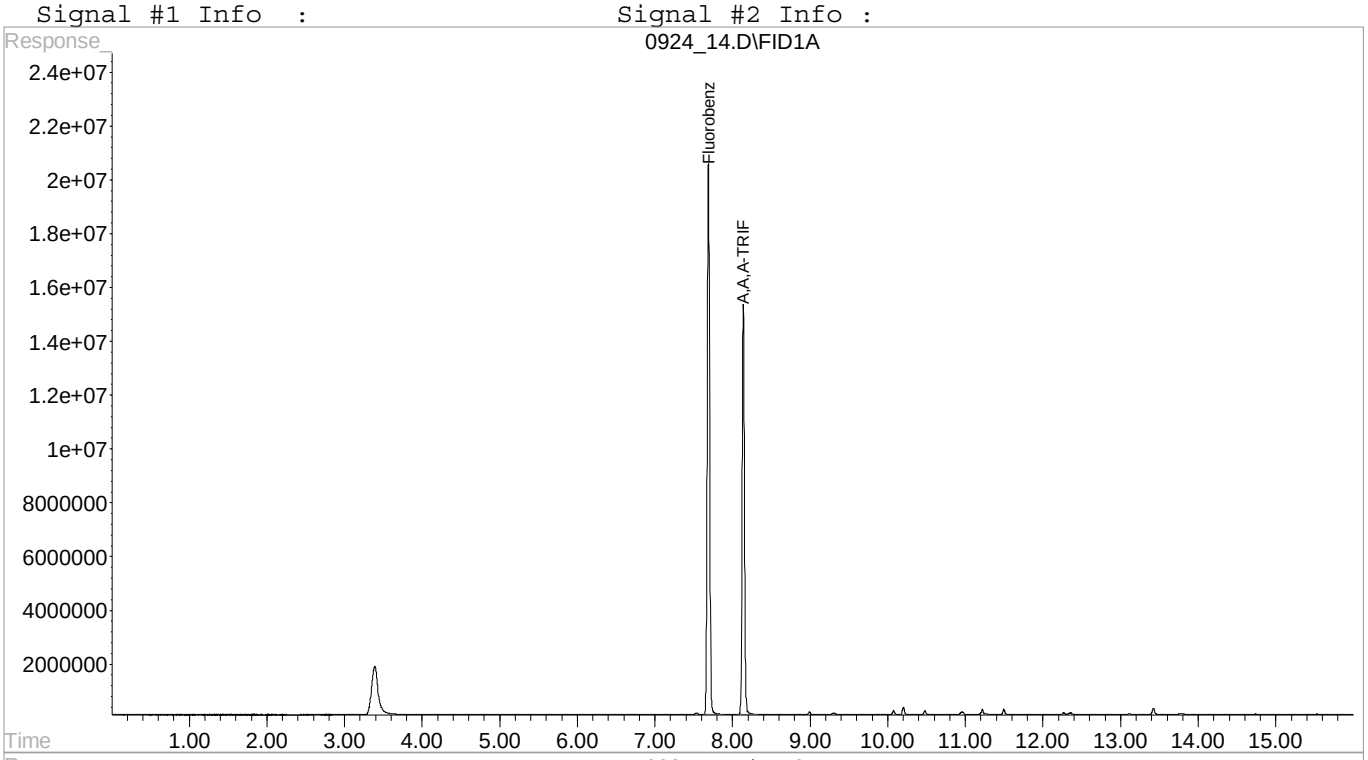
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424713648	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1392016891	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318983753	187.2562989	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

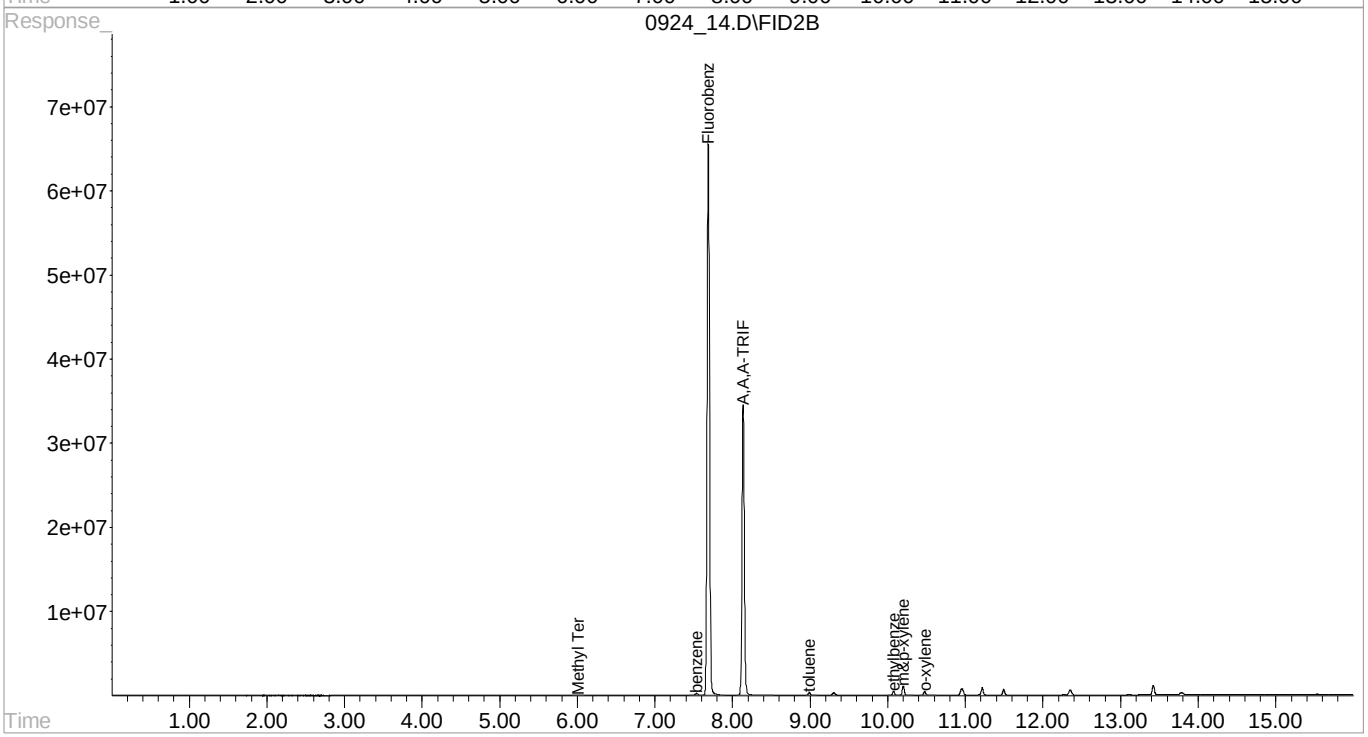
Quantitation Report (Not Reviewed)

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 :

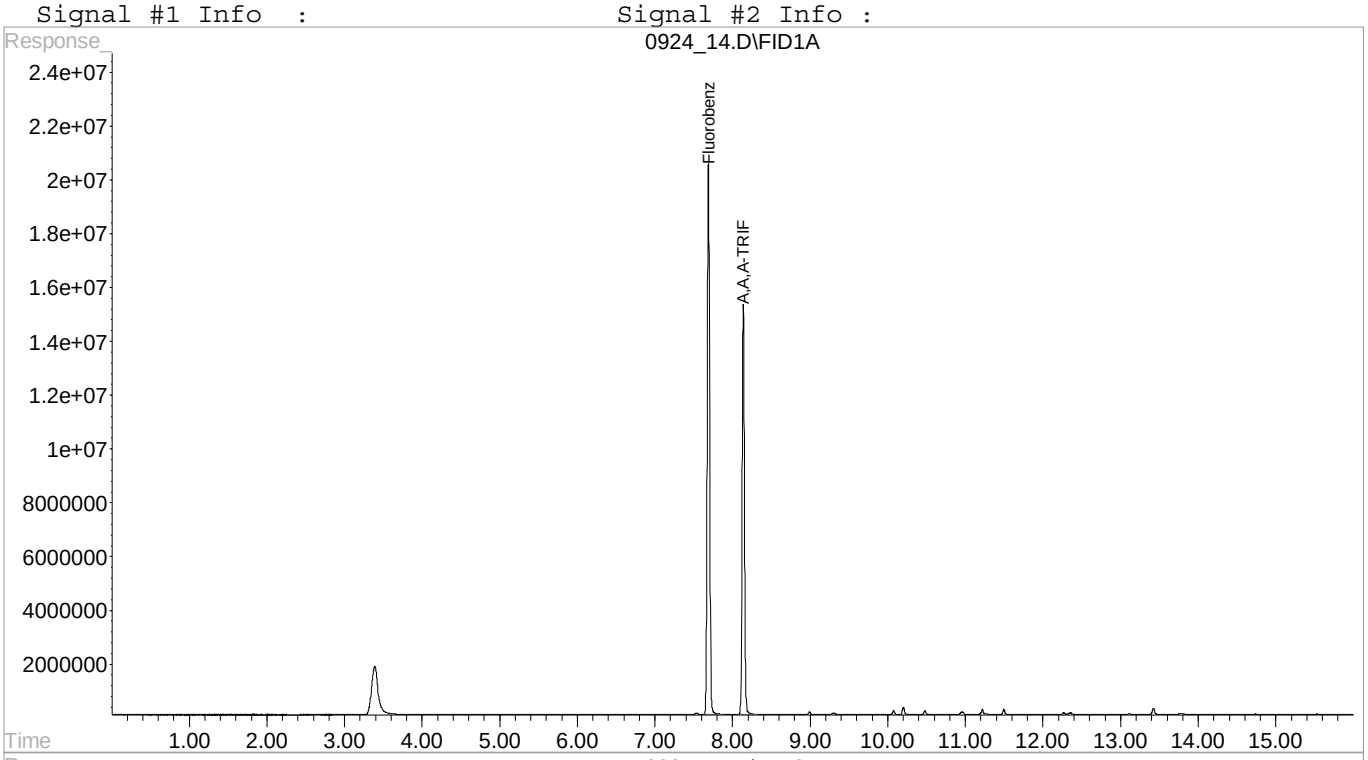
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424713648	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1392016891	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318983753	187.2562989	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

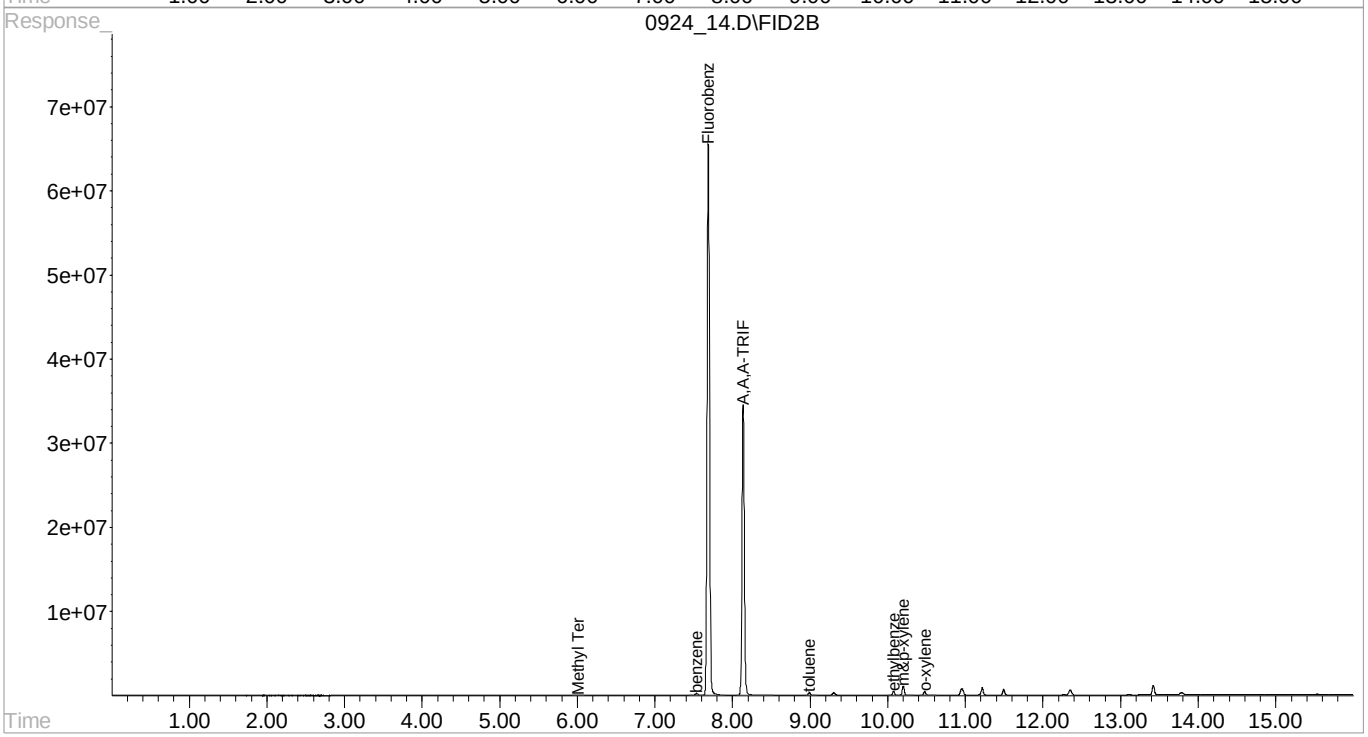
Quantitation Report (QT Reviewed)

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 :

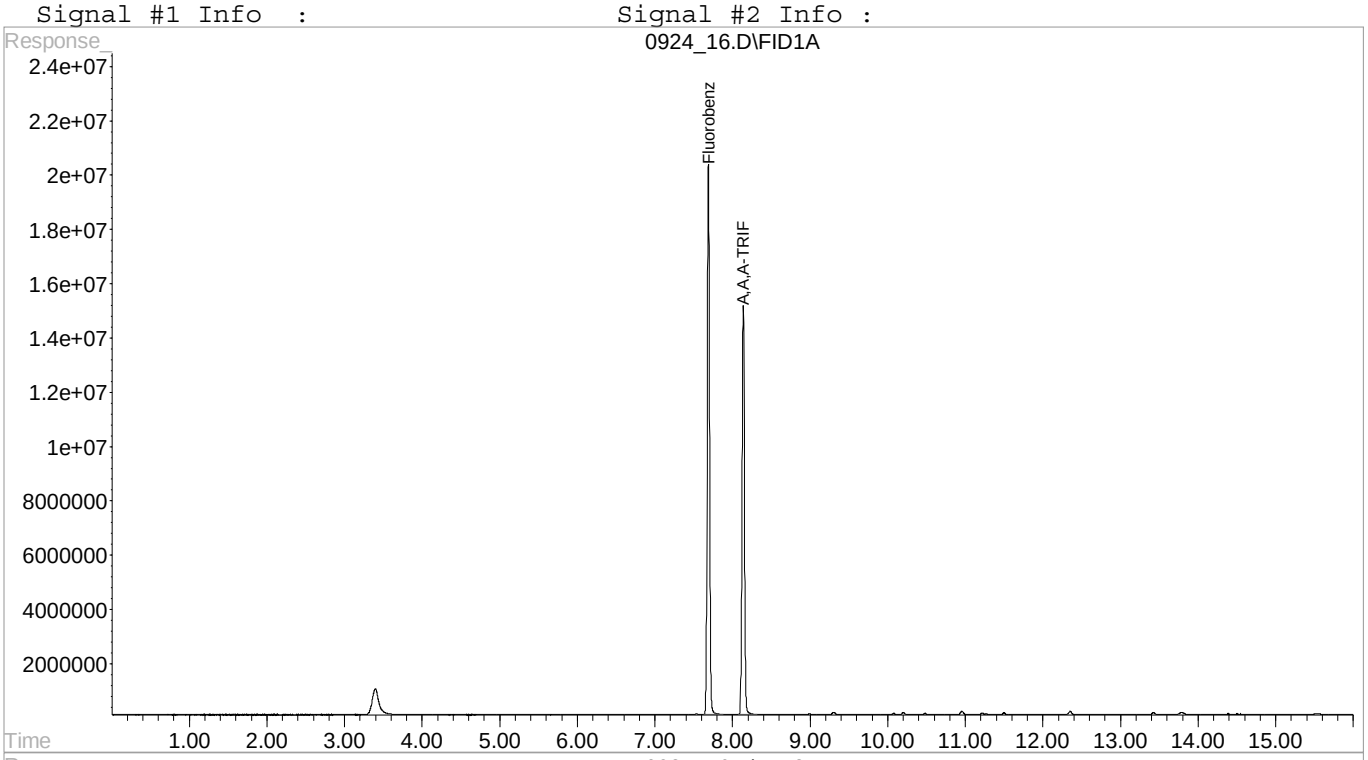
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	420489894	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1376804954	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	315575668	187.1164790	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

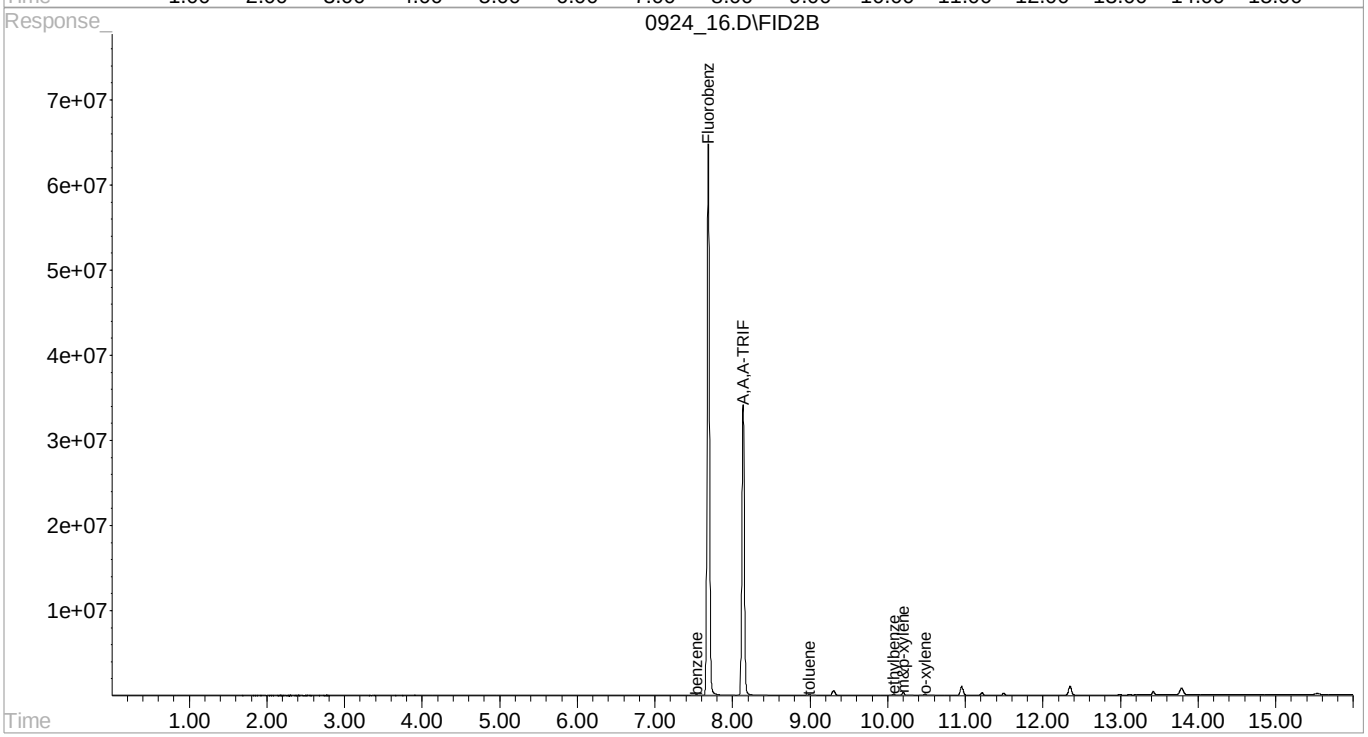
Quantitation Report (QT Reviewed)

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 :

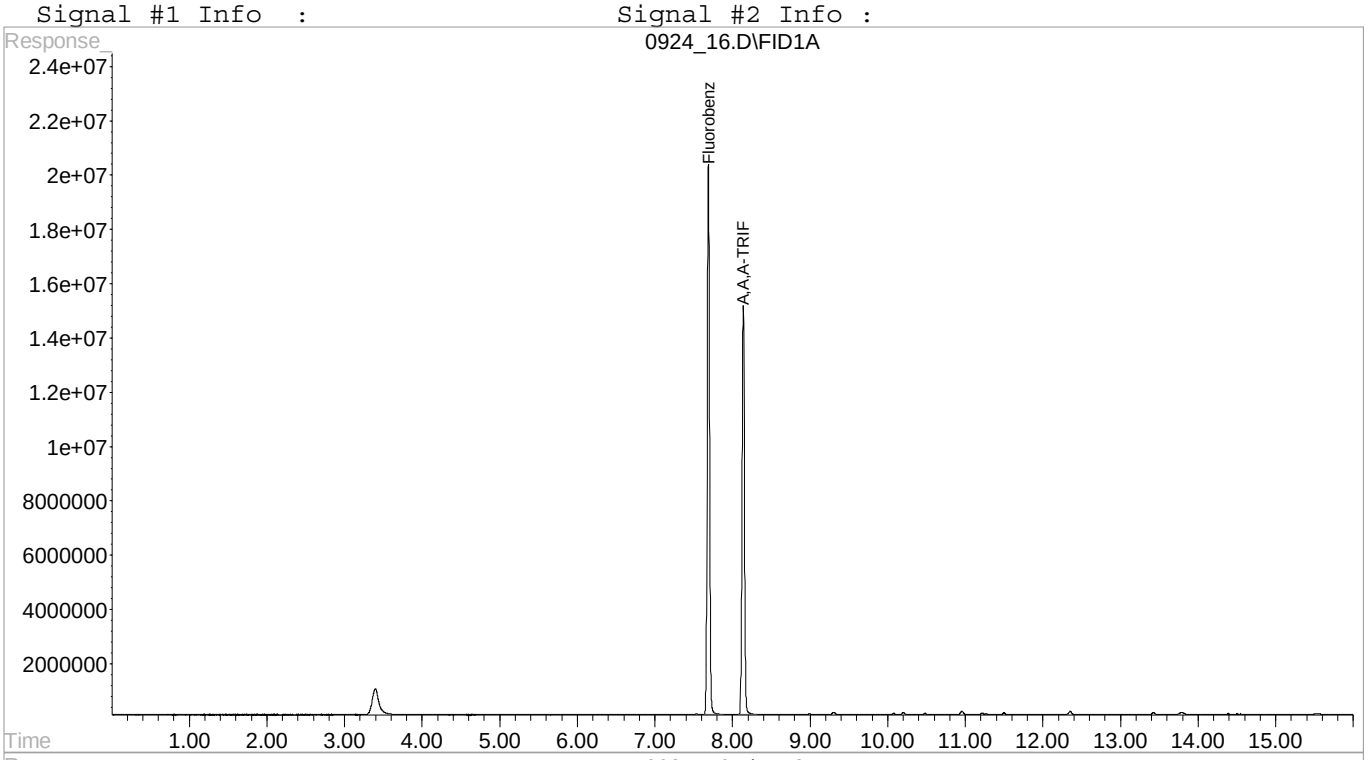
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	420489894	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1376804954	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	315575668	187.1164790	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

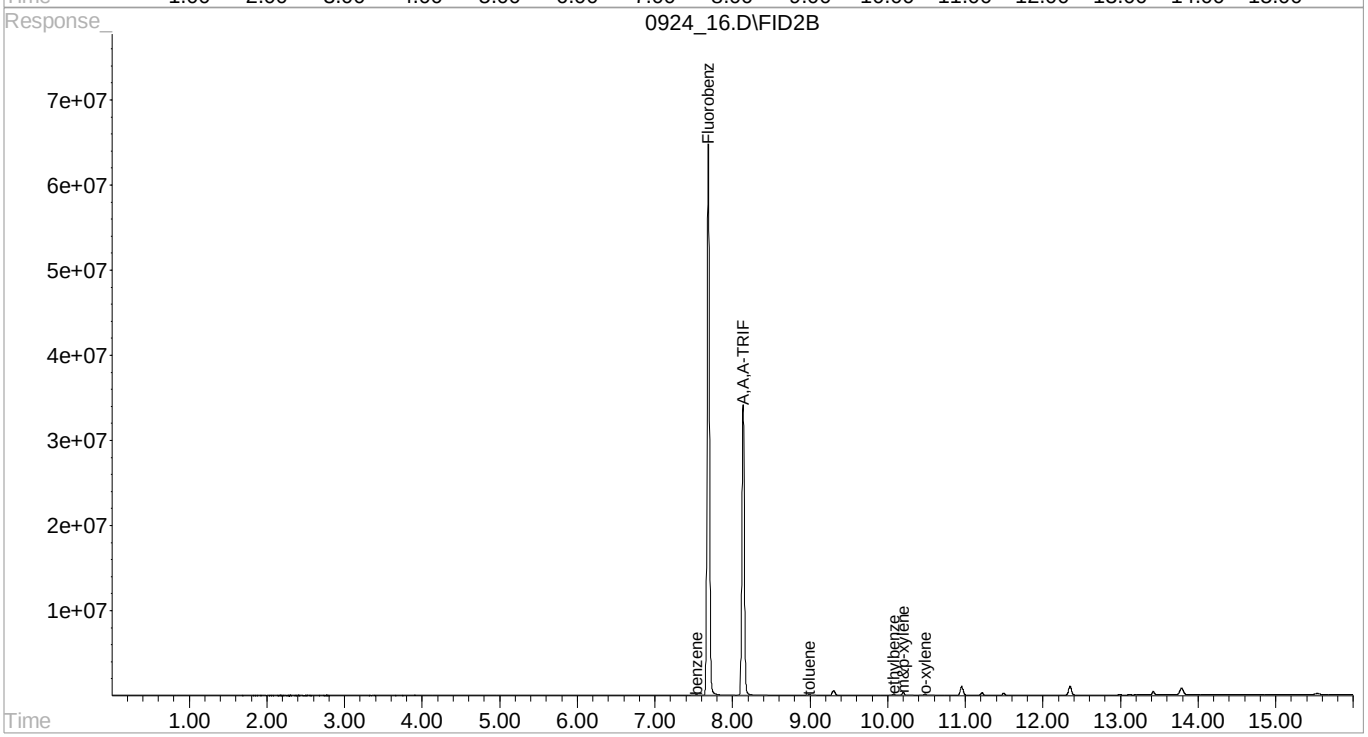
Quantitation Report (Not Reviewed)

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 :

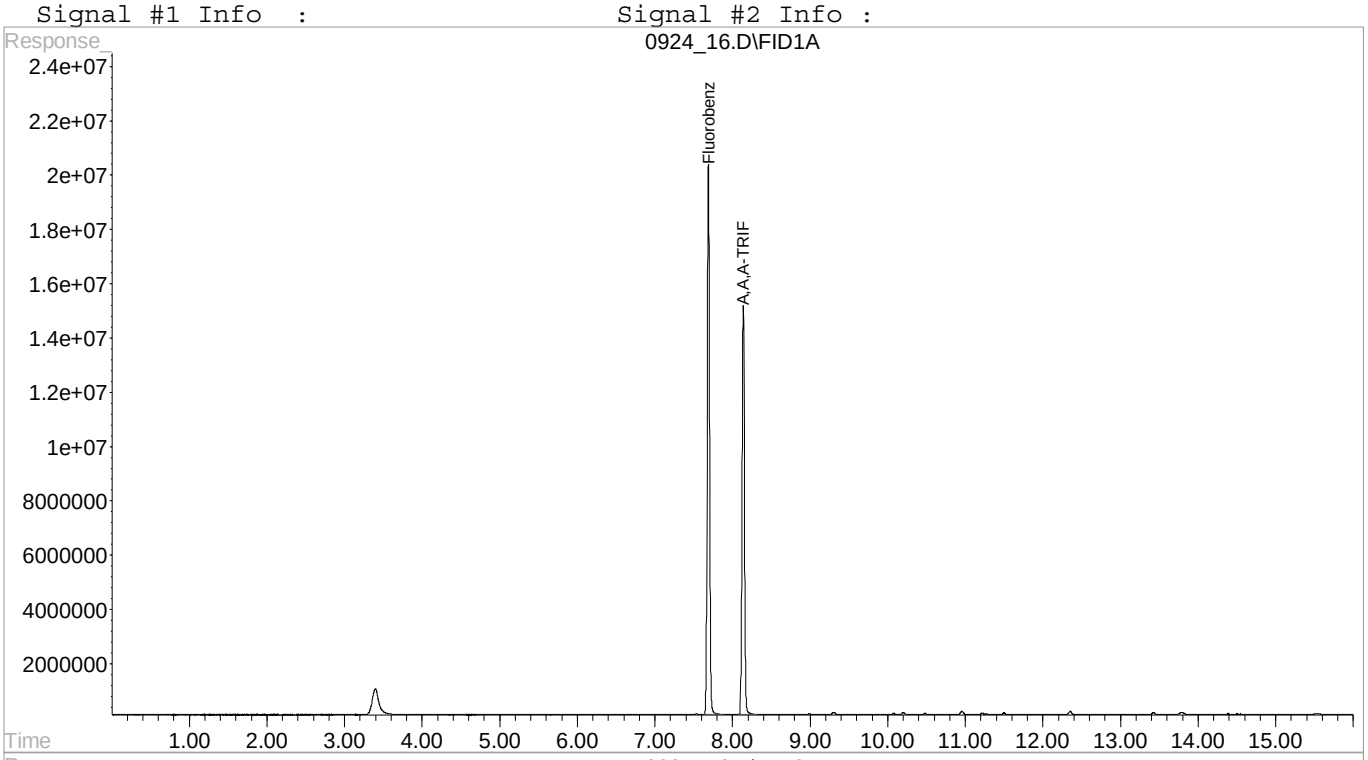
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	420489894	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1376804954	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	315575668	187.1164790	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

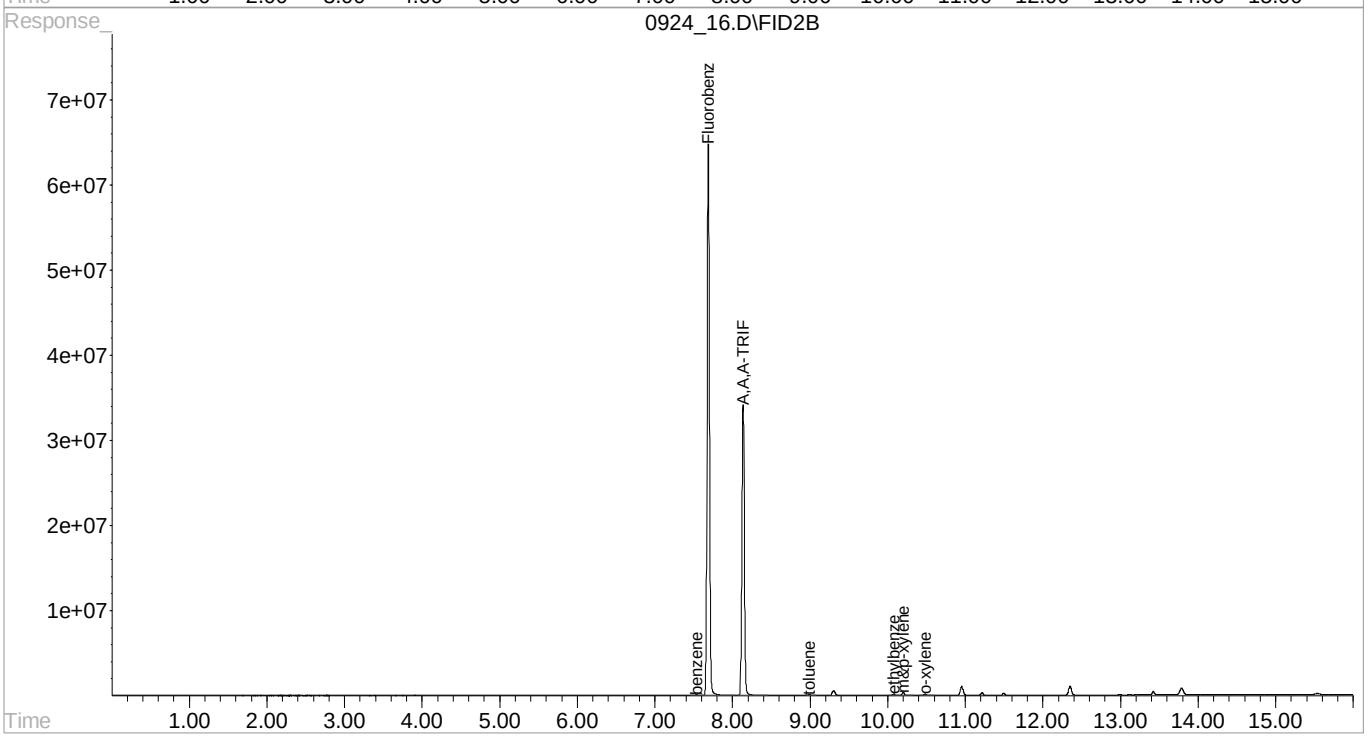
Quantitation Report (QT Reviewed)

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 :

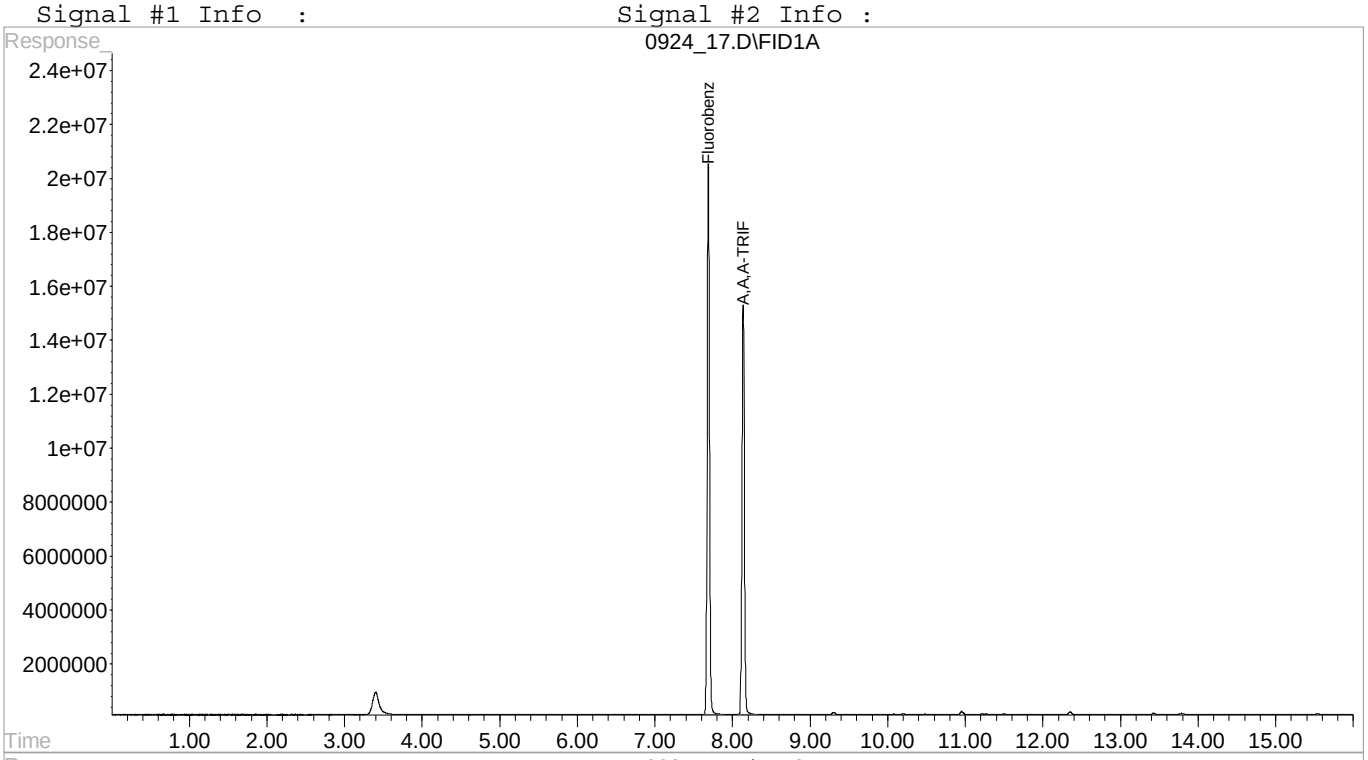
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424278084	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1386132636	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318157047	186.9627279	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

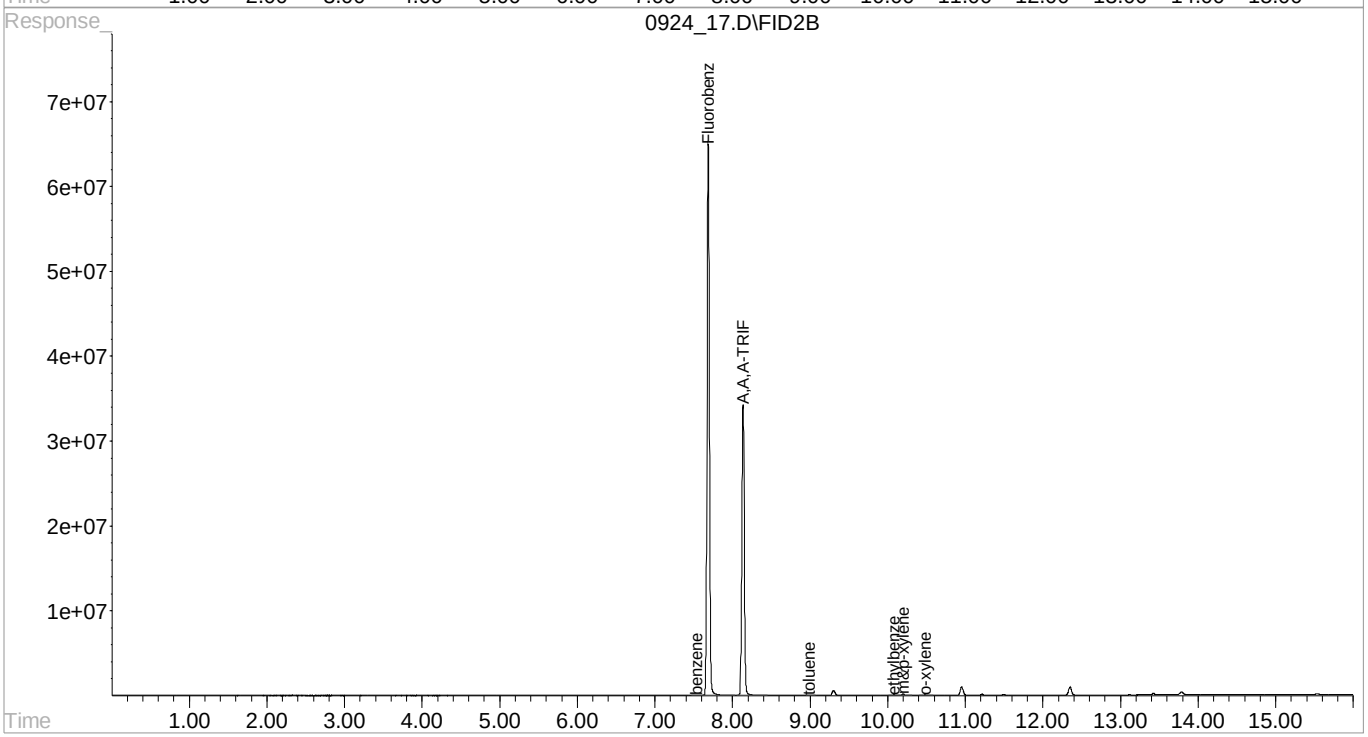
Quantitation Report (QT Reviewed)

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 :

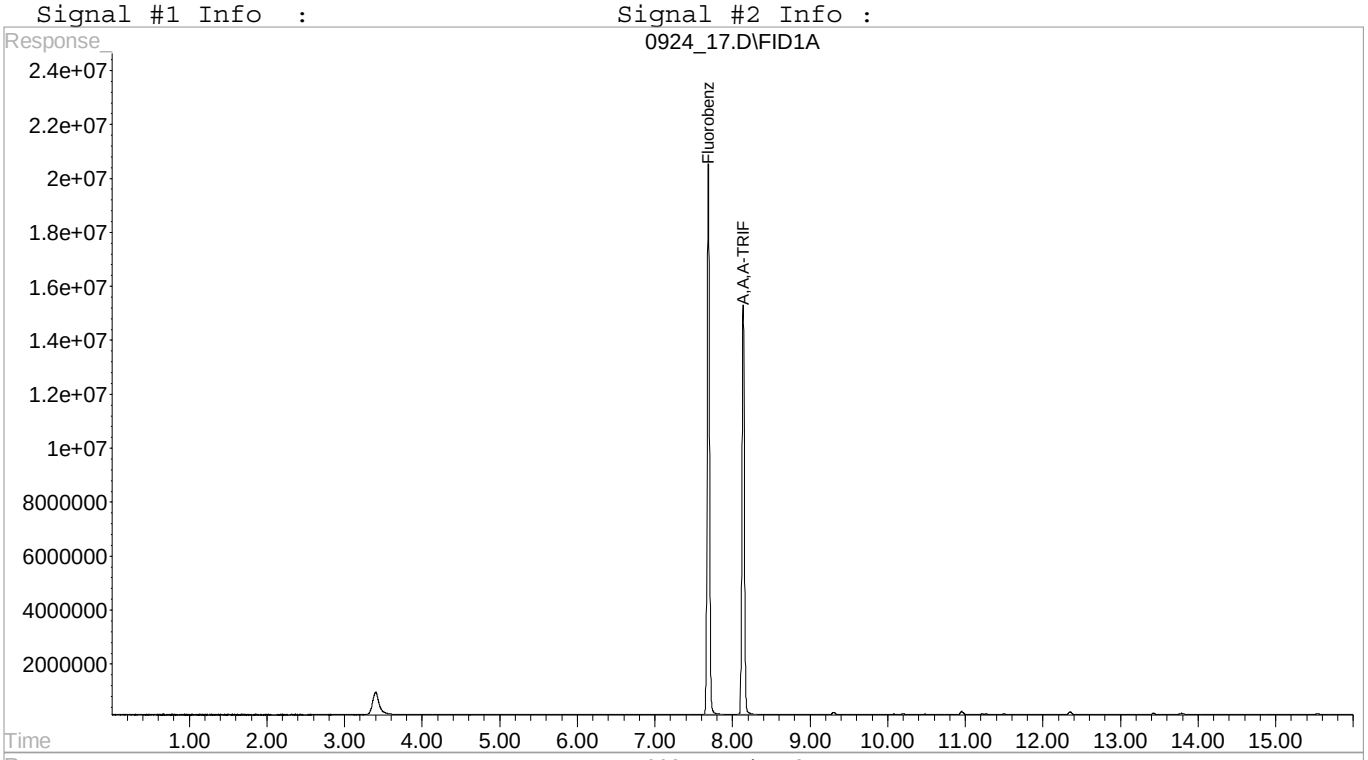
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424278084	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1386132636	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318157047	186.9627279	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

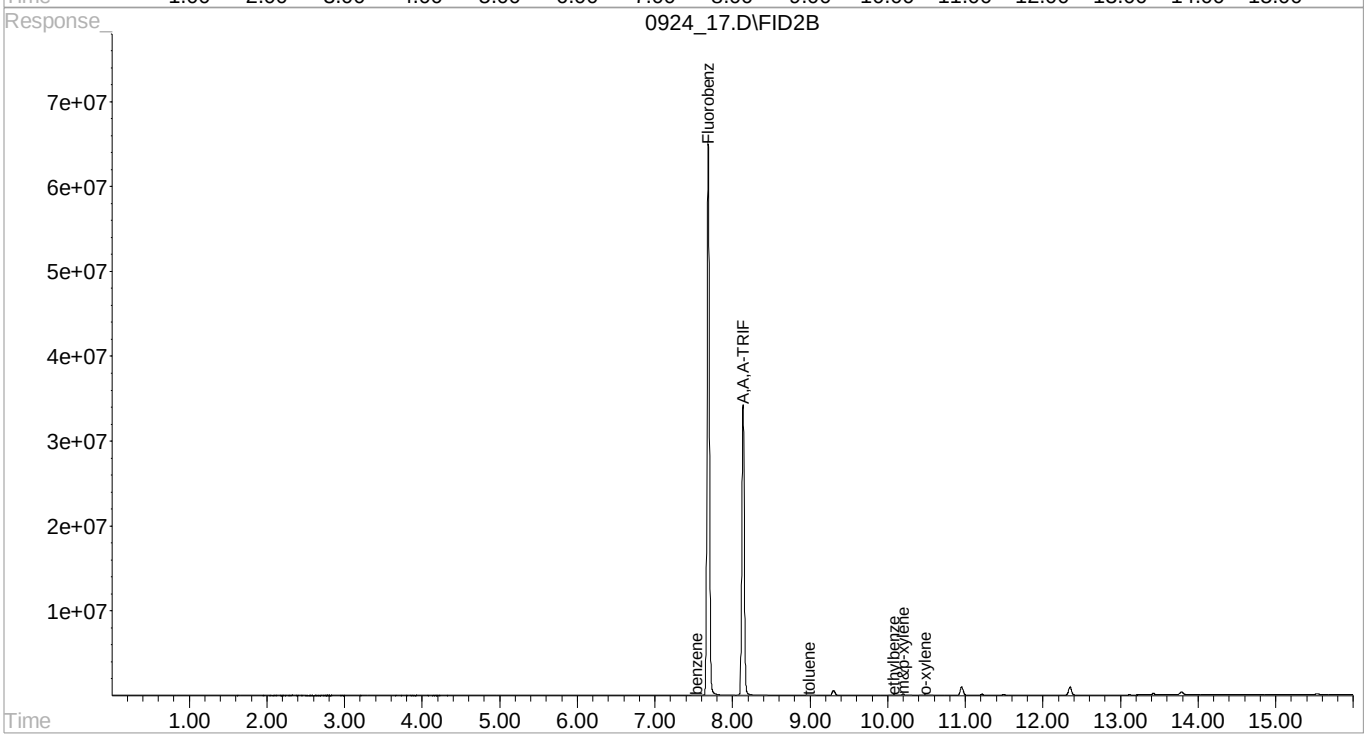
Quantitation Report (Not Reviewed)

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)

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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 :
```

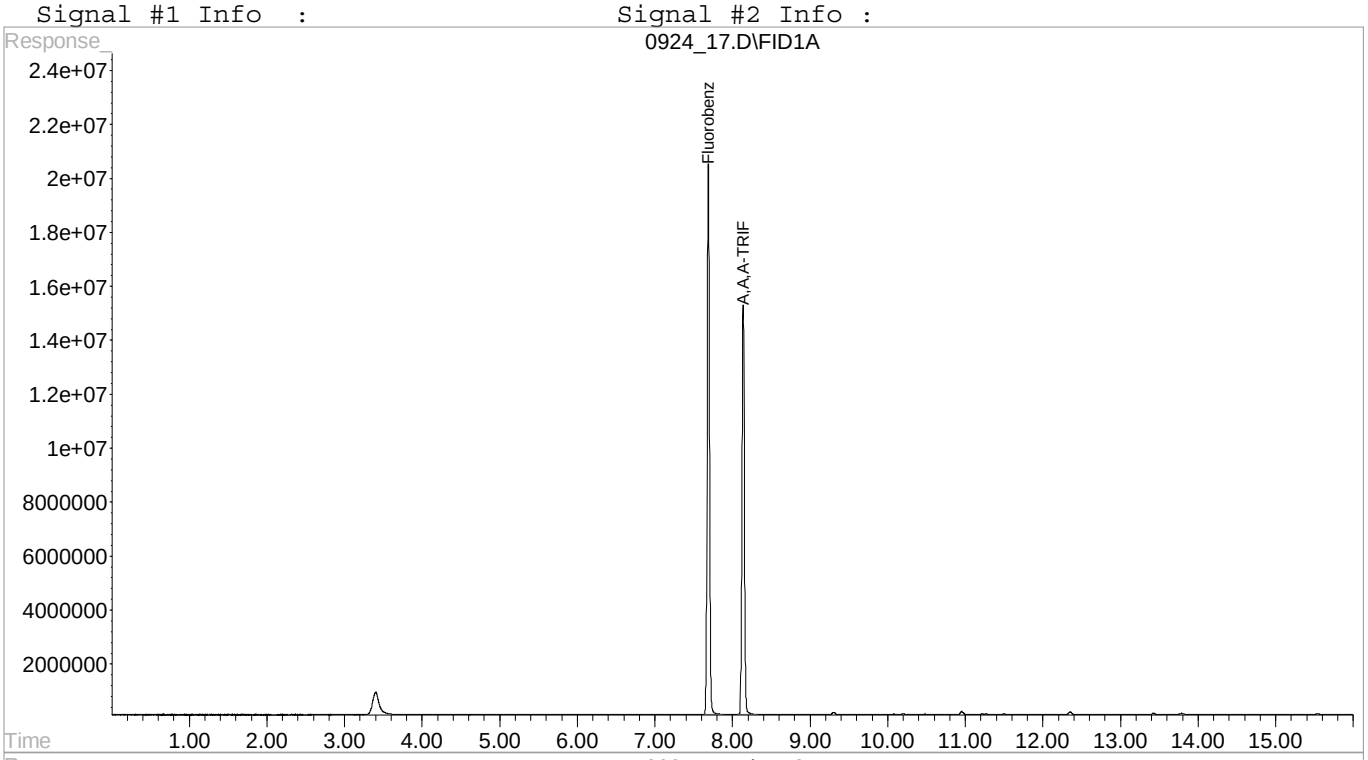
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	424278084	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1386132636	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	318157047	186.9627279	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

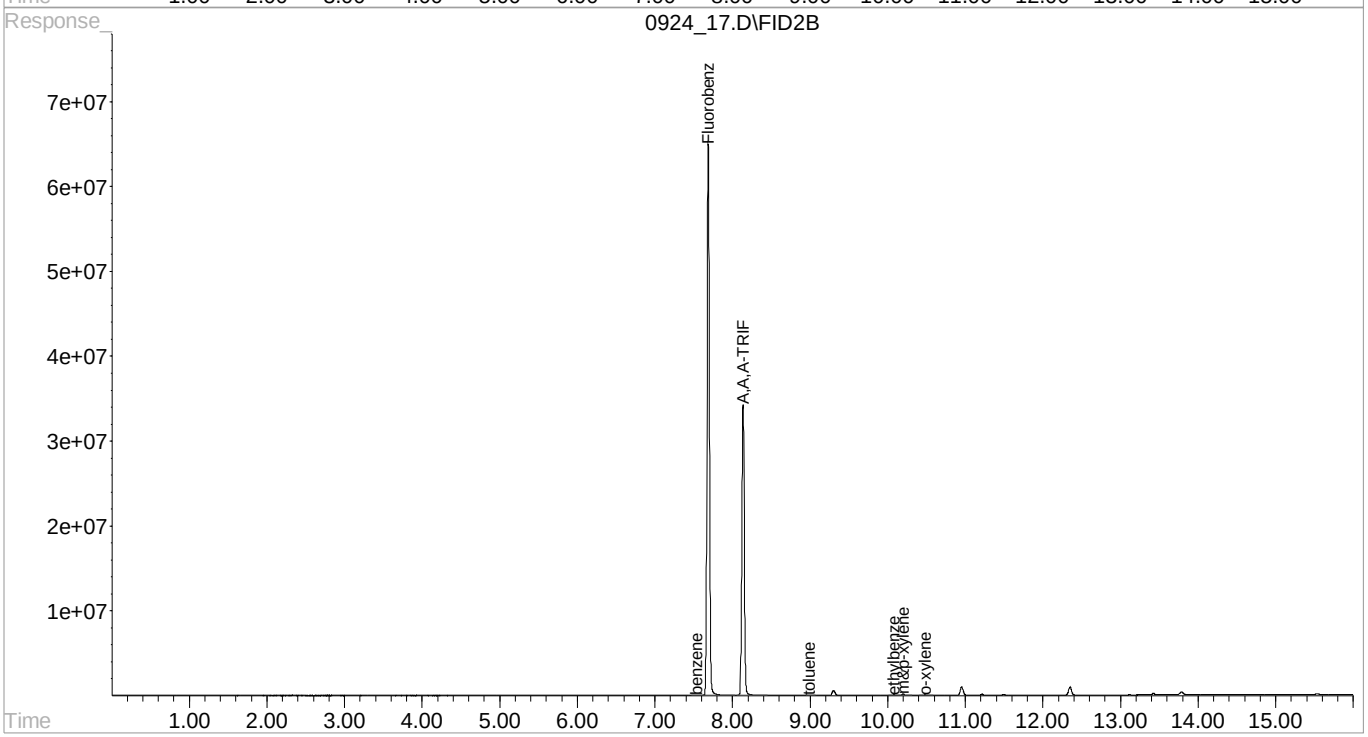
Quantitation Report (QT Reviewed)

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 :

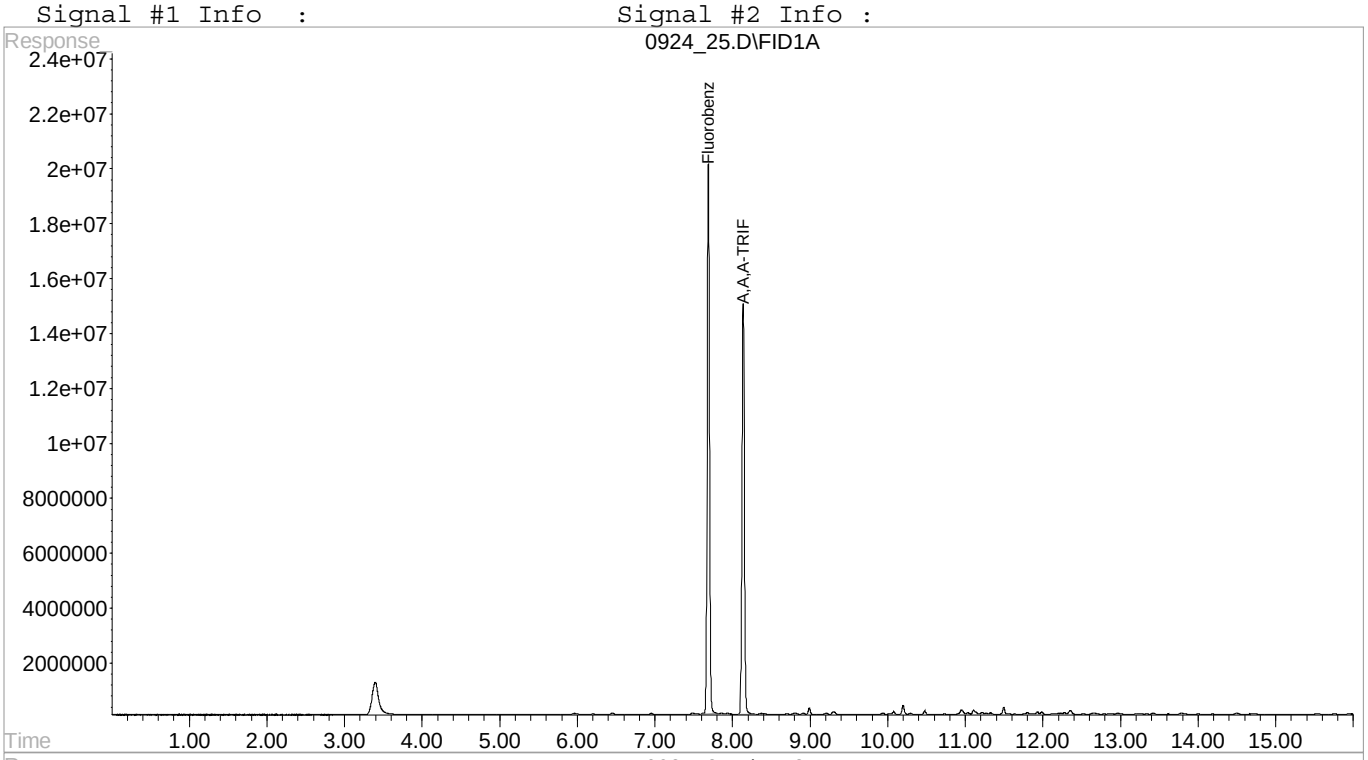
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	415053695	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1370103202	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	312846351	187.9277427	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

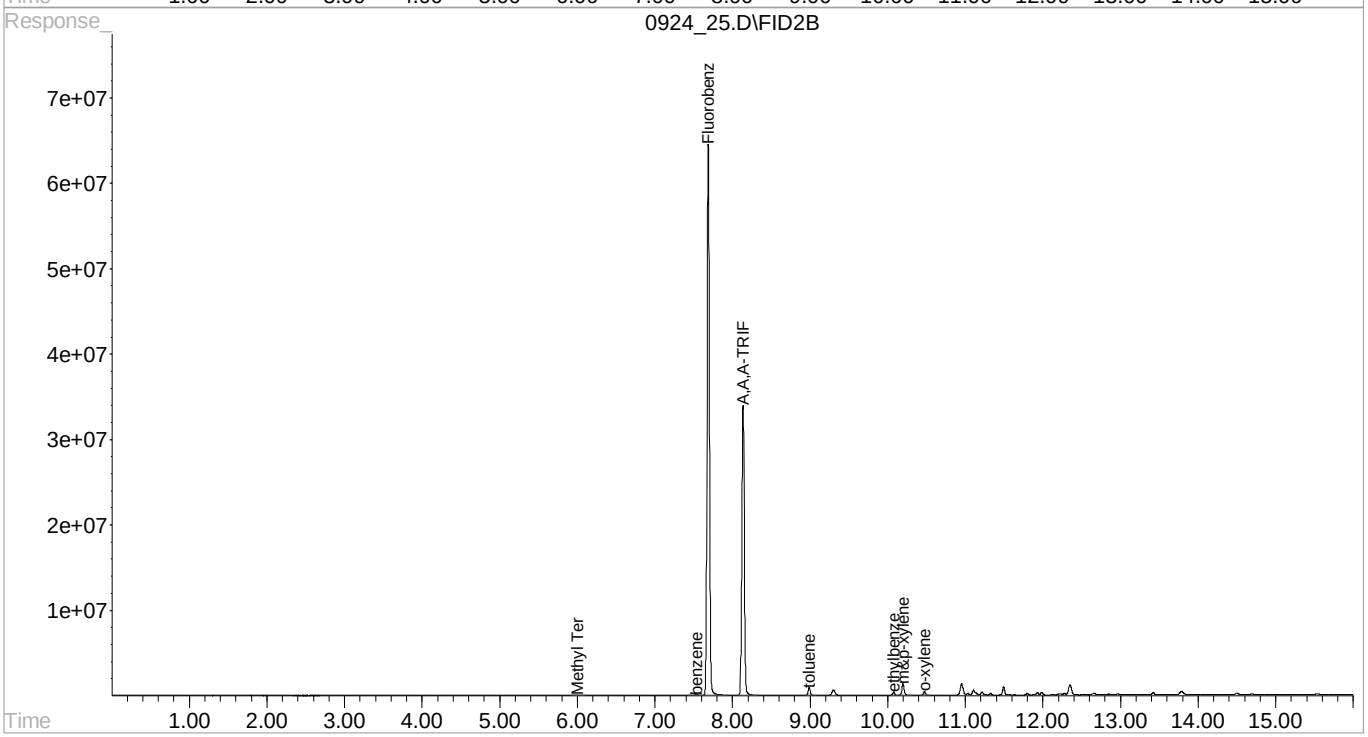
Quantitation Report (QT Reviewed)

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 :

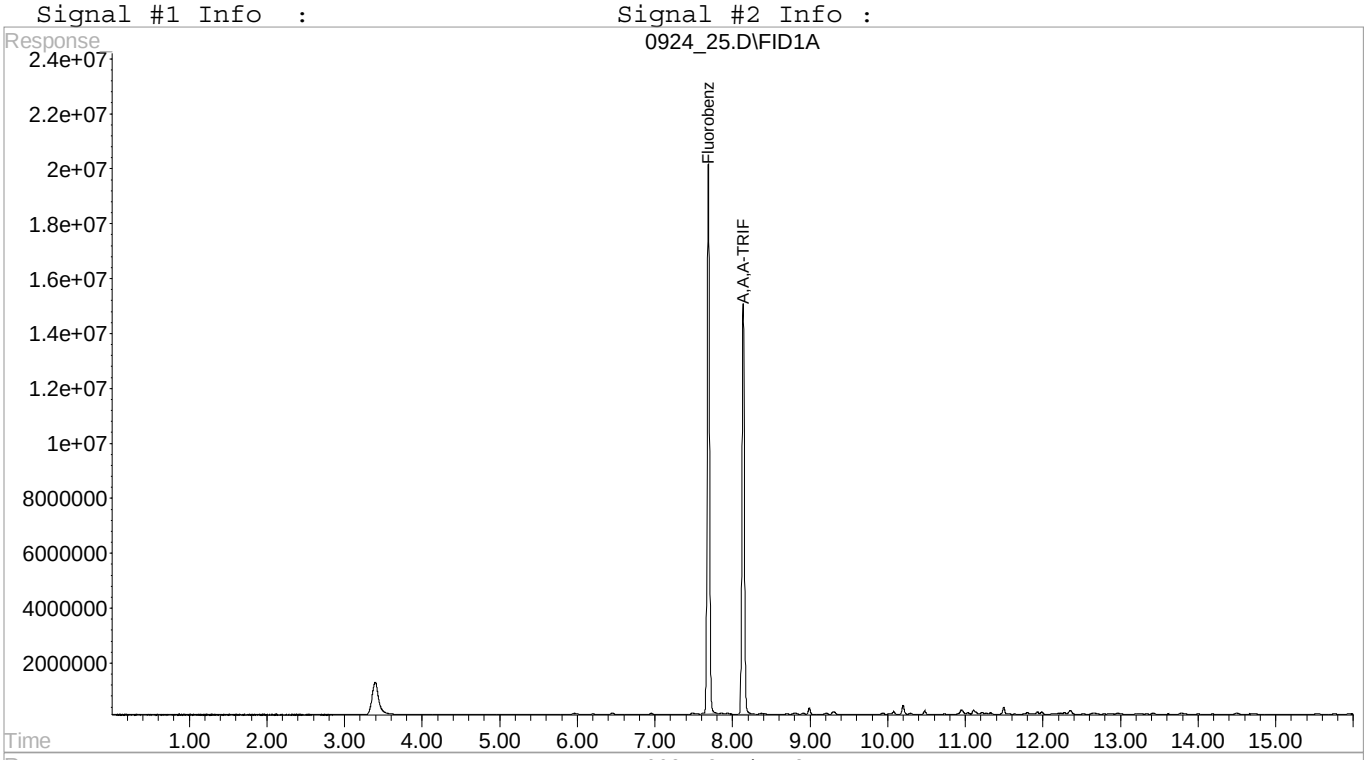
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	7.69	415053695	200.0000000	ppb
8) I Fluorobenzene #2	7.69	1370103202	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	8.14	312846351	187.9277427	ppb
Spiked Amount 200.000 Range 70 - 130		Recovery = 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

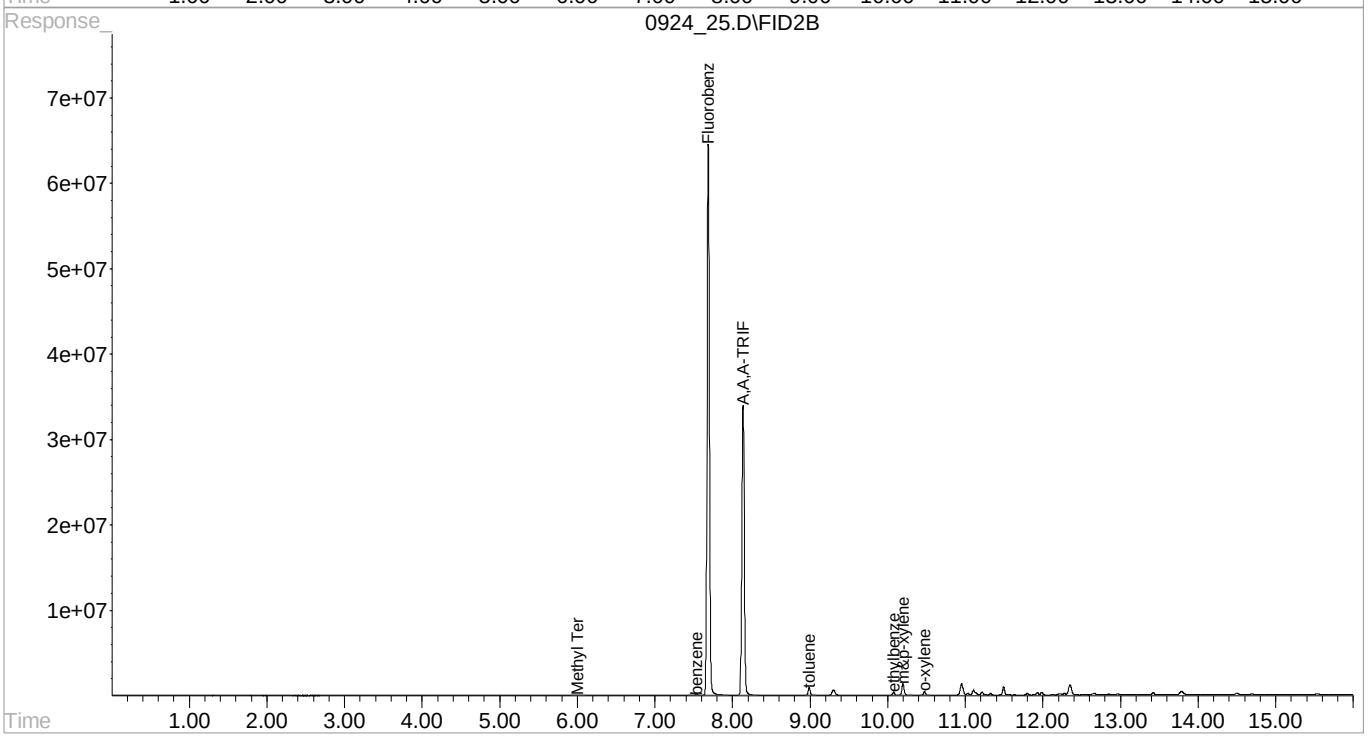
Quantitation Report (Not Reviewed)

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				
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Spiked Amount 200.000 Range 70 - 130		Recovery = 93.96%		
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Spiked Amount 200.000 Range 54 - 144		Recovery = 100.95%		
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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
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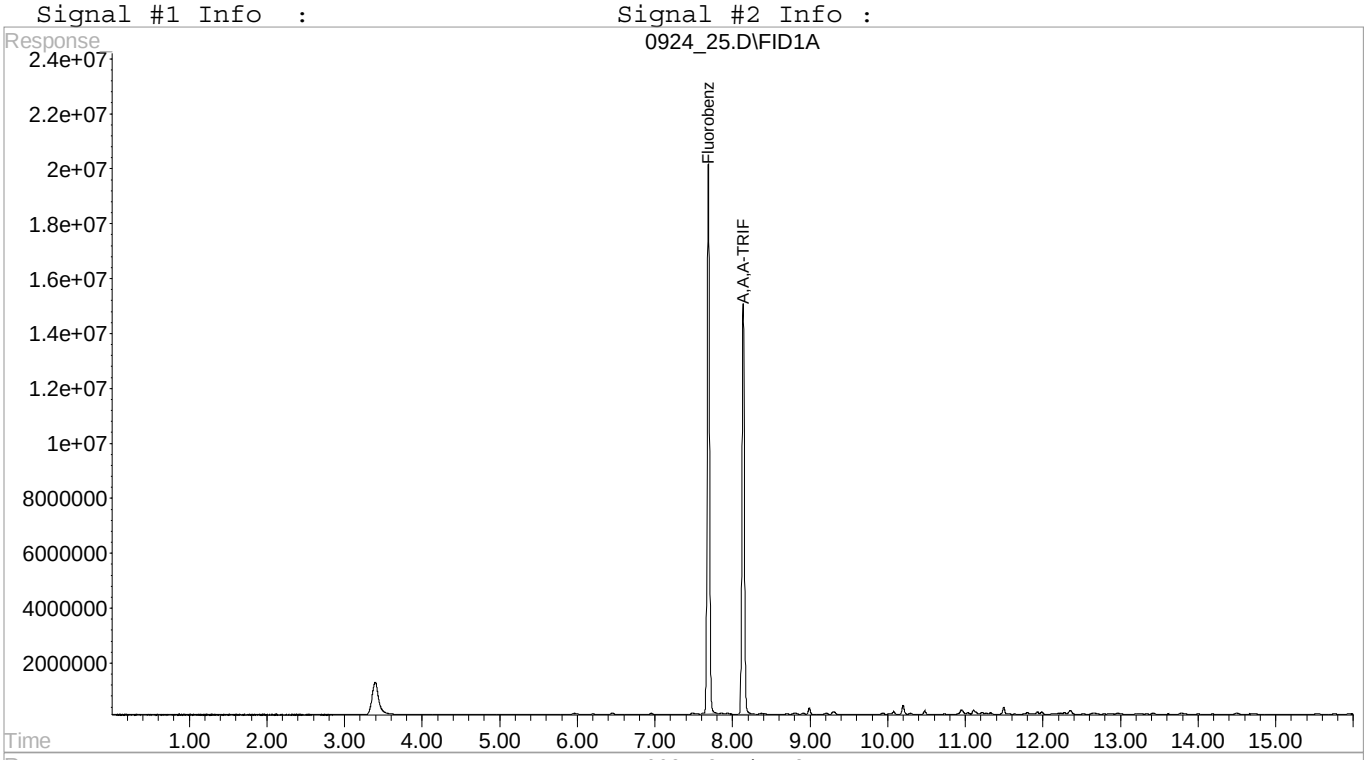
14) T,M m&p-xylene	10.20	28019383	2.3274604	ppb
15) T,M o-xylene	10.47	8407518	0.7730668	ppb

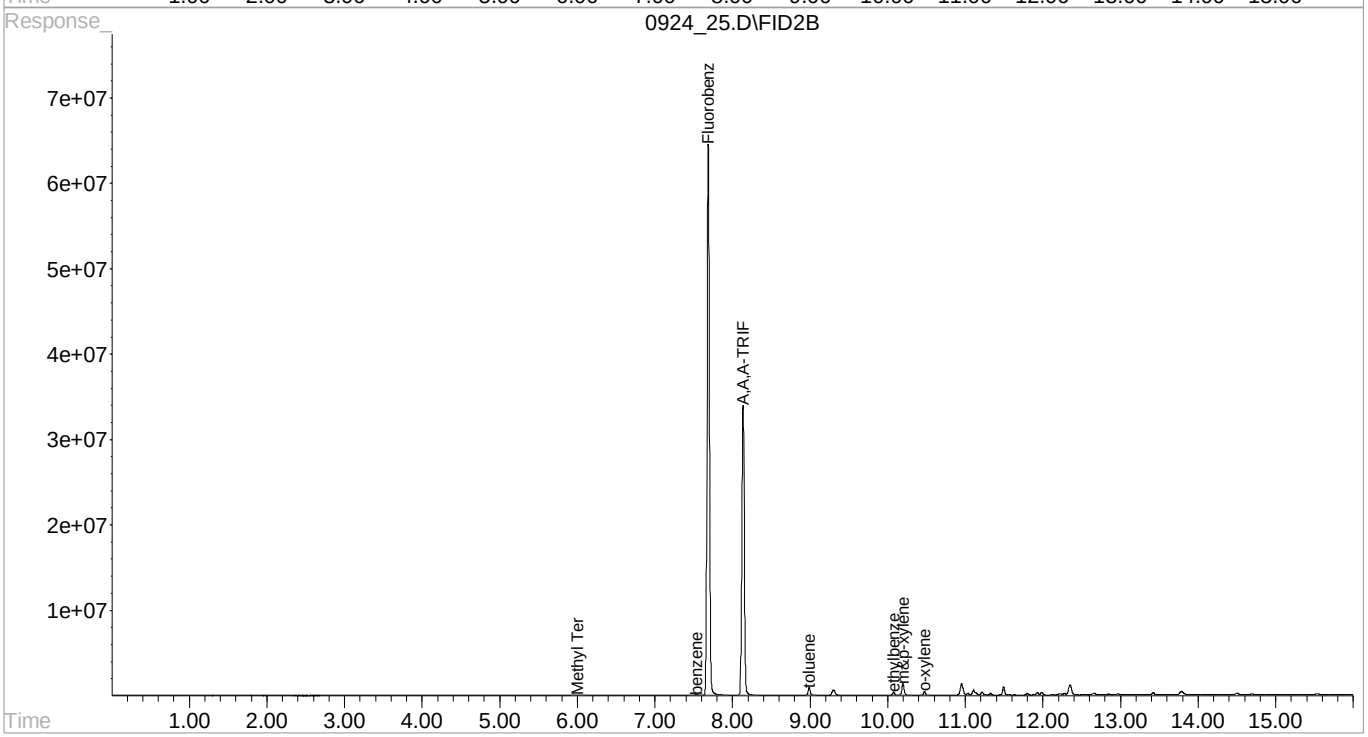
Quantitation Report (QT Reviewed)

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 :





Volatile Organic Compounds by Method 8260B

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

Quality Control Summary
SDG: L729564

Volatile Organic Compounds by Method 8260B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Workgroup: **WG750683**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L729564-03 1x	10/23/2014	10/26/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG750700**
Description: **Volatiles by Method 8260B (SS)**

Sample Name	Collect Date	Analysis Date
L729564-01 1x	10/23/2014	10/31/2014
L729564-02 1x	10/23/2014	10/31/2014
L729564-04 1x	10/23/2014	10/31/2014
L729564-05 1x	10/23/2014	10/31/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS21	LCS WG750683	LCS WG750683	1026_03.D	10/26/2014	12:42 PM
VOCMS21	LCSD WG750683	LCSD WG750683	1026_04.D	10/26/2014	1:04 PM
VOCMS21	MS WG750683	MS WG750683	1026_05.D	10/26/2014	2:08 PM
VOCMS21	MSD WG750683	MSD WG750683	1026_06.D	10/26/2014	2:30 PM
VOCMS21	Blank WG750683	Blank WG750683	1026_11.D	10/26/2014	4:30 PM
VOCMS21	TU904-TRIPBLANK06-NT01	L729564-03	1026_16.D	10/26/2014	6:50 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS20	LCS WG750700	LCS WG750700	1030_35.D	10/30/2014	9:31 PM
VOCMS20	MS WG750700	MS WG750700	1030_36.D	10/30/2014	10:00 PM
VOCMS20	MSD WG750700	MSD WG750700	1030_37.D	10/30/2014	10:18 PM
VOCMS20	LCSD WG750700	LCSD WG750700	1030_38.D	10/30/2014	10:36 PM
VOCMS20	Blank WG750700	Blank WG750700	1030_40.D	10/30/2014	11:13 PM
VOCMS20	TU904-SB05-NS01	L729564-01	1030_47.D	10/31/2014	1:48 AM
VOCMS20	TU904-SB05-NS02	L729564-02	1030_48.D	10/31/2014	2:06 AM
VOCMS20	TU904-SB08-NS01	L729564-04	1030_49.D	10/31/2014	2:24 AM
VOCMS20	TU904-SB08-NS02	L729564-05	1030_50.D	10/31/2014	2:42 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

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	0.000322	
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	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0287	115	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0264	106	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0287	115	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0264	106	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0263	105	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0267	107	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0263	105	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0278	111	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0297	119	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0279	112	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0300	120	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0285	114	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0266	107	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0255	102	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0272	109	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0268	107	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0283	113	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0265	106	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0259	104	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0276	110	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1312	105	55 - 149	
2-Chlorotoluene	1	0.025	0.0272	109	74.7 - 122	
2-Hexanone	1	0.125	0.1493	119	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0272	109	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1426	114	70.5 - 133	
Acetone	1	0.125	0.1225	98	35.6 - 163	
Benzene	1	0.025	0.0264	106	74.8 - 121	
Bromobenzene	1	0.025	0.0260	104	77.5 - 116	
Bromochloromethane	1	0.025	0.0266	106	77.6 - 119	
Bromodichloromethane	1	0.025	0.0279	112	75.1 - 116	
Bromoform	1	0.025	0.0309	124	67.5 - 130	
Bromomethane	1	0.025	0.0295	118	49.9 - 162	
Carbon disulfide	1	0.025	0.0278	111	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0272	109	70.2 - 123	
Chlorobenzene	1	0.025	0.0257	103	78.1 - 119	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

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	0.0301	120	61.7 - 135	
Chloroform	1	0.025	0.0259	104	76 - 121	
Chloromethane	1	0.025	0.0253	101	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	0.0271	108	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0247	98.8	54.8 - 135	
Ethylbenzene	1	0.025	0.0275	110	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0270	108	64.7 - 129	
Isopropylbenzene	1	0.025	0.0275	110	78.6 - 132	
m&p-Xylenes	1	0.05	0.0554	111	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0263	105	71.2 - 126	
Methylene Chloride	1	0.025	0.0238	95.1	70.3 - 120	
Naphthalene	1	0.025	0.0272	109	68.4 - 128	
n-Butylbenzene	1	0.025	0.0283	113	76.2 - 126	
n-Propylbenzene	1	0.025	0.0272	109	78.2 - 122	
o-Xylene	1	0.025	0.0270	108	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0279	112	74 - 131	
sec-Butylbenzene	1	0.025	0.0269	108	74.4 - 127	
Styrene	1	0.025	0.0277	111	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0271	108	75.3 - 126	
Tetrachloroethene	1	0.025	0.0271	109	72.6 - 126	
Toluene	1	0.025	0.0279	112	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0260	104	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0301	120	74.3 - 123	
Trichloroethene	1	0.025	0.0260	104	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0270	108	63.5 - 135	
Vinyl chloride	1	0.025	0.0239	95.6	65.9 - 128	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0291	116	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0254	102	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0293	117	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0266	107	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0248	99.3	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0260	104	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0257	103	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0330	132	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0282	113	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0331	132	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0288	115	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0317	127	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0284	114	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0279	112	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0261	104	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0271	108	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0283	113	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0295	118	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0263	105	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0268	107	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0260	104	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1256	101	55 - 149	
2-Chlorotoluene	1	0.025	0.0287	115	74.7 - 122	
2-Hexanone	1	0.125	0.1493	119	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0283	113	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1508	121	70.5 - 133	
Acetone	1	0.125	0.1128	90.2	35.6 - 163	
Benzene	1	0.025	0.0262	105	74.8 - 121	
Bromobenzene	1	0.025	0.0272	109	77.5 - 116	
Bromochloromethane	1	0.025	0.0258	103	77.6 - 119	
Bromodichloromethane	1	0.025	0.0278	111	75.1 - 116	
Bromoform	1	0.025	0.0314	125	67.5 - 130	
Bromomethane	1	0.025	0.0306	122	49.9 - 162	
Carbon disulfide	1	0.025	0.0273	109	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0262	105	70.2 - 123	
Chlorobenzene	1	0.025	0.0260	104	78.1 - 119	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0279	111	74 - 121	
Chloroethane	1	0.025	0.0300	120	61.7 - 135	
Chloroform	1	0.025	0.0248	99.1	76 - 121	
Chloromethane	1	0.025	0.0289	115	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0255	102	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0302	121	78.2 - 120	J4
Dibromomethane	1	0.025	0.0274	110	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0272	109	54.8 - 135	
Ethylbenzene	1	0.025	0.0278	111	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0302	121	64.7 - 129	
Isopropylbenzene	1	0.025	0.0282	113	78.6 - 132	
m&p-Xylenes	1	0.05	0.0568	114	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0248	99	71.2 - 126	
Methylene Chloride	1	0.025	0.0230	91.8	70.3 - 120	
Naphthalene	1	0.025	0.0299	119	68.4 - 128	
n-Butylbenzene	1	0.025	0.0297	119	76.2 - 126	
n-Propylbenzene	1	0.025	0.0283	113	78.2 - 122	
o-Xylene	1	0.025	0.0272	109	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0300	120	74 - 131	
sec-Butylbenzene	1	0.025	0.0287	115	74.4 - 127	
Styrene	1	0.025	0.0280	112	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0284	114	75.3 - 126	
Tetrachloroethene	1	0.025	0.0275	110	72.6 - 126	
Toluene	1	0.025	0.0289	116	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0245	98.1	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0304	122	74.3 - 123	
Trichloroethene	1	0.025	0.0269	107	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0265	106	63.5 - 135	
Vinyl chloride	1	0.025	0.0253	101	65.9 - 128	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

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	0.0287	115	0.0291	116	74.2 - 124		1.16	20	
1,1,1-Trichloroethane	1	0.025	0.0264	106	0.0254	102	73.2 - 123		3.7	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0287	115	0.0293	117	70.7 - 122		2.35	20	
1,1,2-Trichloroethane	1	0.025	0.0264	106	0.0266	107	77.7 - 118		0.99	20	
1,1-Dichloroethane	1	0.025	0.0263	105	0.0248	99.3	70.7 - 126		5.76	20	
1,1-Dichloroethene	1	0.025	0.0267	107	0.0260	104	67.8 - 129		2.46	20	
1,1-Dichloropropene	1	0.025	0.0263	105	0.0257	103	73.1 - 125		2.27	20	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	0.0330	132	64.9 - 135		13.5	20	
1,2,3-Trichloropropane	1	0.025	0.0278	111	0.0282	113	71.8 - 121		1.31	20	
1,2,4-Trichlorobenzene	1	0.025	0.0297	119	0.0331	132	69.7 - 136		11	20	
1,2,4-Trimethylbenzene	1	0.025	0.0279	112	0.0288	115	75 - 123		3.02	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0300	120	0.0317	127	65.4 - 128		5.48	20	
1,2-Dibromoethane	1	0.025	0.0285	114	0.0284	114	76.6 - 121		0.14	20	
1,2-Dichlorobenzene	1	0.025	0.0266	107	0.0279	112	78.4 - 117		4.77	20	
1,2-Dichloroethane	1	0.025	0.0255	102	0.0261	104	68.8 - 124		2.3	20	
1,2-Dichloropropane	1	0.025	0.0272	109	0.0271	108	76.5 - 119		0.48	20	
1,3,5-Trimethylbenzene	1	0.025	0.0268	107	0.0283	113	75.6 - 124		5.55	20	
1,3-Dichlorobenzene	1	0.025	0.0283	113	0.0295	118	70.8 - 128		4.07	20	
1,3-Dichloropropane	1	0.025	0.0265	106	0.0263	105	77.4 - 117		0.95	20	
1,4-Dichlorobenzene	1	0.025	0.0259	104	0.0268	107	78.8 - 115		3.2	20	
2,2-Dichloropropane	1	0.025	0.0276	110	0.0260	104	62.4 - 133		5.94	20	
2-Butanone (MEK)	1	0.125	0.1312	105	0.1256	101	55 - 149		4.34	20	
2-Chlorotoluene	1	0.025	0.0272	109	0.0287	115	74.7 - 122		5.33	20	
2-Hexanone	1	0.125	0.1493	119	0.1493	119	65.6 - 144		0.05	20	
4-Chlorotoluene	1	0.025	0.0272	109	0.0283	113	77.5 - 120		3.87	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1426	114	0.1508	121	70.5 - 133		5.57	20	
Acetone	1	0.125	0.1225	98	0.1128	90.2	35.6 - 163		8.25	23.9	
Benzene	1	0.025	0.0264	106	0.0262	105	74.8 - 121		0.65	20	
Bromobenzene	1	0.025	0.0260	104	0.0272	109	77.5 - 116		4.5	20	
Bromochloromethane	1	0.025	0.0266	106	0.0258	103	77.6 - 119		2.94	20	
Bromodichloromethane	1	0.025	0.0279	112	0.0278	111	75.1 - 116		0.43	20	
Bromoform	1	0.025	0.0309	124	0.0314	125	67.5 - 130		1.4	20	
Bromomethane	1	0.025	0.0295	118	0.0306	122	49.9 - 162		3.9	20	
Carbon disulfide	1	0.025	0.0278	111	0.0273	109	64.6 - 140		1.65	20	
Carbon tetrachloride	1	0.025	0.0272	109	0.0262	105	70.2 - 123		3.45	20	
Chlorobenzene	1	0.025	0.0257	103	0.0260	104	78.1 - 119		1.34	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

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	0.0279	111	74 - 121		0.59	20	
Chloroethane	1	0.025	0.0301	120	0.0300	120	61.7 - 135		0.04	20	
Chloroform	1	0.025	0.0259	104	0.0248	99.1	76 - 121		4.36	20	
Chloromethane	1	0.025	0.0253	101	0.0289	115	61.5 - 129		13.1	20	
cis-1,2-Dichloroethene	1	0.025	0.0263	105	0.0255	102	76 - 119		3.38	20	
cis-1,3-Dichloropropene	1	0.025	0.0294	118	0.0302	121	78.2 - 120	J4	2.73	20	
Dibromomethane	1	0.025	0.0271	108	0.0274	110	79.5 - 118		1.24	20	
Dichlorodifluoromethane	1	0.025	0.0247	98.8	0.0272	109	54.8 - 135		9.71	20	
Ethylbenzene	1	0.025	0.0275	110	0.0278	111	78.8 - 122		1.2	20	
Hexachloro-1,3-butadiene	1	0.025	0.0270	108	0.0302	121	64.7 - 129		11	20	
Isopropylbenzene	1	0.025	0.0275	110	0.0282	113	78.6 - 132		2.46	20	
m&p-Xylenes	1	0.05	0.0554	111	0.0568	114	78.8 - 121		2.39	20	
Methyl tert-butyl ether	1	0.025	0.0263	105	0.0248	99	71.2 - 126		5.95	20	
Methylene Chloride	1	0.025	0.0238	95.1	0.0230	91.8	70.3 - 120		3.52	20	
Naphthalene	1	0.025	0.0272	109	0.0299	119	68.4 - 128		9.45	20	
n-Butylbenzene	1	0.025	0.0283	113	0.0297	119	76.2 - 126		4.8	20	
n-Propylbenzene	1	0.025	0.0272	109	0.0283	113	78.2 - 122		3.84	20	
o-Xylene	1	0.025	0.0270	108	0.0272	109	77.6 - 122		0.9	20	
p-Isopropyltoluene	1	0.025	0.0279	112	0.0300	120	74 - 131		7.04	20	
sec-Butylbenzene	1	0.025	0.0269	108	0.0287	115	74.4 - 127		6.63	20	
Styrene	1	0.025	0.0277	111	0.0280	112	80.4 - 126		1.19	20	
tert-Butylbenzene	1	0.025	0.0271	108	0.0284	114	75.3 - 126		4.78	20	
Tetrachloroethene	1	0.025	0.0271	109	0.0275	110	72.6 - 126		1.35	20	
Toluene	1	0.025	0.0279	112	0.0289	116	79.7 - 116		3.48	20	
trans-1,2-Dichloroethene	1	0.025	0.0260	104	0.0245	98.1	72.6 - 121		5.85	20	
trans-1,3-Dichloropropene	1	0.025	0.0301	120	0.0304	122	74.3 - 123		1.01	20	
Trichloroethene	1	0.025	0.0260	104	0.0269	107	77.7 - 118		3.35	20	
Trichlorofluoromethane	1	0.025	0.0270	108	0.0265	106	63.5 - 135		1.96	20	
Vinyl chloride	1	0.025	0.0239	95.6	0.0253	101	65.9 - 128		5.89	20	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0244	97.4	72.9 - 124	
1,1,1-Trichloroethane	1	0.025	0.0277	111	73.7 - 124	
1,1,2,2-Tetrachloroethane	1	0.025	0.0253	101	69.4 - 122	
1,1,2-Trichloroethane	1	0.025	0.0245	97.9	79.1 - 118	
1,1-Dichloroethane	1	0.025	0.0274	109	75 - 124	
1,1-Dichloroethene	1	0.025	0.0271	108	70.4 - 129	
1,1-Dichloropropene	1	0.025	0.0285	114	74.9 - 124	
1,2,3-Trichlorobenzene	1	0.025	0.0262	105	69.3 - 131	
1,2,3-Trichloropropane	1	0.025	0.0254	102	71.4 - 123	
1,2,4-Trichlorobenzene	1	0.025	0.0270	108	71.9 - 137	
1,2,4-Trimethylbenzene	1	0.025	0.0259	103	75.5 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0246	98.3	62.8 - 133	
1,2-Dibromoethane	1	0.025	0.0245	98.2	78.6 - 120	
1,2-Dichlorobenzene	1	0.025	0.0253	101	78.3 - 118	
1,2-Dichloroethane	1	0.025	0.0270	108	70.1 - 124	
1,2-Dichloropropane	1	0.025	0.0272	109	77.9 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0260	104	75.9 - 124	
1,3-Dichlorobenzene	1	0.025	0.0246	98.3	72 - 126	
1,3-Dichloropropane	1	0.025	0.0244	97.7	79.1 - 117	
1,4-Dichlorobenzene	1	0.025	0.0248	99.2	78.3 - 117	
2,2-Dichloropropane	1	0.025	0.0283	113	61.3 - 136	
2-Butanone (MEK)	1	0.125	0.1427	114	53.7 - 153	
2-Chlorotoluene	1	0.025	0.0247	98.7	75.6 - 121	
2-Hexanone	1	0.125	0.1343	107	66.7 - 148	
4-Chlorotoluene	1	0.025	0.0262	105	77.3 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1442	115	70.4 - 137	
Acetone	1	0.125	0.1254	100	35.1 - 175	
Benzene	1	0.025	0.0269	108	77.1 - 121	
Bromobenzene	1	0.025	0.0256	102	78.2 - 115	
Bromochloromethane	1	0.025	0.0262	105	78.4 - 119	
Bromodichloromethane	1	0.025	0.0260	104	74.9 - 115	
Bromoform	1	0.025	0.0240	96.1	65.9 - 132	
Bromomethane	1	0.025	0.0302	121	48.7 - 165	
Carbon disulfide	1	0.025	0.0240	96	66.9 - 145	
Carbon tetrachloride	1	0.025	0.0265	106	70 - 124	
Chlorobenzene	1	0.025	0.0246	98.2	79.1 - 119	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0252	101	73.5 - 121	
Chloroethane	1	0.025	0.0244	97.6	66.2 - 132	
Chloroform	1	0.025	0.0272	109	76.7 - 122	
Chloromethane	1	0.025	0.0261	104	63.4 - 131	
cis-1,2-Dichloroethene	1	0.025	0.0266	106	78.2 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0282	113	79.6 - 120	
Dibromomethane	1	0.025	0.0258	103	79.4 - 120	
Dichlorodifluoromethane	1	0.025	0.0241	96.6	57.1 - 137	
Ethylbenzene	1	0.025	0.0258	103	79.7 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0254	102	68.2 - 123	
Isopropylbenzene	1	0.025	0.0266	106	80 - 135	
m&p-Xylenes	1	0.05	0.0519	104	79 - 121	
Methyl tert-butyl ether	1	0.025	0.0277	111	73 - 129	
Methylene Chloride	1	0.025	0.0247	99	72.6 - 120	
Naphthalene	1	0.025	0.0272	109	69.8 - 128	
n-Butylbenzene	1	0.025	0.0282	113	77.5 - 126	
n-Propylbenzene	1	0.025	0.0255	102	77.9 - 123	
o-Xylene	1	0.025	0.0256	102	77.8 - 122	
p-Isopropyltoluene	1	0.025	0.0272	109	75.8 - 129	
sec-Butylbenzene	1	0.025	0.0266	106	75.8 - 126	
Styrene	1	0.025	0.0241	96.3	82.4 - 126	
tert-Butylbenzene	1	0.025	0.0260	104	76.4 - 126	
Tetrachloroethene	1	0.025	0.0239	95.4	73.9 - 125	
Toluene	1	0.025	0.0263	105	79.7 - 118	
trans-1,2-Dichloroethene	1	0.025	0.0272	109	73.8 - 122	
trans-1,3-Dichloropropene	1	0.025	0.0275	110	75.9 - 124	
Trichloroethene	1	0.025	0.0232	92.6	77.9 - 118	
Trichlorofluoromethane	1	0.025	0.0271	108	67.7 - 131	
Vinyl chloride	1	0.025	0.0248	99	66.7 - 130	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0242	96.9	72.9 - 124	
1,1,1-Trichloroethane	1	0.025	0.0285	114	73.7 - 124	
1,1,2,2-Tetrachloroethane	1	0.025	0.0247	98.9	69.4 - 122	
1,1,2-Trichloroethane	1	0.025	0.0237	95	79.1 - 118	
1,1-Dichloroethane	1	0.025	0.0278	111	75 - 124	
1,1-Dichloroethene	1	0.025	0.0279	112	70.4 - 129	
1,1-Dichloropropene	1	0.025	0.0286	115	74.9 - 124	
1,2,3-Trichlorobenzene	1	0.025	0.0257	103	69.3 - 131	
1,2,3-Trichloropropane	1	0.025	0.0240	95.8	71.4 - 123	
1,2,4-Trichlorobenzene	1	0.025	0.0271	108	71.9 - 137	
1,2,4-Trimethylbenzene	1	0.025	0.0263	105	75.5 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0224	89.7	62.8 - 133	
1,2-Dibromoethane	1	0.025	0.0240	96.2	78.6 - 120	
1,2-Dichlorobenzene	1	0.025	0.0248	99.2	78.3 - 118	
1,2-Dichloroethane	1	0.025	0.0260	104	70.1 - 124	
1,2-Dichloropropane	1	0.025	0.0271	108	77.9 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0264	106	75.9 - 124	
1,3-Dichlorobenzene	1	0.025	0.0245	97.9	72 - 126	
1,3-Dichloropropane	1	0.025	0.0240	95.8	79.1 - 117	
1,4-Dichlorobenzene	1	0.025	0.0250	99.8	78.3 - 117	
2,2-Dichloropropane	1	0.025	0.0292	117	61.3 - 136	
2-Butanone (MEK)	1	0.125	0.1348	108	53.7 - 153	
2-Chlorotoluene	1	0.025	0.0249	99.4	75.6 - 121	
2-Hexanone	1	0.125	0.1268	101	66.7 - 148	
4-Chlorotoluene	1	0.025	0.0266	106	77.3 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1352	108	70.4 - 137	
Acetone	1	0.125	0.1183	94.6	35.1 - 175	
Benzene	1	0.025	0.0268	107	77.1 - 121	
Bromobenzene	1	0.025	0.0251	100	78.2 - 115	
Bromochloromethane	1	0.025	0.0257	103	78.4 - 119	
Bromodichloromethane	1	0.025	0.0255	102	74.9 - 115	
Bromoform	1	0.025	0.0231	92.2	65.9 - 132	
Bromomethane	1	0.025	0.0306	122	48.7 - 165	
Carbon disulfide	1	0.025	0.0240	96	66.9 - 145	
Carbon tetrachloride	1	0.025	0.0276	111	70 - 124	
Chlorobenzene	1	0.025	0.0246	98.3	79.1 - 119	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0240	96.1	73.5 - 121	
Chloroethane	1	0.025	0.0249	99.5	66.2 - 132	
Chloroform	1	0.025	0.0275	110	76.7 - 122	
Chloromethane	1	0.025	0.0257	103	63.4 - 131	
cis-1,2-Dichloroethene	1	0.025	0.0276	110	78.2 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0279	111	79.6 - 120	
Dibromomethane	1	0.025	0.0251	100	79.4 - 120	
Dichlorodifluoromethane	1	0.025	0.0245	98.1	57.1 - 137	
Ethylbenzene	1	0.025	0.0256	102	79.7 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0266	106	68.2 - 123	
Isopropylbenzene	1	0.025	0.0270	108	80 - 135	
m&p-Xylenes	1	0.05	0.0519	104	79 - 121	
Methyl tert-butyl ether	1	0.025	0.0266	107	73 - 129	
Methylene Chloride	1	0.025	0.0244	97.7	72.6 - 120	
Naphthalene	1	0.025	0.0261	104	69.8 - 128	
n-Butylbenzene	1	0.025	0.0290	116	77.5 - 126	
n-Propylbenzene	1	0.025	0.0260	104	77.9 - 123	
o-Xylene	1	0.025	0.0259	104	77.8 - 122	
p-Isopropyltoluene	1	0.025	0.0277	111	75.8 - 129	
sec-Butylbenzene	1	0.025	0.0274	110	75.8 - 126	
Styrene	1	0.025	0.0248	99.1	82.4 - 126	
tert-Butylbenzene	1	0.025	0.0265	106	76.4 - 126	
Tetrachloroethene	1	0.025	0.0242	96.8	73.9 - 125	
Toluene	1	0.025	0.0258	103	79.7 - 118	
trans-1,2-Dichloroethene	1	0.025	0.0276	110	73.8 - 122	
trans-1,3-Dichloropropene	1	0.025	0.0273	109	75.9 - 124	
Trichloroethene	1	0.025	0.0232	92.7	77.9 - 118	
Trichlorofluoromethane	1	0.025	0.0277	111	67.7 - 131	
Vinyl chloride	1	0.025	0.0253	101	66.7 - 130	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

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	0.0244	97.4	0.0242	96.9	72.9 - 124		0.48	20	
1,1,1-Trichloroethane	1	0.025	0.0277	111	0.0285	114	73.7 - 124		2.83	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0253	101	0.0247	98.9	69.4 - 122		2.42	20	
1,1,2-Trichloroethane	1	0.025	0.0245	97.9	0.0237	95	79.1 - 118		3.08	20	
1,1-Dichloroethane	1	0.025	0.0274	109	0.0278	111	75 - 124		1.6	20	
1,1-Dichloroethene	1	0.025	0.0271	108	0.0279	112	70.4 - 129		2.91	20	
1,1-Dichloropropene	1	0.025	0.0285	114	0.0286	115	74.9 - 124		0.34	20	
1,2,3-Trichlorobenzene	1	0.025	0.0262	105	0.0257	103	69.3 - 131		2.05	20	
1,2,3-Trichloropropane	1	0.025	0.0254	102	0.0240	95.8	71.4 - 123		5.97	20	
1,2,4-Trichlorobenzene	1	0.025	0.0270	108	0.0271	108	71.9 - 137		0.21	20	
1,2,4-Trimethylbenzene	1	0.025	0.0259	103	0.0263	105	75.5 - 122		1.72	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0246	98.3	0.0224	89.7	62.8 - 133		9.18	20	
1,2-Dibromoethane	1	0.025	0.0245	98.2	0.0240	96.2	78.6 - 120		2.06	20	
1,2-Dichlorobenzene	1	0.025	0.0253	101	0.0248	99.2	78.3 - 118		1.85	20	
1,2-Dichloroethane	1	0.025	0.0270	108	0.0260	104	70.1 - 124		3.64	20	
1,2-Dichloropropane	1	0.025	0.0272	109	0.0271	108	77.9 - 119		0.15	20	
1,3,5-Trimethylbenzene	1	0.025	0.0260	104	0.0264	106	75.9 - 124		1.35	20	
1,3-Dichlorobenzene	1	0.025	0.0246	98.3	0.0245	97.9	72 - 126		0.4	20	
1,3-Dichloropropane	1	0.025	0.0244	97.7	0.0240	95.8	79.1 - 117		1.94	20	
1,4-Dichlorobenzene	1	0.025	0.0248	99.2	0.0250	99.8	78.3 - 117		0.68	20	
2,2-Dichloropropane	1	0.025	0.0283	113	0.0292	117	61.3 - 136		2.95	20	
2-Butanone (MEK)	1	0.125	0.1427	114	0.1348	108	53.7 - 153		5.63	21.2	
2-Chlorotoluene	1	0.025	0.0247	98.7	0.0249	99.4	75.6 - 121		0.7	20	
2-Hexanone	1	0.125	0.1343	107	0.1268	101	66.7 - 148		5.75	20	
4-Chlorotoluene	1	0.025	0.0262	105	0.0266	106	77.3 - 120		1.37	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1442	115	0.1352	108	70.4 - 137		6.45	20	
Acetone	1	0.125	0.1254	100	0.1183	94.6	35.1 - 175		5.79	26.1	
Benzene	1	0.025	0.0269	108	0.0268	107	77.1 - 121		0.31	20	
Bromobenzene	1	0.025	0.0256	102	0.0251	100	78.2 - 115		1.97	20	
Bromochloromethane	1	0.025	0.0262	105	0.0257	103	78.4 - 119		1.71	20	
Bromodichloromethane	1	0.025	0.0260	104	0.0255	102	74.9 - 115		1.94	20	
Bromoform	1	0.025	0.0240	96.1	0.0231	92.2	65.9 - 132		4.11	20	
Bromomethane	1	0.025	0.0302	121	0.0306	122	48.7 - 165		1.43	20	
Carbon disulfide	1	0.025	0.0240	96	0.0240	96	66.9 - 145		0.01	20	
Carbon tetrachloride	1	0.025	0.0265	106	0.0276	111	70 - 124		4.31	20	
Chlorobenzene	1	0.025	0.0246	98.2	0.0246	98.3	79.1 - 119		0.05	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

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	0.0252	101	0.0240	96.1	73.5 - 121		4.8	20	
Chloroethane	1	0.025	0.0244	97.6	0.0249	99.5	66.2 - 132		1.96	20	
Chloroform	1	0.025	0.0272	109	0.0275	110	76.7 - 122		1.01	20	
Chloromethane	1	0.025	0.0261	104	0.0257	103	63.4 - 131		1.53	20	
cis-1,2-Dichloroethene	1	0.025	0.0266	106	0.0276	110	78.2 - 119		3.55	20	
cis-1,3-Dichloropropene	1	0.025	0.0282	113	0.0279	111	79.6 - 120		1.1	20	
Dibromomethane	1	0.025	0.0258	103	0.0251	100	79.4 - 120		2.63	20	
Dichlorodifluoromethane	1	0.025	0.0241	96.6	0.0245	98.1	57.1 - 137		1.62	20	
Ethylbenzene	1	0.025	0.0258	103	0.0256	102	79.7 - 122		0.86	20	
Hexachloro-1,3-butadiene	1	0.025	0.0254	102	0.0266	106	68.2 - 123		4.57	20	
Isopropylbenzene	1	0.025	0.0266	106	0.0270	108	80 - 135		1.4	20	
m&p-Xylenes	1	0.05	0.0519	104	0.0519	104	79 - 121		0.03	20	
Methyl tert-butyl ether	1	0.025	0.0277	111	0.0266	107	73 - 129		3.8	20	
Methylene Chloride	1	0.025	0.0247	99	0.0244	97.7	72.6 - 120		1.32	20	
Naphthalene	1	0.025	0.0272	109	0.0261	104	69.8 - 128		4.16	20	
n-Butylbenzene	1	0.025	0.0282	113	0.0290	116	77.5 - 126		2.68	20	
n-Propylbenzene	1	0.025	0.0255	102	0.0260	104	77.9 - 123		2.07	20	
o-Xylene	1	0.025	0.0256	102	0.0259	104	77.8 - 122		1.18	20	
p-Isopropyltoluene	1	0.025	0.0272	109	0.0277	111	75.8 - 129		1.79	20	
sec-Butylbenzene	1	0.025	0.0266	106	0.0274	110	75.8 - 126		3.12	20	
Styrene	1	0.025	0.0241	96.3	0.0248	99.1	82.4 - 126		2.86	20	
tert-Butylbenzene	1	0.025	0.0260	104	0.0265	106	76.4 - 126		1.68	20	
Tetrachloroethene	1	0.025	0.0239	95.4	0.0242	96.8	73.9 - 125		1.5	20	
Toluene	1	0.025	0.0263	105	0.0258	103	79.7 - 118		1.71	20	
trans-1,2-Dichloroethene	1	0.025	0.0272	109	0.0276	110	73.8 - 122		1.64	20	
trans-1,3-Dichloropropene	1	0.025	0.0275	110	0.0273	109	75.9 - 124		0.92	20	
Trichloroethene	1	0.025	0.0232	92.6	0.0232	92.7	77.9 - 118		0.06	20	
Trichlorofluoromethane	1	0.025	0.0271	108	0.0277	111	67.7 - 131		2.49	20	
Vinyl chloride	1	0.025	0.0248	99	0.0253	101	66.7 - 130		2.15	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Matrix Spike / Matrix Spike Duplicate

L729559-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	<0.0004	0.0267	107	0.0287	115	64 - 128		7.29	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0232	93	0.0261	104	58.7 - 134		11.5	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0274	110	0.0300	120	56 - 132		8.96	22.2	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0254	101	0.0271	108	66.3 - 125		6.64	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0235	94	0.0257	103	58.5 - 132		9.1	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0236	94.4	0.0233	93.2	51.1 - 140		1.27	20.2	
1,1-Dichloropropene	1	0.025	<0.0004	0.0218	87.1	0.0240	95.9	57.3 - 136		9.53	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0295	118	0.0298	119	59.1 - 138		0.92	23.7	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0262	105	0.0280	112	61.4 - 128		6.54	22.4	
1,2,4-Trichlorobenzene	1	0.025	<0.0002	0.0303	121	0.0311	124	63.6 - 143		2.39	21.9	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0257	103	0.0267	107	57.4 - 137		4.1	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0290	116	0.0335	134	57.3 - 136		14.5	27	
1,2-Dibromoethane	1	0.025	<0.0004	0.0266	106	0.0283	113	67.1 - 125		6.11	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0251	101	0.0278	111	68.2 - 123		9.9	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0228	91.2	0.0256	102	60 - 126		11.6	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0247	98.7	0.0279	111	64.2 - 123		12.1	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0249	99.6	0.0259	104	63.6 - 132		4.03	20.5	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0264	106	0.0273	109	63.1 - 131		3.33	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0249	99.5	0.0261	104	67.9 - 121		4.79	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0240	96.1	0.0271	109	68.6 - 123		12.2	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0253	101	0.0280	112	50.5 - 144		10.1	21.9	
2-Butanone (MEK)	1	0.125	<0.0039	0.1353	108	0.1687	135	22.4 - 138		22	27	
2-Chlorotoluene	1	0.025	<0.0004	0.0255	102	0.0264	105	63.6 - 128		3.3	20	
2-Hexanone	1	0.125	<0.0038	0.1549	124	0.1663	133	43.3 - 137		7.11	25.5	
4-Chlorotoluene	1	0.025	<0.0004	0.0254	102	0.0269	108	65.7 - 127		5.52	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1385	111	0.1580	126	60.8 - 140		13.1	25.1	
Acetone	1	0.125	<0.01	0.1525	118	0.1657	129	10 - 130		8.33	27.9	
Benzene	1	0.025	<0.0003	0.0225	89.9	0.0248	99	54.3 - 133		9.71	20	
Bromobenzene	1	0.025	<0.0004	0.0244	97.6	0.0258	103	63.9 - 124		5.6	20	
Bromochloromethane	1	0.025	<0.0005	0.0243	97	0.0264	105	66.5 - 122		8.3	20.8	
Bromodichloromethane	1	0.025	<0.0004	0.0252	101	0.0286	114	63.9 - 121		12.8	20	
Bromoform	1	0.025	<0.0005	0.0300	120	0.0317	127	59.5 - 134		5.69	20.5	
Bromomethane	1	0.025	<0.0009	0.0253	101	0.0229	91.7	41.7 - 155		9.77	21.9	
Carbon disulfide	1	0.025	0.0012	0.0173	64.6	0.0176	65.8	43.3 - 149		1.81	20.3	
Carbon tetrachloride	1	0.025	<0.0004	0.0241	96.2	0.0267	107	55.7 - 134		10.4	20	
Chlorobenzene	1	0.025	<0.0003	0.0238	95.1	0.0252	101	67 - 125		5.83	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Matrix Spike / Matrix Spike Duplicate

L729559-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0266	106	0.0290	116	64.3 - 125		8.67	20.8	
Chloroethane	1	0.025	<0.0005	0.0271	108	0.0237	94.8	51.5 - 136		13.5	40	
Chloroform	1	0.025	<0.0003	0.0240	95.8	0.0263	105	63 - 129		9.14	20	
Chloromethane	1	0.025	<0.0003	0.0204	81.7	0.0201	80.5	42.4 - 135		1.45	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0232	92.8	0.0259	104	59.2 - 129		11	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0265	106	0.0300	120	66.4 - 125		12.2	20	
Dibromomethane	1	0.025	<0.0003	0.0241	96.5	0.0271	109	68.2 - 124		11.8	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0201	80.6	0.0212	84.7	40.6 - 144		5.01	20.2	
Ethylbenzene	1	0.025	<0.0004	0.0251	100	0.0259	104	61.4 - 133		3.11	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0265	106	0.0258	103	55.1 - 136		2.77	23.6	
Isopropylbenzene	1	0.025	<0.0003	0.0249	99.7	0.0265	106	66.8 - 141		6.02	20	
m&p-Xylenes	1	0.05	<0.0007	0.0496	99.2	0.0527	105	61.7 - 133		6.18	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0243	97.1	0.0276	110	57.7 - 134		12.8	20	
Methylene Chloride	1	0.025	<0.001	0.0210	84.1	0.0225	90.2	58.1 - 122		6.92	20	
Naphthalene	1	0.025	0.0057	0.0306	99.6	0.0326	108	58 - 135		6.48	25.5	
n-Butylbenzene	1	0.025	<0.0004	0.0263	105	0.0286	114	62.7 - 140		8.29	20.3	
n-Propylbenzene	1	0.025	<0.0003	0.0252	101	0.0263	105	65.9 - 131		4.29	20	
o-Xylene	1	0.025	<0.0003	0.0249	99.6	0.0259	104	63.3 - 130		4.06	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0261	104	0.0268	107	63.2 - 139		2.8	20.4	
sec-Butylbenzene	1	0.025	<0.0004	0.0251	100	0.0262	105	62.2 - 136		4.49	20.3	
Styrene	1	0.025	<0.0003	0.0255	102	0.0272	109	66.8 - 133		6.44	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0255	102	0.0264	106	63.3 - 134		3.25	21	
Tetrachloroethene	1	0.025	<0.0004	0.0240	96	0.0251	100	53 - 139		4.33	20	
Toluene	1	0.025	<0.0008	0.0240	95.9	0.0259	103	61.4 - 130		7.57	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0209	83.7	0.0227	90.6	56.5 - 129		7.94	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0261	105	0.0302	121	64.1 - 128		14.4	20	
Trichloroethene	1	0.025	0.0059	0.0285	90.1	0.0302	96.8	44.1 - 149		5.79	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0250	100	0.0255	102	49.6 - 145		1.99	21.2	
Vinyl chloride	1	0.025	<0.0003	0.0196	78.2	0.0201	80.2	47.8 - 137		2.53	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729568-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.0311	<0.0003	0.0263	84.4	0.0262	84	64 - 128		0.44	20	
1,1,1-Trichloroethane	1	0.0311	<0.0003	0.0354	114	0.0346	111	58.7 - 134		2.17	20	
1,1,2,2-Tetrachloroethane	1	0.0311	<0.0004	0.0277	89	0.0277	88.9	56 - 132		0.11	22.2	
1,1,2-Trichloroethane	1	0.0311	<0.0003	0.0265	85	0.0262	84.3	66.3 - 125		0.88	20	
1,1-Dichloroethane	1	0.0311	<0.0002	0.0341	109	0.0327	105	58.5 - 132		4.11	20	
1,1-Dichloroethene	1	0.0311	<0.0003	0.0351	113	0.0340	109	51.1 - 140		3.12	20.2	
1,1-Dichloropropene	1	0.0311	<0.0003	0.0361	116	0.0349	112	57.3 - 136		3.39	20	
1,2,3-Trichlorobenzene	1	0.0311	<0.0003	0.0285	91.6	0.0257	82.5	59.1 - 138		10.4	23.7	
1,2,3-Trichloropropane	1	0.0311	<0.0007	0.0275	88.2	0.0272	87.5	61.4 - 128		0.8	22.4	
1,2,4-Trichlorobenzene	1	0.0311	<0.0004	0.0288	92.5	0.0267	85.9	63.6 - 143		7.45	21.9	
1,2,4-Trimethylbenzene	1	0.0311	<0.0002	0.0286	91.8	0.0278	89.1	57.4 - 137		2.9	20	
1,2-Dibromo-3-Chloropropane	1	0.0311	<0.0011	0.0245	78.8	0.0250	80.2	57.3 - 136		1.76	27	
1,2-Dibromoethane	1	0.0311	<0.0003	0.0266	85.4	0.0268	85.9	67.1 - 125		0.6	20	
1,2-Dichlorobenzene	1	0.0311	<0.0003	0.0264	84.9	0.0259	83.1	68.2 - 123		2.25	20	
1,2-Dichloroethane	1	0.0311	<0.0003	0.0317	102	0.0309	99.2	60 - 126		2.59	20	
1,2-Dichloropropane	1	0.0311	<0.0004	0.0319	102	0.0303	97.4	64.2 - 123		5.08	20	
1,3,5-Trimethylbenzene	1	0.0311	<0.0003	0.0287	92.2	0.0282	90.6	63.6 - 132		1.79	20.5	
1,3-Dichlorobenzene	1	0.0311	<0.0002	0.0262	84.2	0.0255	81.9	63.1 - 131		2.81	20	
1,3-Dichloropropane	1	0.0311	<0.0002	0.0269	86.5	0.0266	85.5	67.9 - 121		1.14	20	
1,4-Dichlorobenzene	1	0.0311	<0.0002	0.0265	85	0.0256	82.2	68.6 - 123		3.34	20	
2,2-Dichloropropane	1	0.0311	<0.0003	0.0363	117	0.0345	111	50.5 - 144		5.21	21.9	
2-Butanone (MEK)	1	0.156	<0.0047	0.1692	109	0.1601	103	22.4 - 138		5.5	27	
2-Chlorotoluene	1	0.0311	<0.0003	0.0267	85.8	0.0268	86	63.6 - 128		0.12	20	
2-Hexanone	1	0.156	<0.0038	0.1499	96.3	0.1433	92	43.3 - 137		4.5	25.5	
4-Chlorotoluene	1	0.0311	<0.0002	0.0281	90.2	0.0276	88.6	65.7 - 127		1.8	20	
4-Methyl-2-pentanone (MIBK)	1	0.156	<0.0019	0.1715	110	0.1585	102	60.8 - 140		7.86	25.1	
Acetone	1	0.156	0.0626	0.1505	56.5	0.1456	53.3	10 - 130		3.33	27.9	
Benzene	1	0.0311	<0.0003	0.0329	106	0.0319	103	54.3 - 133		2.91	20	
Bromobenzene	1	0.0311	<0.0003	0.0277	89.1	0.0266	85.5	63.9 - 124		4.09	20	
Bromochloromethane	1	0.0311	<0.0004	0.0317	102	0.0307	98.8	66.5 - 122		3.15	20	
Bromodichloromethane	1	0.0311	<0.0003	0.0294	94.3	0.0290	93	63.9 - 121		1.37	20	
Bromoform	1	0.0311	<0.0004	0.0266	85.5	0.0261	83.8	59.5 - 134		1.96	20.8	
Bromomethane	1	0.0311	<0.0013	0.0379	122	0.0389	125	41.7 - 155		2.77	20.5	
Carbon disulfide	1	0.0311	<0.0003	0.0336	108	0.0323	104	43.3 - 149		4.08	21	
Carbon tetrachloride	1	0.0311	<0.0003	0.0357	115	0.0347	111	55.7 - 134		2.73	20.3	
Chlorobenzene	1	0.0311	<0.0002	0.0262	84.1	0.0268	86	67 - 125		2.16	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729568-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.0311	<0.0004	0.0271	87	0.0264	84.7	64.3 - 125		2.73	20	
Chloroethane	1	0.0311	<0.0009	0.0318	102	0.0311	99.9	51.5 - 136		2.26	20.8	
Chloroform	1	0.0311	<0.0002	0.0329	106	0.0311	100	63 - 129		5.5	20	
Chloromethane	1	0.0311	<0.0004	0.0340	109	0.0329	106	42.4 - 135		3.18	20	
cis-1,2-Dichloroethene	1	0.0311	<0.0002	0.0330	106	0.0312	100	59.2 - 129		5.61	20	
cis-1,3-Dichloropropene	1	0.0311	<0.0003	0.0324	104	0.0314	101	66.4 - 125		3.03	20	
Dibromomethane	1	0.0311	<0.0004	0.0304	97.6	0.0288	92.5	68.2 - 124		5.35	20	
Dichlorodifluoromethane	1	0.0311	<0.0007	0.0324	104	0.0304	97.6	40.6 - 144		6.25	20.2	
Ethylbenzene	1	0.0311	<0.0003	0.0282	90.7	0.0284	91.1	61.4 - 133		0.46	20	
Hexachloro-1,3-butadiene	1	0.0311	<0.0003	0.0263	84.4	0.0239	76.9	55.1 - 136		9.32	23.6	
Isopropylbenzene	1	0.0311	<0.0002	0.0295	94.9	0.0293	94	66.8 - 141		0.99	20	
m&p-Xylenes	1	0.0623	<0.0007	0.0568	91.2	0.0573	92.1	61.7 - 133		0.99	20	
Methyl tert-butyl ether	1	0.0311	<0.0002	0.0340	109	0.0324	104	57.7 - 134		4.77	20	
Methylene Chloride	1	0.0311	<0.001	0.0299	93.8	0.0290	90.7	58.1 - 122		3.32	20	
Naphthalene	1	0.0311	<0.001	0.0300	94.7	0.0278	87.5	58 - 135		7.76	25.5	
n-Butylbenzene	1	0.0311	<0.0003	0.0300	96.3	0.0284	91.3	62.7 - 140		5.29	20	
n-Propylbenzene	1	0.0311	<0.0002	0.0284	91.2	0.0276	88.7	10 - 176		2.86	26.6	
o-Xylene	1	0.0311	<0.0003	0.0282	90.6	0.0279	89.6	63.3 - 130		1.06	20	
p-Isopropyltoluene	1	0.0311	<0.0002	0.0297	95.6	0.0289	92.8	63.2 - 139		2.98	20.4	
sec-Butylbenzene	1	0.0311	<0.0002	0.0293	94.1	0.0288	92.5	62.2 - 136		1.64	20.3	
Styrene	1	0.0311	<0.0002	0.0264	84.8	0.0261	83.7	66.8 - 133		1.28	20	
tert-Butylbenzene	1	0.0311	<0.0002	0.0289	92.9	0.0289	92.7	63.3 - 134		0.21	20.3	
Tetrachloroethene	1	0.0311	<0.0003	0.0269	86.4	0.0277	88.9	53 - 139		2.88	20	
Toluene	1	0.0311	<0.0004	0.0307	98.7	0.0301	96.6	61.4 - 130		2.1	20	
trans-1,2-Dichloroethene	1	0.0311	<0.0003	0.0348	112	0.0336	108	56.5 - 129		3.45	20	
trans-1,3-Dichloropropene	1	0.0311	<0.0003	0.0317	102	0.0320	103	64.1 - 128		1.01	20	
Trichloroethene	1	0.0311	0.0020	0.0282	84.2	0.0282	84.2	44.1 - 149		0.03	20	
Trichlorofluoromethane	1	0.0311	<0.0004	0.0359	115	0.0343	110	49.6 - 145		4.58	21.2	
Vinyl chloride	1	0.0311	<0.0003	0.0339	109	0.0327	105	47.8 - 137		3.51	20	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Internal Standard Response and Retention Time Summary

File ID: 1026_02
Analyzed: 10/26/14 120100

	IS4		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	252783	7.68	614732	4.21	104522	5.33	345012	3.90
Upper Limit	506000	8.18	1230000	4.71	209000	5.83	690000	4.40
Lower Limit	126000	7.18	307000	3.71	52300	4.83	173000	3.40
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729564-03	170327	7.68	452509	4.21	75599	5.33	247983	3.90
MSD WG750683	255767	7.68	626656	4.21	111744	5.33	351201	3.90
MS WG750683	261923	7.68	629398	4.21	106038	5.33	346722	3.90
LCSD WG750683	231902	7.68	509714	4.21	92931	5.33	284803	3.90
LCS WG750683	259593	7.68	620124	4.21	105864	5.33	344983	3.90
BLANK WG750683	168222	7.68	453423	4.21	74396	5.33	253811	3.90

Legend:
IS4 -- 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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1030_33
Analyzed: 10/30/14 202100

	IS4		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	325432	8.22	722418	4.67	126573	5.84	374162	4.34
Upper Limit	651000	8.72	1440000	5.17	253000	6.34	748000	4.84
Lower Limit	163000	7.72	361000	4.17	63300	5.34	187000	3.84
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729564-01	297059	8.22	568358	4.67	104814	5.84	278527	4.34
L729564-02	297675	8.22	558597	4.67	103054	5.84	273577	4.34
L729564-04	291991	8.22	541940	4.67	100387	5.84	272483	4.34
L729564-05	291354	8.22	526745	4.67	97391	5.84	262342	4.34
MSD WG750700	341545	8.22	728727	4.67	131244	5.84	366440	4.34
MS WG750700	338533	8.22	705852	4.67	130815	5.84	353866	4.34
LCSD WG750700	324125	8.22	718571	4.67	125163	5.84	368322	4.34
LCS WG750700	319622	8.22	717591	4.67	125279	5.84	371339	4.34
BLANK WG750700	322770	8.22	710990	4.67	116745	5.84	359335	4.34

Legend:
IS4 -- 1,4-DICHLOROBENZENE-D4
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS1 -- PENTAFLUOROBENZENE

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750683**
Analysis Date:	10/26/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729564-03		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729564-03	VOCMS21	1026_16	0.0399	99.6	0.0395	98.7	0.0396	98.9		
LCS WG750683	VOCMS21	1026_03	0.0399	99.8	0.0397	99.4	0.0399	99.8	0.0421	105
LCSD WG750683	VOCMS21	1026_04	0.0396	99.0	0.0369	92.3	0.0406	102	0.0432	108
MS WG750683	VOCMS21	1026_05	0.0400	99.9	0.0399	99.7	0.0395	98.7	0.0416	104
MSD WG750683	VOCMS21	1026_06	0.0381	95.3	0.0398	99.5	0.0400	100	0.0417	104
BLANK WG750683	VOCMS21	1026_11	0.0387	96.7	0.0385	96.3	0.0398	99.5	0.0422	106

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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750700**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L729564-01, -02, -04, -05		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729564-01	VOCMS20	1030_47	0.0402	100	0.0448	112	0.0414	103		
L729564-02	VOCMS20	1030_48	0.0398	99.6	0.0451	113	0.0410	102		
L729564-04	VOCMS20	1030_49	0.0408	102	0.0442	111	0.0414	104		
L729564-05	VOCMS20	1030_50	0.0412	103	0.0461	115	0.0408	102		
LCS WG750700	VOCMS20	1030_35	0.0395	98.8	0.0389	97.4	0.0412	103	0.0409	102
LCSD WG750700	VOCMS20	1030_38	0.0400	100	0.0391	97.7	0.0412	103	0.0406	101
MS WG750700	VOCMS20	1030_36	0.0398	99.6	0.0424	106	0.0417	104	0.0399	99.6
MSD WG750700	VOCMS20	1030_37	0.0400	99.9	0.0411	103	0.0414	104	0.0390	97.5
BLANK WG750700	VOCMS20	1030_40	0.0410	103	0.0400	99.9	0.0408	102	0.0413	103

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 71 - 126
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 78.3 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 88.50 - 111
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 85 - 114

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Instrument Performance Summary

FileID: 1026_02.D Date: 10/26/2014 Time: 12:01 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	17.8
75	30 - 60% of mass 95	47.3
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.8
173	0 - 2% of mass 174	0.3
174	50 - 150% of mass 95	68.5
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	97.2
177	5 - 9% of mass 176	6.5

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG750683	LCS WG750683	1026_03.D	10/26/2014	12:42 PM
LCSD WG750683	LCSD WG750683	1026_04.D	10/26/2014	1:04 PM
MS WG750683	MS WG750683	1026_05.D	10/26/2014	2:08 PM
MSD WG750683	MSD WG750683	1026_06.D	10/26/2014	2:30 PM
Blank WG750683	Blank WG750683	1026_11.D	10/26/2014	4:30 PM
TU904-TRIPBLANK06-NT01	L729564-03	1026_16.D	10/26/2014	6:50 PM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS20

Instrument Performance Summary

FileID: 1030_32.D Date: 10/30/2014 Time: 8:03 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	19.7
75	30 - 60% of mass 95	53
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	7.3
173	0 - 2% of mass 174	2
174	50 - 150% of mass 95	55.6
175	5 - 9% of mass 174	8.2
176	95 - 101% of mass 174	96.7
177	5 - 9% of mass 176	6.4

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG750700	LCS WG750700	1030_35.D	10/30/2014	9:31 PM
MS WG750700	MS WG750700	1030_36.D	10/30/2014	10:00 PM
MSD WG750700	MSD WG750700	1030_37.D	10/30/2014	10:18 PM
LCSD WG750700	LCSD WG750700	1030_38.D	10/30/2014	10:36 PM
Blank WG750700	Blank WG750700	1030_40.D	10/30/2014	11:13 PM
TU904-SB05-NS01	L729564-01	1030_47.D	10/31/2014	1:48 AM
TU904-SB05-NS02	L729564-02	1030_48.D	10/31/2014	2:06 AM
TU904-SB08-NS01	L729564-04	1030_49.D	10/31/2014	2:24 AM
TU904-SB08-NS02	L729564-05	1030_50.D	10/31/2014	2:42 AM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820J21N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE				0.095	0.087	0.075	0.082	0.082	0.076	0.082293	8.18
DICHLORODIFLUOROMETHANE	0.453	0.624	0.632	0.659	0.668	0.606	0.654	0.669	0.632	0.627682	9.84
CHLOROMETHANE	0.659	0.881	0.846	0.844	0.863	0.797	0.897	0.920	0.866	0.857377	9.10
VINYL CHLORIDE	0.815	0.899	0.909	0.909	0.930	0.885	0.975	0.977	0.911	0.921627	5.35
1,3-BUTADIENE	0.625	0.584	0.516	0.539	0.534	0.533	0.571	0.575	0.543	0.563500	5.97
BROMOMETHANE			0.522	0.423	0.424	0.380	0.339	0.311		0.399915	18.74
CHLOROETHANE		0.187	0.186	0.196	0.183	0.185	0.179	0.181	0.161	0.174100	12.13
TRICHLOROFLUOROMETHANE	0.660	0.809	0.628	0.741	0.735	0.700	0.750	0.750	0.685	0.715880	6.88
DICHLOROFLUOROMETHANE	1.065	1.227	1.209	1.270	1.205	1.193	1.257	1.273	1.190	1.215149	4.76
ETHYL ETHER		0.973	0.817	0.770	0.695	0.649	0.706	0.694	0.652	0.730327	13.74
ACROLEIN	0.060	0.082	0.080	0.089	0.092	0.085	0.100	0.101	0.095	0.090219	14.55
1,1-DICHLOROETHENE	0.966	0.987	1.010	1.016	1.063	0.989	1.099	1.092	1.045	1.036898	4.48
1,1,2-TRICHLOROTRIFLUOROETHANE	0.375	0.537	0.466	0.525	0.534	0.484	0.526	0.529	0.503	0.499510	9.34
ACETONE				0.237	0.193	0.161	0.171	0.171	0.161	0.179126	14.33
IODOMETHANE	1.006	1.016	1.040	1.042	1.045	0.987	1.080	1.080	0.988	1.023136	3.62
CARBON DISULFIDE	2.492	2.464	2.434	2.424	2.327	2.164	2.391	2.433	2.284	2.371842	3.98
METHYLENE CHLORIDE				1.139	0.897	0.827	0.853	0.863	0.799	0.884739	12.12
ACRYLONITRILE	0.138	0.179	0.193	0.189	0.197	0.195	0.226	0.227	0.216	0.202509	14.44
n-Hexane		0.967	0.814	0.710	0.646	0.611	0.689	0.686	0.653	0.716379	14.42
TRANS-1,2-DICHLOROETHENE	0.529	0.732	0.691	0.718	0.723	0.692	0.777	0.781	0.737	0.721717	10.09
METHYL TERT-BUTYL ETHER	1.636	1.811	1.946	1.888	1.977	1.923	2.135	2.179	2.038	1.990497	9.08
1,1-DICHLOROETHANE	1.031	1.392	1.354	1.352	1.351	1.255	1.404	1.420	1.354	1.346791	8.96
VINYL ACETATE	0.766	0.821	0.889	0.826	0.927	0.890	1.048	1.076	1.060	0.952949	12.91
DI-ISOPROPYL ETHER	1.835	2.174	2.152	2.214	2.257	2.175	2.528	2.533	2.462	2.337983	11.57
2,2-Dichloropropane	0.776	0.758	0.805	0.817	0.801	0.768	0.816	0.845	0.742	0.796209	3.90
CIS-1,2-DICHLOROETHENE	0.578	0.856	0.743	0.829	0.827	0.789	0.861	0.879	0.824	0.812391	10.91
2-BUTANONE (MEK)	0.066	0.062	0.065	0.074	0.074	0.073	0.083	0.083	0.078	0.074869	10.79

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820J21N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE	0.287	0.485	0.420	0.430	0.471	0.435	0.479	0.471	0.438	0.439849	12.50
TETRAHYDROFURAN			0.192	0.160	0.184	0.162	0.175	0.177	0.169	0.175098	6.22
CHLOROFORM	1.114	1.257	1.264	1.298	1.326	1.257	1.371	1.374	1.310	1.304353	6.43
DIBROMOFLUOROMETHANE	0.545	0.541	0.550	0.534	0.536	0.548	0.565	0.567	0.567	0.557416	3.56
1,1,1-TRICHLOROETHANE	0.851	0.884	0.917	0.941	0.950	0.932	1.003	1.019	0.956	0.959028	6.88
CARBON TETRACHLORIDE	0.635	0.681	0.813	0.810	0.822	0.728	0.834	0.849	0.806	0.786846	9.23
1,1-Dichloropropene	0.778	0.916	0.981	0.944	0.978	0.933	1.066	1.048	1.015	0.983525	9.29
2,2,4-TRIMETHYLPENTANE	2.579	2.884	2.616	2.879	2.750	2.591	2.855	3.037	2.837	2.831808	6.60
HEPTANE	0.846	0.857	0.999	1.043	1.037	0.997	1.127	1.161	1.120	1.056536	12.12
BENZENE	2.821	3.253	3.276	3.091	3.145	3.018	3.317	3.283	3.168	3.195907	5.51
1,2-DICHLOROETHANE	0.888	0.919	0.992	1.053	1.019	0.963	1.068	1.046	0.993	1.002257	6.00
TRICHLOROETHENE	0.522	0.502	0.407	0.406	0.399	0.364	0.384	0.373	0.356	0.403159	14.09
1,2-DICHLOROPROPANE	0.268	0.261	0.281	0.279	0.284	0.270	0.299	0.300	0.293	0.285982	5.46
DIBROMOMETHANE	0.164	0.216	0.233	0.208	0.230	0.206	0.221	0.219	0.208	0.211538	8.52
BROMODICHLOROMETHANE	0.513	0.546	0.517	0.541	0.530	0.499	0.547	0.548	0.534	0.534039	3.32
a,a,a-Trifluorotoluene	0.551	0.558	0.551	0.549	0.547	0.542	0.534	0.533	0.524	0.539563	2.33
2-CHLOROETHYL VINYL ETHER				0.133	0.147	0.152	0.184	0.187	0.186	0.173830	15.32
CIS-1,3-DICHLOROPROPENE	0.426	0.581	0.610	0.570	0.645	0.620	0.679	0.685	0.681	0.627568	13.05
4-METHYL-2-PENTANONE (MIBK)	0.089	0.092	0.103	0.099	0.115	0.107	0.127	0.128	0.125	0.112945	13.94
TOLUENE-D8	1.270	1.282	1.277	1.268	1.280	1.273	1.269	1.265	1.273	1.271646	0.53
TOLUENE	1.501	1.805	1.823	1.850	1.815	1.706	1.802	1.778	1.729	1.760761	5.41
TRANS-1,3-DICHLOROPROPENE		0.108	0.092	0.129	0.134	0.129	0.139	0.144	0.137	0.129701	13.14
1,1,2-TRICHLOROETHANE	1.542	1.934	1.992	2.162	2.041	1.846	2.034	1.939	1.897	1.918122	8.23
TETRACHLOROETHENE	1.374	1.648	1.520	1.760	1.559	1.444	1.536	1.482	1.457	1.501758	8.23
1,3-Dichloropropane	3.209	3.710	4.029	3.826	3.633	3.509	3.772	3.603	3.599	3.635215	5.71
2-HEXANONE		0.562	0.569	0.551	0.635	0.619	0.752	0.743	0.737	0.662662	12.66
CHLORODIBROMOMETHANE	1.396	1.737	1.823	1.884	1.879	1.833	2.028	1.992	1.969	1.855142	9.36
1,2-DIBROMOETHANE	1.404	1.697	1.844	1.971	1.926	1.745	1.946	1.866	1.845	1.802877	8.69
CHLOROBENZENE	6.136	6.768	6.675	7.357	6.752	6.521	6.982	6.702	6.564	6.634518	5.39

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820J21N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	2.058	1.973	1.889	2.035	1.974	1.933	2.101	2.056	2.023	1.996037	3.24
ETHYLBENZENE	3.053	3.415	3.487	3.765	3.632	3.619	3.867	3.728	3.721	3.586153	6.17
M&P-XYLENE	3.879	4.055	4.191	4.715	4.650	4.494	4.832	4.683	4.578	4.444280	6.74
O-XYLENE	3.310	4.084	4.157	4.503	4.413	4.246	4.722	4.620	4.530	4.305894	8.86
STYRENE	3.486	3.938	4.223	4.587	5.403	6.168	7.041	7.330	7.399	5.819279	26.36
Bromoform		0.786	0.932	1.046	1.039	1.011	1.094	1.062	1.050	1.005847	8.75
Isopropylbenzene	7.06	10.38	10.26	10.96	11.10	10.76	11.89	11.74	11.55	10.73930	12.32
4-BROMOFLUOROBENZENE	2.920	2.975	2.894	3.045	2.939	3.007	2.967	2.984	3.058	2.964638	1.91
Bromobenzene	5.244	5.119	5.252	5.685	5.502	5.282	5.635	5.539	5.484	5.407598	3.28
1,1,2,2-TETRACHLOROETHANE	1.863	2.474	2.499	2.381	2.344	2.286	2.546	2.505	2.439	2.368067	7.87
1,2,3-TRICHLOROPROPANE	0.701	0.473	0.583	0.739	0.712	0.696	0.753	0.723	0.721	0.677747	12.01
TRANS-1,4-DICHLORO-2-BUTENE			0.526	0.527	0.593	0.622	0.729	0.733	0.728	0.654363	13.49
n-Propylbenzene	12.74	13.54	13.90	14.22	14.06	13.42	14.50	14.27	14.15	13.85793	3.55
4-ETHYLTOLUENE	10.54	10.42	10.69	11.96	11.34	11.15	12.13	11.81	11.60	11.28714	5.05
2-Chlorotoluene	2.424	2.495	2.491	2.857	2.837	2.689	2.770	2.665	2.605	2.601694	6.87
4-Chlorotoluene	7.616	8.405	8.012	8.868	8.777	8.345	9.245	9.071	8.918	8.616520	5.58
1,3,5-Trimethylbenzene	8.32	8.88	9.10	9.74	9.80	9.54	10.32	10.16	9.96	9.53996	6.14
tert-Butylbenzene	6.518	7.133	6.859	7.719	7.648	7.613	8.356	8.168	8.044	7.595835	7.34
1,2,4-Trimethylbenzene	8.06	9.17	9.11	9.90	10.06	9.52	10.66	10.33	10.13	9.69529	7.37
sec-Butylbenzene	8.94	11.04	11.24	12.29	12.55	12.08	13.41	13.16	12.86	12.03619	10.40
1,3-DICHLOROBENZENE	4.375	5.347	4.928	5.509	5.093	4.788	5.155	4.891	4.782	4.903276	7.27
p-Isopropyltoluene	7.30	8.02	8.21	9.58	9.98	9.79	10.73	10.53	10.30	9.43874	11.78
DICYCLOPENTADIENE			7.87	9.83	10.07	10.23	12.03	12.16	12.40	11.03089	14.55
1,4-DICHLOROBENZENE	1.991	1.922	1.945	1.915	1.945	1.759	1.898	1.830	1.808	1.873538	4.12
1,2,3-TRIMETHYLBENZENE	3.617	3.651	3.600	3.775	3.898	3.623	4.114	4.011	4.074	3.889581	6.48
1,2-DICHLOROBENZENE	1.569	1.701	1.698	1.737	1.706	1.615	1.814	1.738	1.738	1.717805	4.46
n-Butylbenzene	2.944	3.067	3.184	3.429	3.535	3.409	3.909	3.859	3.910	3.587661	11.78
1,2-Dibromo-3-chloropropane				0.114	0.129	0.130	0.150	0.148	0.149	0.142283	12.17
1,2,4-Trichlorobenzene	0.804	0.895	0.976	0.939	0.969	0.947	1.075	1.031	1.027	0.982132	8.75

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820J21N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.467	0.541	0.518	0.508	0.520	0.492	0.550	0.529	0.517	0.519380	4.68
Naphthalene	2.228	2.241	2.169	2.191	2.276	2.224	2.709	2.686	2.722	2.480156	12.73
1,2,3-Trichlorobenzene	0.666	1.006	0.923	0.914	0.921	0.879	0.980	0.949	0.950	0.923586	10.23
1-Methylnaphthalene					1.176	1.186	1.439	1.496	1.559	1.454271	14.27
2-Methylnaphthalene			0.889	0.997	1.088	1.080	1.275	1.309	1.327	1.192349	15.42
ETHANOL										0.007483	9.64
Bromoethane										0.520895	7.50
2-PROPANOL										0.035580	8.88
Methyl Acetate										0.390871	6.91
ACETONITRILE										0.072608	7.76
ALLYL CHLORIDE										0.370906	8.41
tert-BUTYL ALCOHOL										0.108324	7.94
chloroprene										0.631749	10.35
ETHYL TERT-BUTYL ETHER										2.151440	9.31
PROPIONITRILE										0.083308	7.97
Ethyl Acetate										0.526552	8.63
METHACRYLONITRILE										0.267012	8.18
Cyclohexane										0.906915	9.04
tert-butyl formate										0.421701	16.53
ISOBUTANOL										0.033121	13.41
t-Amyl Alcohol										0.040066	9.32
TERT-AMYL METHYL ETHER										1.958589	8.92
N-BUTANOL										0.008197	11.60
Methyl Cyclohexane										0.707766	21.40
2-nitropropane										0.074946	10.21
METHYL METHACRYLATE										0.273055	11.26
1,4-DIOXANE										0.003521	9.02
n-octane										0.322119	8.88
3,3-DIMETHYL-1-BUTANOL										0.018549	12.86

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Test: Volatile Organic Compounds by Method 8260B
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Instrument ID: VOCMS20
Method Name : V820J21N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										2.288419	14.64
CIS-1,4-DICHLORO-2-BUTENE										0.690953	10.02
Cyclohexanone										0.220357	15.00
PENTACHLOROETHANE										1.464553	6.39
Hexachloroethane										1.711757	8.97

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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
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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: L729564
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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Quality Control Summary
SDG: L729564
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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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: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/26/2014
FileName : 1026_02.D Time : 12:01 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dichlorodifluoromethane	0.6118	0.6636	8.47		
Chloromethane	1.0703	1.0548	8.32	>0.1	**
Vinyl chloride	1.0454	1.0526	0.69		
Bromomethane	0.5010	0.5736	20		**
Chloroethane	0.1683	0.2127	26.4		
Trichlorofluoromethane	0.8883	0.9755	9.82		
1,1-Dichloroethene	1.0559	1.1653	10.4		
Acetone	0.1929	0.1803	6.52		
Carbon Disulfide	2.4335	2.6815	10.2		
Methylene Chloride	0.8058	0.7730	4.06		
trans-1,2-Dichloroethene	0.7386	0.7601	2.9		
Methyl tert-butyl ether	2.0895	2.1137	1.16		
1,1-Dichloroethane	1.4643	1.5205	3.84	>0.1	
2,2-Dichloropropane	1.0615	1.1849	11.6		
cis-1,2-Dichloroethene	0.7691	0.7874	2.38		
2-Butanone (MEK)	0.0853	0.0825	3.32		
Bromochloromethane	0.3767	0.3961	5.15		
Chloroform	1.2308	1.2575	2.16		
1,1,1-Trichloroethane	1.0062	1.0478	4.14		
Carbon tetrachloride	0.8901	0.9563	7.44		
1,1-Dichloropropene	1.1589	1.2093	4.35		
Benzene	3.3265	3.4425	3.49		
1,2-Dichloroethane	0.8762	0.8613	1.69		
Trichloroethene	0.3883	0.4025	3.67		
1,2-Dichloropropane	0.3244	0.3550	9.42		
Dibromomethane	0.1966	0.2087	6.14		
Bromodichloromethane	0.4738	0.5047	6.52		
cis-1,3-Dichloropropene	0.6244	0.7291	16.8		
4-Methyl-2-pentanone (MIBK)	0.1504	0.1605	6.71		
Toluene	1.9062	2.2280	16.9		
trans-1,3-Dichloropropene	0.1225	0.1427	16.5		

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/26/2014
FileName : 1026_02.D Time : 12:01 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.8829	1.9243	2.2	
Tetrachloroethene	1.6290	1.8165	11.5	
1,3-Dichloropropane	3.7665	3.8449	2.08	
2-Hexanone	0.8128	0.9017	10.9	
Chlorodibromomethane	1.6581	1.8160	9.52	
1,2-Dibromoethane	1.6428	1.8067	9.98	
Chlorobenzene	6.4513	6.6359	2.86	>0.3
1,1,1,2-Tetrachloroethane	1.6979	1.9414	14.3	
Ethylbenzene	3.5533	3.9663	11.6	
m&p-Xylene	4.3713	4.9073	12.3	
o-Xylene	4.1556	4.4844	7.91	
Styrene	6.6290	7.3430	10.8	
Bromoform	0.8880	1.0778	21.4	>0.1
Isopropylbenzene	11.1041	12.2894	10.7	
Bromobenzene	5.1828	5.4216	4.61	
1,1,2,2-Tetrachloroethane	2.4436	2.6795	9.66	>0.3
1,2,3-Trichloropropane	0.6606	0.6763	2.37	
n-Propylbenzene	13.7836	15.3489	11.4	
2-Chlorotoluene	2.4569	2.7343	11.3	
4-Chlorotoluene	7.8003	8.6086	10.4	
1,3,5-Trimethylbenzene	9.4033	10.1904	8.37	
tert-Butylbenzene	7.6294	8.4771	11.1	
1,2,4-Trimethylbenzene	8.9419	9.9856	11.7	
sec-Butylbenzene	12.6977	13.9977	10.2	
1,3-Dichlorobenzene	4.2679	4.8880	14.5	
p-Isopropyltoluene	9.7677	11.1328	14	
1,4-Dichlorobenzene	1.9242	2.0455	6.31	
1,2-Dichlorobenzene	1.6771	1.7951	7.04	
n-Butylbenzene	3.9308	4.5488	15.7	
1,2-Dibromo-3-Chloropropane	0.1351	0.1447	7.12	
1,2,4-Trichlorobenzene	0.9081	1.1250	23.9	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/26/2014
FileName : 1026_02.D Time : 12:01 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Hexachloro-1,3-butadiene	0.5469	0.6107	11.7	
Naphthalene	1.7845	2.4310	4.49	**
1,2,3-Trichlorobenzene	0.8033	0.9461	17.8	

*** - calibrated by linear regression*

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Quality Control Summary
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URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS20

Method Name : V820J21N.M Date : 10/30/2014
FileName : 1030_33.D Time : 8:21 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dichlorodifluoromethane	0.6277	0.6952	10.8		
Chloromethane	0.8574	0.9910	15.6	>0.1	
Vinyl chloride	0.9216	1.0204	10.7		
Bromomethane	0.3999	0.3981	23.9		**
Chloroethane	0.1741	0.1876	7.76		
Trichlorofluoromethane	0.7159	0.8121	13.4		
1,1-Dichloroethene	1.0369	1.1798	13.8		
Acetone	0.1791	0.1833	2.32		
Carbon Disulfide	2.3718	2.4186	1.97		
Methylene Chloride	0.8847	0.8990	1.61		
trans-1,2-Dichloroethene	0.7217	0.8367	15.9		
Methyl tert-butyl ether	1.9905	2.3124	16.2		
1,1-Dichloroethane	1.3468	1.5499	15.1	>0.1	
2,2-Dichloropropane	0.7962	0.9470	18.9		
cis-1,2-Dichloroethene	0.8124	0.9038	11.3		
2-Butanone (MEK)	0.0749	0.0857	14.4		
Bromochloromethane	0.4398	0.4773	8.51		
Chloroform	1.3044	1.4699	12.7		
1,1,1-Trichloroethane	0.9590	1.0918	13.8		
Carbon tetrachloride	0.7868	0.8677	10.3		
1,1-Dichloropropene	0.9835	1.1504	17		
Benzene	3.1959	3.4924	9.28		
1,2-Dichloroethane	1.0023	1.0994	9.69		
Trichloroethene	0.4032	0.3886	3.61		
1,2-Dichloropropane	0.2860	0.3231	13		
Dibromomethane	0.2115	0.2232	5.51		
Bromodichloromethane	0.5340	0.5667	6.12		
cis-1,3-Dichloropropene	0.6276	0.7349	17.1		
4-Methyl-2-pentanone (MIBK)	0.1129	0.1356	20		
Toluene	1.7608	1.9210	9.1		
trans-1,3-Dichloropropene	0.1297	0.1522	17.3		

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS20

Method Name : V820J21N.M Date : 10/30/2014
FileName : 1030_33.D Time : 8:21 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
1,1,2-Trichloroethane	1.9181	1.9462	1.46		
Tetrachloroethene	1.5018	1.5230	1.42		
1,3-Dichloropropane	3.6352	3.7120	2.11		
2-Hexanone	0.6627	0.7278	9.83		
Chlorodibromomethane	1.8551	1.8777	1.22		
1,2-Dibromoethane	1.8029	1.8269	1.33		
Chlorobenzene	6.6345	6.6995	0.98	>0.3	
1,1,1,2-Tetrachloroethane	1.9960	1.9571	1.95		
Ethylbenzene	3.5862	3.7854	5.56		
m&p-Xylene	4.4443	4.7666	7.25		
o-Xylene	4.3059	4.5429	5.5		
Styrene	5.8193	6.9142	3.3		**
Bromoform	1.0058	0.9812	2.45	>0.1	
Isopropylbenzene	10.7393	11.5857	7.88		
Bromobenzene	5.4076	5.5294	2.25		
1,1,2,2-Tetrachloroethane	2.3681	2.4483	3.39	>0.3	
1,2,3-Trichloropropane	0.6777	0.7015	3.51		
n-Propylbenzene	13.8579	14.4333	4.15		
2-Chlorotoluene	2.6017	2.6161	0.55		
4-Chlorotoluene	8.6165	9.1517	6.21		
1,3,5-Trimethylbenzene	9.5400	10.1160	6.04		
tert-Butylbenzene	7.5958	7.9791	5.05		
1,2,4-Trimethylbenzene	9.6953	10.1861	5.06		
sec-Butylbenzene	12.0362	12.9903	7.93		
1,3-Dichlorobenzene	4.9033	4.9035	0		
p-Isopropyltoluene	9.4387	10.3949	10.1		
1,4-Dichlorobenzene	1.8735	1.8739	0.02		
1,2-Dichlorobenzene	1.7178	1.7408	1.34		
n-Butylbenzene	3.5877	4.0968	14.2		
1,2-Dibromo-3-Chloropropane	0.1423	0.1350	5.1		
1,2,4-Trichlorobenzene	0.9821	1.0570	7.62		

*** - 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: L729564
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS20

Method Name : V820J21N.M Date : 10/30/2014
FileName : 1030_33.D Time : 8:21 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Hexachloro-1,3-butadiene	0.5194	0.5168	0.49
Naphthalene	2.4802	2.7865	12.4
1,2,3-Trichlorobenzene	0.9236	0.9548	3.38

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : John A. Heath Jr.
Date Released : 10/31/2014 10:52:48 AM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1030_01	INSTBLK	V820J21N						1	1	10/30/14 0732	"soil IS/SURR14I25028 "
2	1030_01T	INSTBLK VMS								1	10/30/14 0732	
3	1030_02	DNR ICV VMS 25 PPB 14J30895	V820J21N						1	1	10/30/14 0802	"soil IS/SURR14I25028 "
4	1030_03	ICV VMS 25 PPB 14J30895	V820J21N						1	1	10/30/14 0854	"soil IS/SURR14I25028 "
5	1030_04	DNR LCS	V820J21N	WG750857					1	1	10/30/14 0930	"soil IS/SURR14I25028/spk14J30896 "
6	1030_05	LCS	V820J21N	WG750857	V8260AP9	SS			1	1	10/30/14 0948	"soil IS/SURR14I25028/spk14J30896 "
6	1030_05-2	LCS	V820J21N	WG750857	V8260/465	SS	ERMSAZ		1	1	10/30/14 0948	"soil IS/SURR14I25028/spk14J30896 "
7	1030_06	DNR LCSD	V820J21N	WG750857					1	1	10/30/14 1037	"soil IS/SURR14I25028/spk14J30896 "
8	1030_07	LCSD	V820J21N	WG750857	V8260AP9	SS			1	1	10/30/14 1134	"soil IS/SURR14I25028/spk14J30896 "
8	1030_07-2	LCSD	V820J21N	WG750857	V8260/465	SS	ERMSAZ		1	1	10/30/14 1134	"soil IS/SURR14I25028/spk14J30896 "
9	1030_08	MS	V820J21N	WG750857	V8260AP9	SS			18.75	18.75	10/30/14 1214	"soil IS/SURR14I25028/spk14J30896 "
9	1030_08-2	MS	V820J21N	WG750857	V8260/465	SS	ERMSAZ		18.75	18.75	10/30/14 1214	"soil IS/SURR14I25028/spk14J30896 "
10	1030_09	MSD	V820J21N	WG750857	V8260AP9	SS			18.75	18.75	10/30/14 1232	"soil IS/SURR14I25028/spk14J30896 "
10	1030_09-2	MSD	V820J21N	WG750857	V8260/465	SS	ERMSAZ		18.75	18.75	10/30/14 1232	"soil IS/SURR14I25028/spk14J30896 "
11	1030_10	INSTBLK	V820J21N						1	1	10/30/14 1250	"soil IS/SURR14I25028 "
12	1030_10T	INSTBLK VMS	V820J21N							1	10/30/14 1250	
13	1030_11	BLANK	V820J21N	WG750857	V8260AP9	SS			1	1	10/30/14 1308	"soil IS/SURR14I25028 "
13	1030_11-2	BLANK	V820J21N	WG750857	V8260/465	SS	ERMSAZ		1	1	10/30/14 1308	"soil IS/SURR14I25028 "
14	1030_12	L729772-23	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	18.75	18.75	10/30/14 1403	"soil IS/SURR14I25028 "
15	1030_13	L730264-01	V820J21N	WG750857	V8260AP9	SS	ERMWCCA	CA	5	5	10/30/14 1421	"soil IS/SURR14I25028 "
16	1030_14	L730264-02	V820J21N	WG750857	V8260AP9	SS	ERMWCCA	CA	5	5	10/30/14 1439	"soil IS/SURR14I25028 "
17	1030_15	L729624-01	V820J21N	WG750857	V8260AZ	SS	CHETRAPAZ	AZ	23.75	23.75	10/30/14 1457	"soil IS/SURR14I25028 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

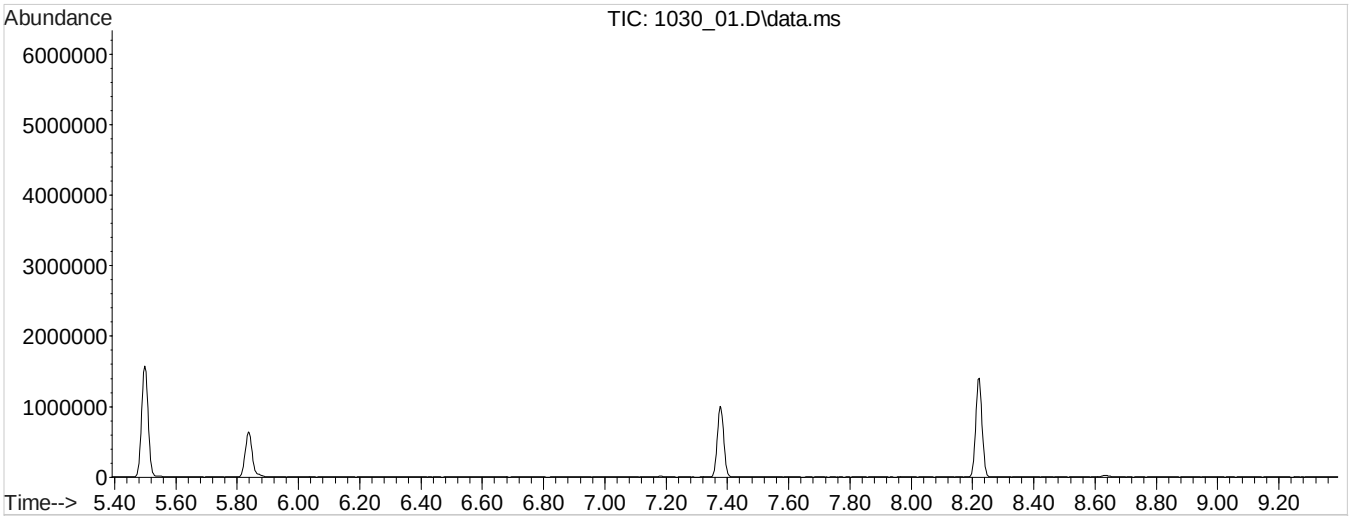
Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : John A. Heath Jr.
Date Released : 10/31/2014 10:52:48 AM
Run ID : 103014
Signature : _____

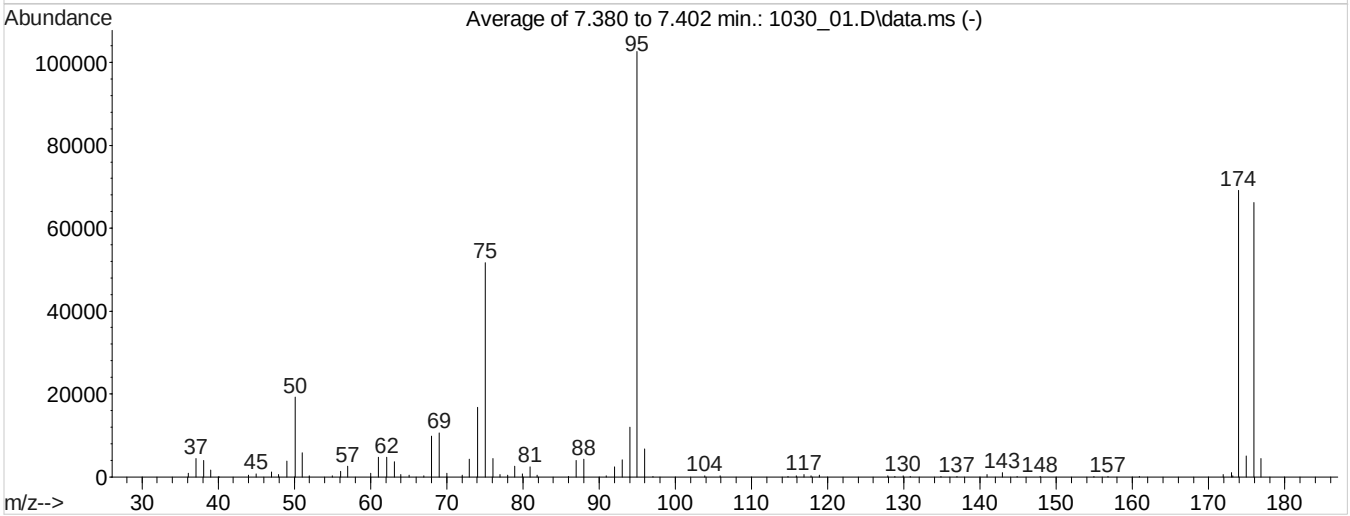
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
18	1030_16	DNR L729738-01	V820J21N	WG750857					1	0.89	10/30/14 1515	"soil IS/SURR14I25028 "
19	1030_17	DNR L729738-02	V820J21N	WG750857					1	0.74	10/30/14 1533	"soil IS/SURR14I25028 "
20	1030_18	L729738-03	V820J21N	WG750857	V8260/465	SS	ERMSAZ	MN	24	24	10/30/14 1551	"soil IS/SURR14I25028 "
21	1030_19	DNR L729738-04	V820J21N	WG750857					1	0.81	10/30/14 1609	"soil IS/SURR14I25028 "
22	1030_20	DNR L729738-05	V820J21N	WG750857					1	0.77	10/30/14 1628	"soil IS/SURR14I25028 "
23	1030_21	L729755-01	V820J21N	WG750857	V8260AZ	SS	WESTECPAZ	AZ	23.75	23.75	10/30/14 1645	"soil IS/SURR14I25028 "
24	1030_22	L729772-17	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	2150	2150	10/30/14 1703	"soil IS/SURR14I25028 "
25	1030_23	L729772-18	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	21.25	21.25	10/30/14 1721	"soil IS/SURR14I25028 "
26	1030_24	L729772-19	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	2550	2550	10/30/14 1739	"soil IS/SURR14I25028 "
27	1030_25	L729772-20	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	2375	2375	10/30/14 1757	"soil IS/SURR14I25028 "
28	1030_26	L729772-21	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	23.75	23.75	10/30/14 1815	"soil IS/SURR14I25028 "
29	1030_27	L729772-22	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	43	43	10/30/14 1833	"soil IS/SURR14I25028 "
30	1030_28	L729772-24	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	24.25	24.25	10/30/14 1851	"soil IS/SURR14I25028 "
31	1030_29	L729780-21	V820J21N	WG750857	V8260HEX	SS	GCICOLOH	OH	5	5	10/30/14 1909	"soil IS/SURR14I25028 "
32	1030_30	L729780-22	V820J21N	WG750857	V8260HEX	SS	GCICOLOH	OH	5	5	10/30/14 1926	"soil IS/SURR14I25028 "
33	1030_31	L729780-23	V820J21N	WG750857	V8260HEX	SS	GCICOLOH	OH	5	5	10/30/14 1945	"soil IS/SURR14I25028 "
34	1030_33	ICV	V820J21N						1	1	10/30/14 2021	"soil IS/SURR14I25028 "
35	1030_34	LCS	V820J21N						1	1	10/30/14 2113	"soil IS/SURR14I25028 "
36	1030_35	LCSD	V820J21N						1	1	10/30/14 2131	"soil IS/SURR14I25028 "
37	1030_36	MS	V820J21N						1	1	10/30/14 2200	"soil IS/SURR14I25028 "
38	1030_37	MSD	V820J21N						1	1	10/30/14 2218	"soil IS/SURR14I25028 "
39	1030_38	LCSD	V820J21N						1	1	10/30/14 2236	"soil IS/SURR14I25028 "
40	1030_40	BLANK	V820J21N						1	1	10/30/14 2313	"soil IS/SURR14I25028 "

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 01.D
Acq On : 30 Oct 2014 7:32 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820J21N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Wed Oct 22 15:05:08 2014





Spectrum Information: Average of 7.380 to 7.402 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	19197	PASS
75	95	30	60	50.3	51658	PASS
95	95	100	100	100.0	102694	PASS
96	95	5	9	6.5	6694	PASS
173	174	0.00	2	1.4	938	PASS
174	95	50	150	67.4	69176	PASS
175	174	5	9	7.4	5095	PASS
176	174	95	101	95.8	66272	PASS
177	176	5	9	6.6	4399	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 03.D
Acq On : 30 Oct 2014 8:54 am
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : soil IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 10:07:25 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	4.341	168	349196	40.0000000 ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.672	114	681101	40.0000000 ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.836	79	119385	40.0000000 ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.222	152	309830	40.0000000 ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	4.341	168	349196	40.0000000 ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.672	114	681101	40.0000000 ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.836	79	119385	40.0000000 ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	309830	40.0000000 ppb		0.00
System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	4.106	111	194096	39.8866787 ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 99.72%			
46)	a,a,a-Trifluorotoluene	5.036	146	381437	41.5172894 ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 103.79%			
50)	TOLUENE-D8	5.499	98	898367	41.4892886 ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 103.72%			
68)	4-BROMOFLUOROBENZENE	7.376	95	353084	39.9040129 ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 99.76%			
Target Compounds							Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC	1602259	No Calib		
3)	PROPENE	1.672	41	29575	41.1675010 ppb		97
4)	DICHLORODIFLUOROMETHANE	1.724	85	133266	24.3203960 ppb		98
5)	CHLOROMETHANE	1.881	50	188316	25.1597530 ppb		99
6)	VINYL CHLORIDE	1.955	62	202909	25.2195185 ppb		98
7)	1,3-BUTADIENE	1.968	39	142629	28.9937822 ppb		97
8)	BROMOMETHANE	2.216	94	85824	30.5725617 ppb		99
9)	CHLOROETHANE	2.316	66	38930	25.6139325 ppb		94
10)	TRICHLOROFLUOROMETHANE	2.406	101	175750	28.1219661 ppb		99
11)	DICHLOROFLUOROMETHANE	2.444	67	285053	26.8711847 ppb		99
12)	ETHYL ETHER	2.595	59	154964	24.3054739 ppb		99
13)	ACROLEIN	2.955	56	135482	172.0183525 ppb		99
14)	1,1-DICHLOROETHENE	2.740	61	252009	27.8401064 ppb		99
15)	1,1,2-TRICHLOROTRIFLUO...	2.762	101	122940	28.1928936 ppb		97
16)	ACETONE	3.129	43	218867	139.9630730 ppb		100
17)	IODOMETHANE	2.846	142	1134580	127.0260201 ppb		99
18)	CARBON DISULFIDE	2.775	76	461049	22.2665022 ppb		99
19)	METHYLENE CHLORIDE	3.100	84	190646	24.6832992 ppb		97
20)	ACRYLONITRILE	3.589	53	286304	161.9475728 ppb		98
21)	n-Hexane	3.219	56	158119	25.2832064 ppb		96
22)	TRANS-1,2-DICHLOROETHENE	3.193	96	169751	26.9423980 ppb		96
23)	METHYL TERT-BUTYL ETHER	3.241	73	501264	28.8466727 ppb	#	100
24)	1,1-DICHLOROETHANE	3.557	63	331363	28.1834799 ppb		99
25)	VINYL ACETATE	3.669	43	1578994	189.8023289 ppb		98
26)	DI-ISOPROPYL ETHER	3.441	45	595266	29.1649040 ppb		100
27)	2,2-Dichloropropane	3.923	77	194101	27.9248999 ppb		99
28)	CIS-1,2-DICHLOROETHENE	3.859	96	188875	26.6317607 ppb		98
29)	2-BUTANONE (MEK)	4.171	72	101716	155.6242330 ppb		95
30)	BROMOCHLOROMETHANE	3.978	130	99996	26.0417002 ppb		88
31)	TETRAHYDROFURAN	4.100	42	42355	27.7085995 ppb		98
32)	CHLOROFORM	4.000	83	314610	27.6291816 ppb		99
34)	1,1,1-TRICHLOROETHANE	4.132	97	236354	28.2307458 ppb		99
35)	CARBON TETRACHLORIDE	4.094	117	199782	29.0842036 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 03.D
Acq On : 30 Oct 2014 8:54 am
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : soil IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 10:07:25 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.193	75	247028	28.7707599 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	741319	29.9869373 ppb		99
38) HEPTANE	4.267	43	267634	29.0166682 ppb	#	94
39) BENZENE	4.341	78	741534	26.5783300 ppb		100
40) 1,2-DICHLOROETHANE	4.460	62	234441	26.7944638 ppb		100
42) TRICHLOROETHENE	4.666	130	158452	23.0818344 ppb		99
43) 1,2-DICHLOROPROPANE	4.984	62	130005	26.6974857 ppb		99
44) DIBROMOMETHANE	4.933	93	95126	26.4093930 ppb		98
45) BROMODICHLOROMETHANE	5.007	83	235126	25.8568993 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	350334	118.3601285 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	297262	27.8180569 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.749	58	296079	153.9530222 ppb		98
51) TOLUENE	5.531	91	768155	25.6210551 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	62422	28.2645718 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.897	97	143004	24.9794061 ppb		97
55) TETRACHLOROETHENE	5.782	164	108740	24.2604885 ppb		98
56) 1,3-Dichloropropane	6.084	76	267212	24.6283925 ppb		98
57) 2-HEXANONE	6.290	58	279496	141.3167319 ppb		99
58) CHLORODIBROMOMETHANE	6.026	129	141585	25.5711587 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	134632	25.0203014 ppb		98
60) CHLOROBENZENE	6.537	112	487163	24.6022697 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.569	133	146424	24.5784173 ppb		100
62) ETHYLBENZENE	6.531	106	269254	25.1561178 ppb		99
63) M&P-XYLENE	6.627	106	685958	51.7137877 ppb		97
64) O-XYLENE	6.936	106	321772	25.0377431 ppb		100
65) STYRENE	6.971	104	507204	23.7706418 ppb		99
66) Bromoform	7.016	173	75908	25.2851679 ppb		99
67) Isopropylbenzene	7.148	105	843695	26.3220614 ppb		100
69) Bromobenzene	7.466	77	401783	24.8941566 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	186940	26.4495583 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.627	110	55024	27.2016293 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.643	53	53642	27.4660534 ppb		96
73) n-Propylbenzene	7.450	91	1048966	25.3614059 ppb		98
74) 4-ETHYLTOLUENE	7.527	105	853228	25.3274376 ppb		100
75) 2-Chlorotoluene	7.589	126	190295	24.5065090 ppb		97
76) 4-Chlorotoluene	7.714	91	653361	25.4057206 ppb		99
77) 1,3,5-Trimethylbenzene	7.589	105	723441	25.4077846 ppb		100
78) tert-Butylbenzene	7.836	119	589080	25.9841764 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	729512	25.2105216 ppb		100
80) sec-Butylbenzene	7.971	105	954589	26.5728219 ppb		100
81) 1,3-DICHLOROBENZENE	8.167	146	354215	24.2042069 ppb		100
82) p-Isopropyltoluene	8.071	119	752826	26.7233589 ppb		100
83) DICYCLOPENTADIENE	8.077	66	889867	27.0286813 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	353253	24.3422029 ppb		98
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	745605	24.7481351 ppb		100
87) 1,2-DICHLOROBENZENE	8.569	146	324755	24.4072315 ppb		99
88) n-Butylbenzene	8.402	91	761073	27.3874436 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.209	157	26695	24.2222706 ppb		93
90) 1,2,4-Trichlorobenzene	9.756	180	200351	26.3365134 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	99428	24.7149520 ppb		97
92) Naphthalene	10.032	128	503350	26.2015836 ppb		100
93) 1,2,3-Trichlorobenzene	10.183	180	185321	25.9050062 ppb		98
94) 1-Methylnaphthalene	10.900	142	286699	25.4517258 ppb		99
95) 2-Methylnaphthalene	11.032	142	256512	27.7741447 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 03.D
Acq On : 30 Oct 2014 8:54 am
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : soil IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 10:07:25 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

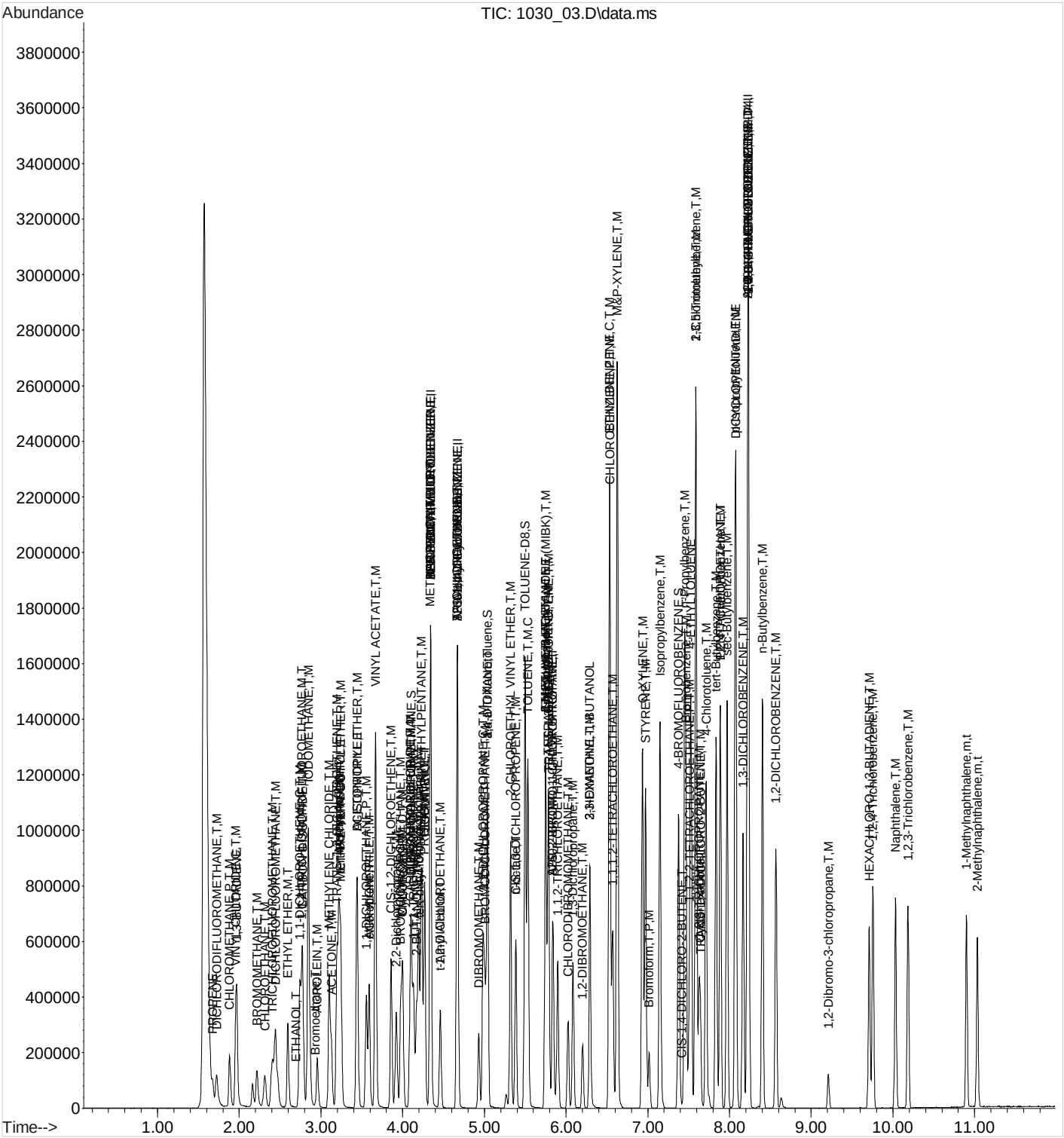
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.695	45	716	10.9607568 ppb	#	39
98)	Bromoethane	2.933	108	7524	1.6545850 ppb		100
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.222	43	267035	78.2574036 ppb	#	67
101)	ACETONITRILE	3.441	41	103244	162.8807415 ppb	#	41
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	3.238	59	1018	1.0764997 ppb	#	1
104)	chloroprene	3.589	53	286304	51.9126985 ppb	#	23
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.264	54	3133	4.3078778 ppb	#	1
107)	Ethyl Acetate	4.039	43	816	N.D.		
108)	METHACRYLONITRILE	4.338	67	1171	0.5023630 ppb	#	1
109)	Cyclohexane	3.997	84	13308	1.6808809 ppb	#	8
110)	tert-butyl formate	4.203	59	1101	5.4647566 ppb	#	9
111)	ISOBUTANOL	4.267	41	161076	557.0868262 ppb	#	1
112)	t-Amyl Alcohol	4.457	59	1289	3.6852170 ppb	#	20
113)	TERT-AMYL METHYL ETHER	4.341	73	12174	0.7120011 ppb	#	90
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.669	83	13409	0.5553004 ppb	#	50
117)	2-nitropropane	5.749	43	713803	559.3406798 ppb	#	40
118)	METHYL METHACRYLATE	5.100	41	791	N.D.		
119)	1,4-DIOXANE	5.036	88	4781	79.7357163 ppb	#	26
120)	n-octane	5.386	85	3794	0.6917195 ppb	#	28
121)	3,3-DIMETHYL-1-BUTANOL	6.290	57	97806	309.6686185 ppb	#	34
123)	ETHYL METHACRYLATE	5.749	69	6488	0.9499165 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.418	53	2660	1.2898621 ppb	#	28
125)	Cyclohexanone	7.640	55	1287	1.9568699 ppb	#	1
126)	PENTACHLOROETHANE	7.888	117	25675	5.8737526 ppb	#	19
127)	Hexachloroethane	8.540	117	1038	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 03.D
Acq On : 30 Oct 2014 8:54 am
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : soil IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 10:07:25 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Ben Baker
Date Released : 10/31/2014 2:13:05 PM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1030_01	INSTBLK	V820J21N						1	1	10/30/14 0732	"soil IS/SURR14I25028 "
2	1030_01T	INSTBLK VMS								1	10/30/14 0732	
3	1030_02	DNR ICV VMS 25 PPB 14J30895	V820J21N						1	1	10/30/14 0802	"soil IS/SURR14I25028 "
4	1030_03	ICV VMS 25 PPB 14J30895	V820J21N						1	1	10/30/14 0854	"soil IS/SURR14I25028 "
5	1030_04	DNR LCS	V820J21N	WG750857					1	1	10/30/14 0930	"soil IS/SURR14I25028/spk14J30896 "
6	1030_05	LCS	V820J21N	WG750857	V8260AP9	SS			1	1	10/30/14 0948	"soil IS/SURR14I25028/spk14J30896 "
6	1030_05-2	LCS	V820J21N	WG750857	V8260/465	SS	ERMSAZ		1	1	10/30/14 0948	"soil IS/SURR14I25028/spk14J30896 "
7	1030_06	DNR LCSD	V820J21N	WG750857					1	1	10/30/14 1037	"soil IS/SURR14I25028/spk14J30896 "
8	1030_07	LCSD	V820J21N	WG750857	V8260AP9	SS			1	1	10/30/14 1134	"soil IS/SURR14I25028/spk14J30896 "
8	1030_07-2	LCSD	V820J21N	WG750857	V8260/465	SS	ERMSAZ		1	1	10/30/14 1134	"soil IS/SURR14I25028/spk14J30896 "
9	1030_08	MS	V820J21N	WG750857	V8260AP9	SS			18.75	18.75	10/30/14 1214	"soil IS/SURR14I25028/spk14J30896 "
9	1030_08-2	MS	V820J21N	WG750857	V8260/465	SS	ERMSAZ		18.75	18.75	10/30/14 1214	"soil IS/SURR14I25028/spk14J30896 "
10	1030_09	MSD	V820J21N	WG750857	V8260AP9	SS			18.75	18.75	10/30/14 1232	"soil IS/SURR14I25028/spk14J30896 "
10	1030_09-2	MSD	V820J21N	WG750857	V8260/465	SS	ERMSAZ		18.75	18.75	10/30/14 1232	"soil IS/SURR14I25028/spk14J30896 "
11	1030_10	INSTBLK	V820J21N						1	1	10/30/14 1250	"soil IS/SURR14I25028 "
12	1030_10T	INSTBLK VMS	V820J21N							1	10/30/14 1250	
13	1030_11	BLANK	V820J21N	WG750857	V8260AP9	SS			1	1	10/30/14 1308	"soil IS/SURR14I25028 "
13	1030_11-2	BLANK	V820J21N	WG750857	V8260/465	SS	ERMSAZ		1	1	10/30/14 1308	"soil IS/SURR14I25028 "
14	1030_12	L729772-23	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	18.75	18.75	10/30/14 1403	"soil IS/SURR14I25028 "
15	1030_13	L730264-01	V820J21N	WG750857	V8260AP9	SS	ERMWCCA	CA	5	5	10/30/14 1421	"soil IS/SURR14I25028 "
16	1030_14	L730264-02	V820J21N	WG750857	V8260AP9	SS	ERMWCCA	CA	5	5	10/30/14 1439	"soil IS/SURR14I25028 "
17	1030_15	L729624-01	V820J21N	WG750857	V8260AZ	SS	CHETRAPAZ	AZ	23.75	23.75	10/30/14 1457	"soil IS/SURR14I25028 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Ben Baker
Date Released : 10/31/2014 2:13:05 PM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
18	1030_16	DNR L729738-01	V820J21N	WG750857					1	0.89	10/30/14 1515	"soil IS/SURR14I25028 "
19	1030_17	DNR L729738-02	V820J21N	WG750857					1	0.74	10/30/14 1533	"soil IS/SURR14I25028 "
20	1030_18	L729738-03	V820J21N	WG750857	V8260/465	SS	ERMSAZ	MN	24	24	10/30/14 1551	"soil IS/SURR14I25028 "
21	1030_19	DNR L729738-04	V820J21N	WG750857					1	0.81	10/30/14 1609	"soil IS/SURR14I25028 "
22	1030_20	DNR L729738-05	V820J21N	WG750857					1	0.77	10/30/14 1628	"soil IS/SURR14I25028 "
23	1030_21	L729755-01	V820J21N	WG750857	V8260AZ	SS	WESTECPAZ	AZ	23.75	23.75	10/30/14 1645	"soil IS/SURR14I25028 "
24	1030_22	L729772-17	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	2150	2150	10/30/14 1703	"soil IS/SURR14I25028 "
25	1030_23	L729772-18	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	21.25	21.25	10/30/14 1721	"soil IS/SURR14I25028 "
26	1030_24	L729772-19	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	2550	2550	10/30/14 1739	"soil IS/SURR14I25028 "
27	1030_25	L729772-20	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	2375	2375	10/30/14 1757	"soil IS/SURR14I25028 "
28	1030_26	L729772-21	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	23.75	23.75	10/30/14 1815	"soil IS/SURR14I25028 "
29	1030_27	L729772-22	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	43	43	10/30/14 1833	"soil IS/SURR14I25028 "
30	1030_28	L729772-24	V820J21N	WG750857	V8260AZ	SS	WESSOLTAZ	AZ	24.25	24.25	10/30/14 1851	"soil IS/SURR14I25028 "
31	1030_29	L729780-21	V820J21N	WG750857					5	5	10/30/14 1909	"soil IS/SURR14I25028 "
32	1030_30	L729780-22	V820J21N	WG750857					5	5	10/30/14 1926	"soil IS/SURR14I25028 "
33	1030_31	L729780-23	V820J21N	WG750857	V8260HEX	SS	GCICOLOH	OH	5	5	10/30/14 1945	"soil IS/SURR14I25028 "
34	1030_32	INSTBLK	V820J21N						1	1	10/30/14 2003	"soil IS/SURR14I25028 "
35	1030_32T	INSTBLK								1	10/30/14 2003	
36	1030_33	ICV VMS 25 PPB 14J30895	V820J21N						1	1	10/30/14 2021	"soil IS/SURR14I25028 "
37	1030_34	DNR LCS	V820J21N	WG750700					1	1	10/30/14 2113	"soil IS/SURR14I25028/SPK14J30896"
38	1030_35	LCS	V820J21N	WG750700	V8260	SS			1	1	10/30/14 2131	"soil IS/SURR14I25028/SPK14J30896"
39	1030_36	MS	V820J21N	WG750700	V8260	SS			1	1	10/30/14 2200	"soil IS/SURR14I25028/SPK14J30896"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH

Released By : Ben Baker
Date Released : 10/31/2014 2:13:05 PM

Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
40	1030_37	MSD	V820J21N	WG750700	V8260	SS			1	1	10/30/14 2218	"soil IS/SURR14I25028/SPK14J30896"
41	1030_38	LCSD	V820J21N	WG750700	V8260	SS			1	1	10/30/14 2236	"soil IS/SURR14I25028/SPK14J30896"
42	1030_39	INSTBLK	V820J21N						1	1	10/30/14 2255	"soil IS/SURR14I25028 "
43	1030_40	BLANK	V820J21N	WG750700	V8260	SS			1	1	10/30/14 2313	"soil IS/SURR14I25028 "
44	1030_41	L729568-02	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	1	10/30/14 2359	"soil IS/SURR14I25028 "
45	1030_42	L729563-01	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1.11	1.11	10/31/14 0018	"soil IS/SURR14I25028 "
46	1030_43	L729563-02	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.86	10/31/14 0036	"soil IS/SURR14I25028 "
47	1030_44	L729563-04	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1.22	1.22	10/31/14 0054	"soil IS/SURR14I25028 "
48	1030_45	L729563-05	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1.06	1.06	10/31/14 0112	"soil IS/SURR14I25028 "
49	1030_46	L729563-06	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.74	10/31/14 0130	"soil IS/SURR14I25028 "
50	1030_47	L729564-01	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.91	10/31/14 0148	"soil IS/SURR14I25028 "
51	1030_48	L729564-02	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.94	10/31/14 0206	"soil IS/SURR14I25028 "
52	1030_49	L729564-04	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.93	10/31/14 0224	"soil IS/SURR14I25028 "
53	1030_50	L729564-05	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.83	10/31/14 0242	"soil IS/SURR14I25028 "
54	1030_51	L729566-01	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	1	10/31/14 0300	"soil IS/SURR14I25028 "
55	1030_52	L729566-02	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.71	10/31/14 0318	"soil IS/SURR14I25028 "
56	1030_53	L729566-03	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	1	10/31/14 0336	"soil IS/SURR14I25028 "
57	1030_54	L729566-05	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1.02	1.02	10/31/14 0354	"soil IS/SURR14I25028 "
58	1030_55	L729566-06	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.81	10/31/14 0412	"soil IS/SURR14I25028 "
59	1030_56	L729568-01	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.97	10/31/14 0430	"soil IS/SURR14I25028 "
60	1030_57	DNR L729568-04	V820J21N	WG750700					1	0.84	10/31/14 0448	"soil IS/SURR14I25028 "
61	1030_58	L729568-05	V820J21N	WG750700	V8260	SS	URSTAZ	NM	1	0.72	10/31/14 0506	"soil IS/SURR14I25028 "
62	1030_59	L729690-02	V820J21N	WG750700	V8260	SS	PECKTN	OH	5	5	10/31/14 0524	"soil IS/SURR14I25028 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

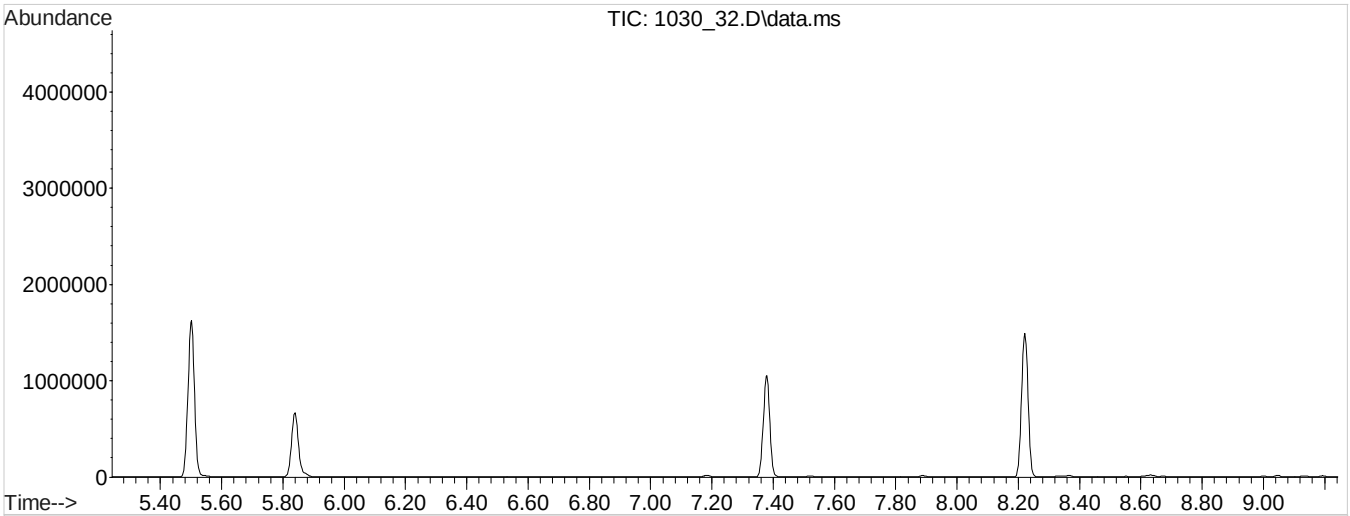
Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Ben Baker
Date Released : 10/31/2014 2:13:05 PM
Run ID : 103014
Signature : _____

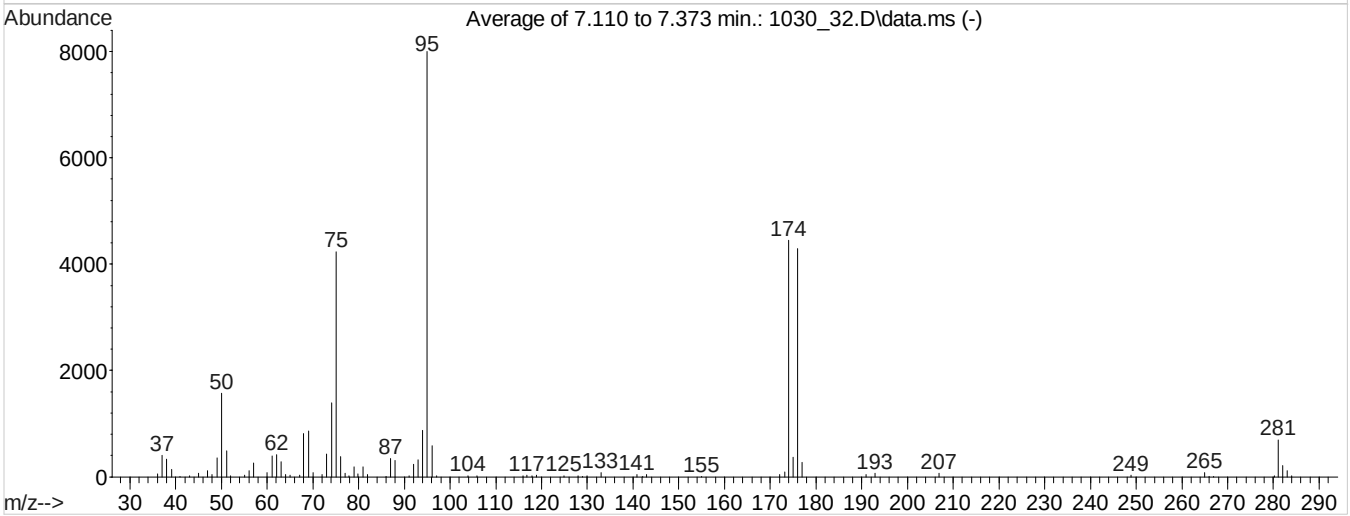
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
63	1030_60	DNR L729691-01	V820J21N	WG750700					5000	5000	10/31/14 0542	"soil IS/SURR14I25028 "

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 32.D
Acq On : 30 Oct 2014 8:03 pm
Operator : 644
Sample : INSTBLK
Misc : soil IS/SURR14I25028
ALS Vial : 32 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820J21N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Wed Oct 22 15:05:08 2014





Spectrum Information: Average of 7.110 to 7.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	1575	PASS
75	95	30	60	53.0	4239	PASS
95	95	100	100	100.0	8005	PASS
96	95	5	9	7.3	583	PASS
173	174	0.00	2	2.0	91	FAIL*
174	95	50	150	55.6	4448	PASS
175	174	5	9	8.2	363	PASS
176	174	95	101	96.7	4299	PASS
177	176	5	9	6.4	276	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 33.D
Acq On : 30 Oct 2014 8:21 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : soil IS/SURR14I25028
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:45:01 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	374162	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	722418	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	126573	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	325432	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	374162	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	722418	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	126573	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	325432	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	201757	38.6945217 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.74%		
46) a,a,a-Trifluorotoluene	5.039	146	400913	41.1414195 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.85%		
50) TOLUENE-D8	5.502	98	951662	41.4369599 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.59%		
68) 4-BROMOFLUOROBENZENE	7.380	95	374691	39.9411427 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.85%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3007472	No Calib	
3) PROPENE	1.673	41	32722	42.5088322 ppb	99
4) DICHLORODIFLUOROMETHANE	1.724	85	162567	27.6881063 ppb	98
5) CHLOROMETHANE	1.882	50	231751	28.8968398 ppb	100
6) VINYL CHLORIDE	1.956	62	238621	27.6792121 ppb	99
7) 1,3-BUTADIENE	1.968	39	156645	29.7182447 ppb	98
8) BROMOMETHANE	2.216	94	93088	30.9659385 ppb	99
9) CHLOROETHANE	2.309	66	43874	26.9406872 ppb	98
10) TRICHLOROFLUOROMETHANE	2.402	101	189919	28.3614443 ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	311336	27.3905102 ppb	99
12) ETHYL ETHER	2.595	59	168311	24.6374274 ppb	99
13) ACROLEIN	2.959	56	136274	161.4788956 ppb	99
14) 1,1-DICHLOROETHENE	2.740	61	275905	28.4461825 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	132997	28.4641271 ppb	99
16) ACETONE	3.129	43	214294	127.8947677 ppb	100
17) IODOMETHANE	2.846	142	1288119	134.5932052 ppb	100
18) CARBON DISULFIDE	2.775	76	565595	25.4929479 ppb	100
19) METHYLENE CHLORIDE	3.103	84	210234	25.4031777 ppb	98
20) ACRYLONITRILE	3.592	53	291482	153.8751008 ppb	99
21) n-Hexane	3.219	56	180294	26.9053687 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.197	96	195663	28.9829239 ppb	98
23) METHYL TERT-BUTYL ETHER	3.242	73	540746	29.0423736 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	362452	28.7707169 ppb	99
25) VINYL ACETATE	3.669	43	1472877	165.2331262 ppb	99
26) DI-ISOPROPYL ETHER	3.444	45	659406	30.1517102 ppb	100
27) 2,2-Dichloropropane	3.923	77	221449	29.7335769 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.862	96	211352	27.8125844 ppb	98
29) 2-BUTANONE (MEK)	4.171	72	100154	143.0098107 ppb	91
30) BROMOCHLOROMETHANE	3.978	130	111608	27.1263658 ppb	91
31) TETRAHYDROFURAN	4.103	42	44277	27.0332125 ppb	93
32) CHLOROFORM	4.000	83	343743	28.1733793 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.136	97	255311	28.4602364 ppb	99
35) CARBON TETRACHLORIDE	4.094	117	202924	27.5704476 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 33.D
Acq On : 30 Oct 2014 8:21 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : soil IS/SURR14I25028
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:45:01 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	269013	29.2407158 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	801535	30.2593123 ppb		99
38) HEPTANE	4.271	43	310482	31.4160998 ppb	#	95
39) BENZENE	4.345	78	816712	27.3196505 ppb		99
40) 1,2-DICHLOROETHANE	4.463	62	257100	27.4235178 ppb		100
42) TRICHLOROETHENE	4.669	130	175466	24.0984179 ppb		99
43) 1,2-DICHLOROPROPANE	4.988	62	145863	28.2408919 ppb		99
44) DIBROMOMETHANE	4.933	93	100777	26.3781036 ppb		98
45) BROMODICHLOROMETHANE	5.010	83	255884	26.5302828 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	453318	144.3939721 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	331832	29.2771380 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.750	58	306099	150.0601872 ppb		99
51) TOLUENE	5.534	91	867358	27.2752975 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	68703	29.3294144 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.901	97	153962	25.3662435 ppb		99
55) TETRACHLOROETHENE	5.782	164	120485	25.3543152 ppb		98
56) 1,3-Dichloropropane	6.087	76	293646	25.5277706 ppb		100
57) 2-HEXANONE	6.293	58	287865	137.2826150 ppb		98
58) CHLORODIBROMOMETHANE	6.026	129	148541	25.3039427 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	144523	25.3331910 ppb		97
60) CHLOROBENZENE	6.537	112	529982	25.2447276 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	154821	24.5120823 ppb		100
62) ETHYLBENZENE	6.531	106	299459	26.3892785 ppb		98
63) M&P-XYLENE	6.627	106	754150	53.6259808 ppb		98
64) O-XYLENE	6.936	106	359379	26.3759624 ppb		99
65) STYRENE	6.975	104	546972	24.1739762 ppb		99
66) Bromoform	7.020	173	77620	24.3871259 ppb		99
67) Isopropylbenzene	7.151	105	916526	26.9704320 ppb		100
69) Bromobenzene	7.467	77	437421	25.5631389 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	193679	25.8468374 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.631	110	55497	25.8774189 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.643	53	58229	28.1215542 ppb		98
73) n-Propylbenzene	7.454	91	1141792	26.0379985 ppb		99
74) 4-ETHYLTOLUENE	7.528	105	946862	26.5107205 ppb		100
75) 2-Chlorotoluene	7.592	126	206955	25.1384610 ppb		96
76) 4-Chlorotoluene	7.714	91	723970	26.5526317 ppb		99
77) 1,3,5-Trimethylbenzene	7.589	105	800260	26.5096187 ppb		99
78) tert-Butylbenzene	7.836	119	631214	26.2615279 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	805804	26.2656105 ppb		99
80) sec-Butylbenzene	7.971	105	1027637	26.9817227 ppb		99
81) 1,3-DICHLOROBENZENE	8.168	146	387907	25.0011631 ppb		100
82) p-Isopropyltoluene	8.071	119	822325	27.5326883 ppb		99
83) DICYCLOPENTADIENE	8.078	66	944247	27.0516686 ppb		99
85) 1,4-DICHLOROBENZENE	8.235	146	381136	25.0044440 ppb		100
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	828054	26.1670966 ppb		100
87) 1,2-DICHLOROBENZENE	8.569	146	354079	25.3353003 ppb		98
88) n-Butylbenzene	8.402	91	833270	28.5478981 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.213	157	27465	23.7261756 ppb		92
90) 1,2,4-Trichlorobenzene	9.756	180	214992	26.9061945 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	105118	24.8766198 ppb		98
92) Naphthalene	10.032	128	566759	28.0878892 ppb		99
93) 1,2,3-Trichlorobenzene	10.184	180	194195	25.8440350 ppb		99
94) 1-Methylnaphthalene	10.901	142	313547	26.5006740 ppb		100
95) 2-Methylnaphthalene	11.036	142	261265	26.9325486 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 33.D
Acq On : 30 Oct 2014 8:21 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : soil IS/SURR14I25028
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:45:01 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

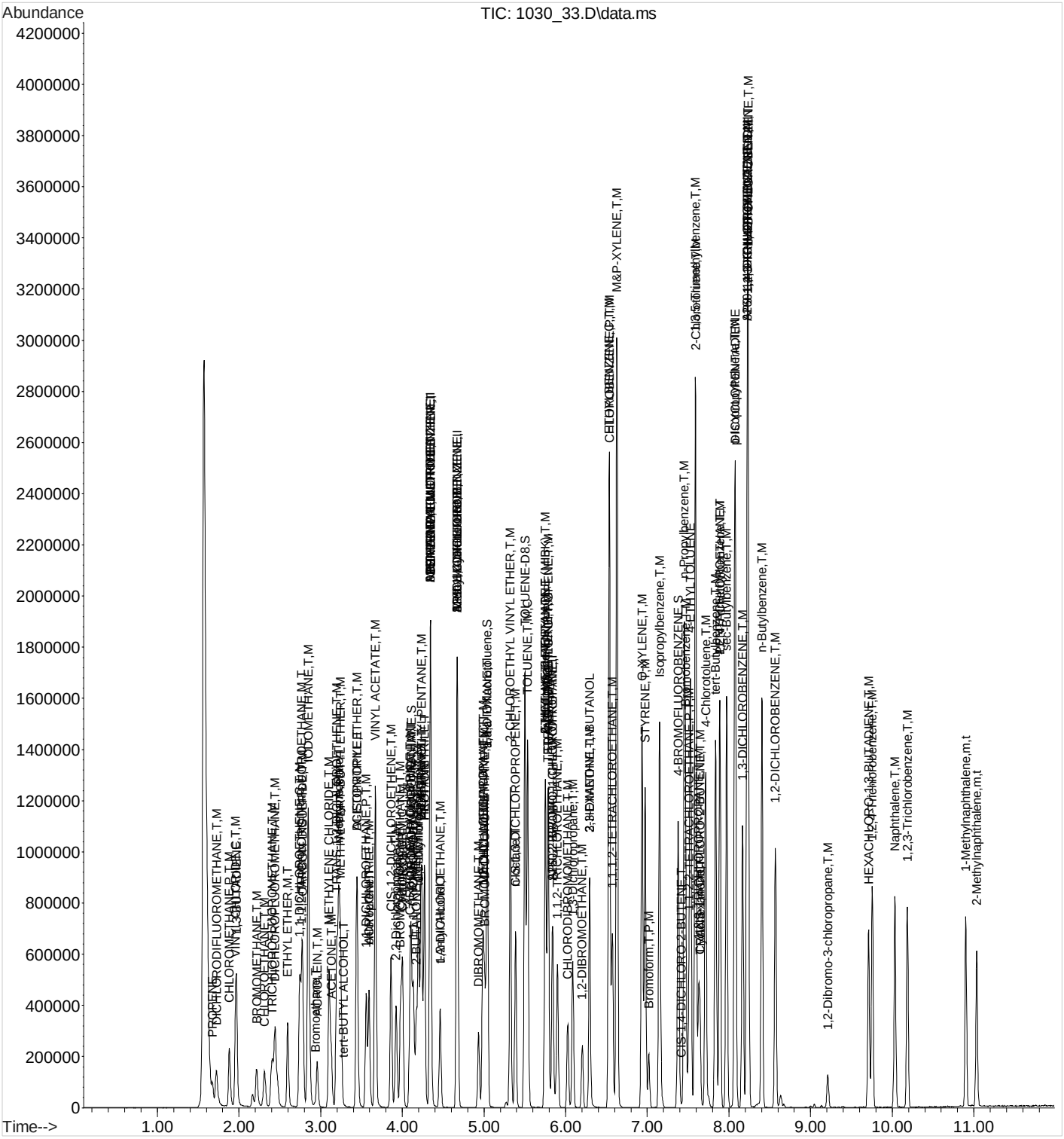
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	2.936	108	9450	1.9394638 ppb		91
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.222	43	309621	84.6831957 ppb	#	66
101)	ACETONITRILE	3.444	41	110166	162.2041937 ppb	#	38
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	3.280	59	876	0.8645295 ppb	#	62
104)	chloroprene	3.592	53	291482	49.3250475 ppb	#	23
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.271	54	3203	4.1102620 ppb	#	1
107)	Ethyl Acetate	4.036	43	1314	N.D.		
108)	METHACRYLONITRILE	4.341	67	1322	0.5292998 ppb	#	1
109)	Cyclohexane	4.000	84	13298	1.5675452 ppb	#	10
110)	tert-butyl formate	4.200	59	1569	5.5515392 ppb	#	9
111)	ISOBUTANOL	4.232	41	199626	644.3454096 ppb	#	7
112)	t-Amyl Alcohol	4.463	59	1510	4.0289946 ppb	#	20
113)	TERT-AMYL METHYL ETHER	4.345	73	13756	0.7508430 ppb	#	89
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.669	83	12887	0.4326299 ppb	#	55
117)	2-nitropropane	5.750	43	729567	538.9967892 ppb	#	40
118)	METHYL METHACRYLATE	4.988	41	116780	23.6804821 ppb	#	10
119)	1,4-DIOXANE	5.039	88	5432	85.4116038 ppb	#	32
120)	n-octane	5.386	85	4131	0.7100859 ppb	#	32
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	101944	304.3100732 ppb	#	35
123)	ETHYL METHACRYLATE	5.750	69	6208	0.8573043 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	2914	1.3327844 ppb	#	12
125)	Cyclohexanone	7.643	55	1476	2.1167933 ppb	#	1
126)	PENTACHLOROETHANE	7.888	117	27094	5.8463796 ppb	#	18
127)	Hexachloroethane	8.544	117	1258	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 33.D
Acq On : 30 Oct 2014 8:21 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : soil IS/SURR14I25028
ALS Vial : 33 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:45:01 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 35.D
Acq On : 30 Oct 2014 9:31 pm
Operator : 644
Sample : LCS 1x WG750700
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:45:41 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.341	168	371339	40.0000000 ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	717591	40.0000000 ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	125279	40.0000000 ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	319622	40.0000000 ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	371339	40.0000000 ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	717591	40.0000000 ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	125279	40.0000000 ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	319622	40.0000000 ppb		0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	201512	38.9413407 ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.35%			
46) a,a,a-Trifluorotoluene	5.039	146	396171	40.9282702 ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.32%			
50) TOLUENE-D8	5.499	98	938818	41.1526816 ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.88%			
68) 4-BROMOFLUOROBENZENE	7.376	95	366992	39.5245212 ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.81%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	2279221	No Calib		
3) PROPENE	1.672	41	29393	38.4744449 ppb		98
4) DICHLORODIFLUOROMETHANE	1.724	85	140659	24.1389015 ppb		97
5) CHLOROMETHANE	1.881	50	207508	26.0707001 ppb		99
6) VINYL CHLORIDE	1.955	62	211775	24.7519185 ppb		99
7) 1,3-BUTADIENE	1.968	39	149115	28.5047387 ppb		97
8) BROMOMETHANE	2.216	94	90169	30.1869957 ppb		98
9) CHLOROETHANE	2.312	66	39418	24.3885027 ppb		98
10) TRICHLOROFLUOROMETHANE	2.406	101	179890	27.0679936 ppb		100
11) DICHLOROFLUOROMETHANE	2.441	67	297423	26.3654049 ppb		99
12) ETHYL ETHER	2.595	59	161245	23.7825396 ppb		100
13) ACROLEIN	2.955	56	127446	152.1661634 ppb		99
14) 1,1-DICHLOROETHENE	2.740	61	260908	27.1044708 ppb		97
15) 1,1,2-TRICHLOROTRIFLUO...	2.766	101	134632	29.0331018 ppb		98
16) ACETONE	3.129	43	208472	125.3659551 ppb		100
17) IODOMETHANE	2.846	142	1206831	127.0582067 ppb		100
18) CARBON DISULFIDE	2.775	76	528369	23.9961154 ppb		99
19) METHYLENE CHLORIDE	3.103	84	203219	24.7422116 ppb		98
20) ACRYLONITRILE	3.592	53	281117	149.5315496 ppb		100
21) n-Hexane	3.219	56	164620	24.7530880 ppb		98
22) TRANS-1,2-DICHLOROETHENE	3.196	96	182038	27.1696885 ppb		97
23) METHYL TERT-BUTYL ETHER	3.242	73	511034	27.6552573 ppb	#	100
24) 1,1-DICHLOROETHANE	3.557	63	342101	27.3617356 ppb		99
25) VINYL ACETATE	3.669	43	1503693	169.9726056 ppb		98
26) DI-ISOPROPYL ETHER	3.441	45	636024	29.3036470 ppb		99
27) 2,2-Dichloropropane	3.923	77	209415	28.3315499 ppb		100
28) CIS-1,2-DICHLOROETHENE	3.859	96	200701	26.6117623 ppb		95
29) 2-BUTANONE (MEK)	4.171	72	99155	142.6596869 ppb		96
30) BROMOCHLOROMETHANE	3.978	130	106872	26.1727490 ppb		90
31) TETRAHYDROFURAN	4.103	42	43050	26.4838879 ppb		93
32) CHLOROFORM	4.000	83	329468	27.2086775 ppb		99
34) 1,1,1-TRICHLOROETHANE	4.135	97	246635	27.7021068 ppb		99
35) CARBON TETRACHLORIDE	4.094	117	193370	26.4721134 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 35.D
Acq On : 30 Oct 2014 9:31 pm
Operator : 644
Sample : LCS 1x WG750700
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:45:41 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.196	75	260534	28.5343678 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	732106	27.8483612 ppb		100
38) HEPTANE	4.270	43	276047	28.1441403 ppb	#	100
39) BENZENE	4.344	78	797743	26.8879888 ppb		100
40) 1,2-DICHLOROETHANE	4.463	62	250856	26.9609192 ppb		99
42) TRICHLOROETHENE	4.669	130	167453	23.1526157 ppb		98
43) 1,2-DICHLOROPROPANE	4.987	62	139353	27.1619637 ppb		99
44) DIBROMOMETHANE	4.933	93	97797	25.7702868 ppb		99
45) BROMODICHLOROMETHANE	5.007	83	248635	25.9521048 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	430726	138.1206975 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	317252	28.1790469 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.749	58	292237	144.2282551 ppb		97
51) TOLUENE	5.534	91	830377	26.2880271 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	64049	27.5265396 ppb		100
54) 1,1,2-TRICHLOROETHANE	5.901	97	147082	24.4830171 ppb		97
55) TETRACHLOROETHENE	5.782	164	112183	23.8511184 ppb		99
56) 1,3-Dichloropropane	6.087	76	278120	24.4277696 ppb		98
57) 2-HEXANONE	6.293	58	278805	134.3352637 ppb		100
58) CHLORODIBROMOMETHANE	6.026	129	146411	25.1987127 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	138613	24.5482020 ppb		100
60) CHLOROBENZENE	6.537	112	510260	24.5563542 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	152237	24.3519279 ppb		98
62) ETHYLBENZENE	6.531	106	289833	25.8048164 ppb		99
63) M&P-XYLENE	6.627	106	722973	51.9400528 ppb		99
64) O-XYLENE	6.936	106	345546	25.6226642 ppb		97
65) STYRENE	6.974	104	539169	24.0763562 ppb		99
66) Bromoform	7.019	173	75685	24.0247896 ppb		98
67) Isopropylbenzene	7.148	105	894109	26.5825338 ppb		100
69) Bromobenzene	7.466	77	433931	25.6211148 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	187805	25.3218144 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.627	110	53978	25.4291026 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.646	53	54841	26.7588934 ppb		96
73) n-Propylbenzene	7.450	91	1106467	25.4930539 ppb		98
74) 4-ETHYLTOLUENE	7.531	105	922425	26.0932818 ppb		99
75) 2-Chlorotoluene	7.592	126	201152	24.6859539 ppb		96
76) 4-Chlorotoluene	7.714	91	708094	26.2386031 ppb		99
77) 1,3,5-Trimethylbenzene	7.589	105	777841	26.0331067 ppb		99
78) tert-Butylbenzene	7.836	119	619561	26.0429535 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	785636	25.8727298 ppb		100
80) sec-Butylbenzene	7.971	105	1001129	26.5572303 ppb		98
81) 1,3-DICHLOROBENZENE	8.167	146	377361	24.5726733 ppb		100
82) p-Isopropyltoluene	8.071	119	804428	27.2116639 ppb		100
83) DICYCLOPENTADIENE	8.077	66	941538	27.2526723 ppb		99
85) 1,4-DICHLOROBENZENE	8.235	146	371132	24.7907248 ppb		98
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	807496	25.9812983 ppb		99
87) 1,2-DICHLOROBENZENE	8.569	146	346770	25.2633533 ppb		99
88) n-Butylbenzene	8.402	91	809079	28.2229828 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.212	157	27947	24.5814175 ppb		99
90) 1,2,4-Trichlorobenzene	9.756	180	212231	27.0434683 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	105327	25.3791799 ppb		98
92) Naphthalene	10.032	128	538384	27.1666704 ppb		100
93) 1,2,3-Trichlorobenzene	10.187	180	193230	26.1830613 ppb		99
94) 1-Methylnaphthalene	10.900	142	312942	26.9303324 ppb		99
95) 2-Methylnaphthalene	11.035	142	266845	28.0077924 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 35.D
Acq On : 30 Oct 2014 9:31 pm
Operator : 644
Sample : LCS 1x WG750700
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:45:41 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

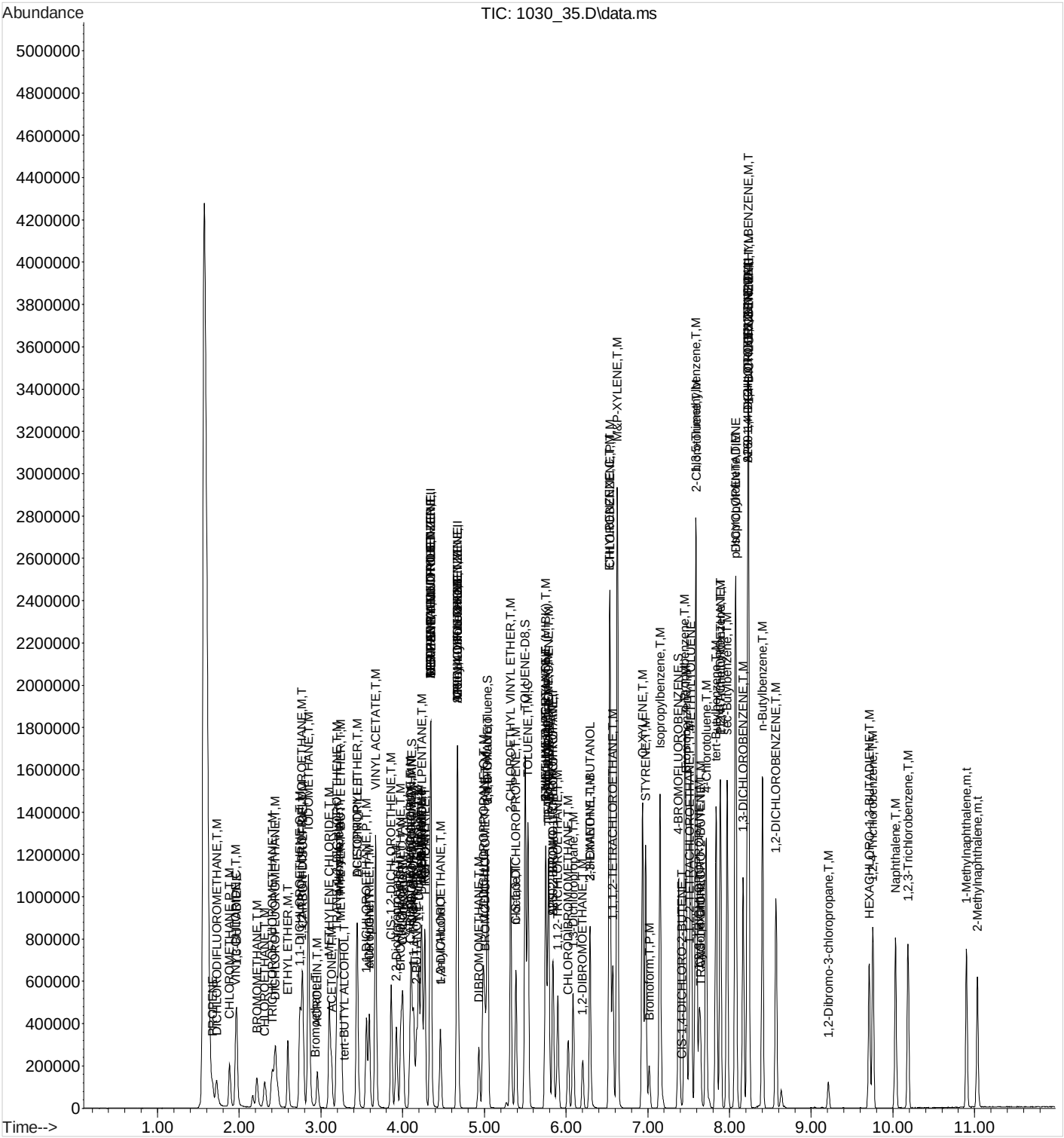
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	2.933	108	9249	1.9126424 ppb		99
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.222	43	292422	80.5871853 ppb	#	66
101)	ACETONITRILE	3.441	41	107521	159.5133027 ppb	#	38
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	3.287	59	971	0.9655707 ppb	#	62
104)	chloroprene	3.592	53	281117	47.9327113 ppb	#	23
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.274	54	3294	4.2591729 ppb	#	1
107)	Ethyl Acetate	4.036	43	929	N.D.		
108)	METHACRYLONITRILE	4.341	67	1372	0.5534948 ppb	#	1
109)	Cyclohexane	4.000	84	12756	1.5150863 ppb	#	15
110)	tert-butyl formate	4.229	59	548	5.3248574 ppb	#	1
111)	ISOBUTANOL	4.232	41	184719	600.7618110 ppb	#	11
112)	t-Amyl Alcohol	4.463	59	1264	3.3982547 ppb	#	20
113)	TERT-AMYL METHYL ETHER	4.341	73	12801	0.7040281 ppb	#	89
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.669	83	13194	0.4689834 ppb	#	48
117)	2-nitropropane	5.749	43	707943	526.5393872 ppb	#	40
118)	METHYL METHACRYLATE	5.103	41	975	N.D.		
119)	1,4-DIOXANE	5.036	88	5262	83.2951155 ppb	#	26
120)	n-octane	5.386	85	4219	0.7300906 ppb	#	32
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	95915	288.2390148 ppb	#	34
123)	ETHYL METHACRYLATE	5.753	69	5651	0.7884450 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	2740	1.2661458 ppb	#	12
125)	Cyclohexanone	7.640	55	1164	1.6865836 ppb	#	1
126)	PENTACHLOROETHANE	7.888	117	28227	6.1537721 ppb	#	17
127)	Hexachloroethane	8.540	117	1175	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 35.D
Acq On : 30 Oct 2014 9:31 pm
Operator : 644
Sample : LCS 1x WG750700
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 35 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:45:41 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 36.D
Acq On : 30 Oct 2014 10:00 pm
Operator : 644
Sample : MS 1x WG750700 L729568-02
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:10 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	353866	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	705852	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	130815	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	338533	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	353866	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	705852	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	130815	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	338533	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	208984	42.3793948 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 105.95%		
46) a,a,a-Trifluorotoluene	5.039	146	379451	39.8528829 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 99.63%		
50) TOLUENE-D8	5.499	98	934902	41.6625794 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.16%		
68) 4-BROMOFLUOROBENZENE	7.380	95	386131	39.8258838 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.56%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	1033378	No Calib	
3) PROPENE	1.676	41	30684	42.1475320 ppb	97
4) DICHLORODIFLUOROMETHANE	1.727	85	144286	25.9839934 ppb	99
5) CHLOROMETHANE	1.881	50	206982	27.2886565 ppb	100
6) VINYL CHLORIDE	1.959	62	221959	27.2231680 ppb	99
7) 1,3-BUTADIENE	1.968	39	157586	31.6114990 ppb	98
8) BROMOMETHANE	2.219	94	86514	30.4037554 ppb	96
9) CHLOROETHANE	2.315	66	39335	25.5388557 ppb	98
10) TRICHLOROFLUOROMETHANE	2.409	101	182666	28.8428711 ppb	97
11) DICHLOROFLUOROMETHANE	2.444	67	284594	26.4738657 ppb	100
12) ETHYL ETHER	2.595	59	152609	23.6202149 ppb	98
13) ACROLEIN	2.959	56	118108	147.9799661 ppb	97
14) 1,1-DICHLOROETHENE	2.743	61	258573	28.1882709 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.766	101	130571	29.5476943 ppb	99
16) ACETONE	3.129	43	191528	120.8636989 ppb	100
17) IODOMETHANE	2.849	142	1173266	129.6237186 ppb	99
18) CARBON DISULFIDE	2.778	76	566653	27.0055192 ppb	99
19) METHYLENE CHLORIDE	3.103	84	188126	24.0355882 ppb	98
20) ACRYLONITRILE	3.592	53	259751	144.9888747 ppb	98
21) n-Hexane	3.219	56	167461	26.4236127 ppb	92
22) TRANS-1,2-DICHLOROETHENE	3.196	96	178367	27.9362969 ppb	97
23) METHYL TERT-BUTYL ETHER	3.241	73	481009	27.3157316 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	326057	27.3662036 ppb	99
25) VINYL ACETATE	3.669	43	1407903	167.0029778 ppb	99
26) DI-ISOPROPYL ETHER	3.444	45	588281	28.4423004 ppb	99
27) 2,2-Dichloropropane	3.923	77	205506	29.1755318 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.862	96	190714	26.5361798 ppb	98
29) 2-BUTANONE (MEK)	4.171	72	89982	135.8544961 ppb	94
30) BROMOCHLOROMETHANE	3.978	130	99157	25.4824106 ppb	91
31) TETRAHYDROFURAN	4.103	42	41271	26.6431337 ppb	92
32) CHLOROFORM	4.000	83	304682	26.4041821 ppb	98
34) 1,1,1-TRICHLOROETHANE	4.135	97	240972	28.4024890 ppb	99
35) CARBON TETRACHLORIDE	4.094	117	199329	28.6352996 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 36.D
Acq On : 30 Oct 2014 10:00 pm
Operator : 644
Sample : MS 1x WG750700 L729568-02
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:10 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.196	75	252092	28.9730781 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	692557	27.6447666 ppb		100
38) HEPTANE	4.270	43	269689	28.8535939 ppb	#	95
39) BENZENE	4.344	78	746362	26.3983367 ppb		100
40) 1,2-DICHLOROETHANE	4.463	62	225608	25.4446466 ppb		100
42) TRICHLOROETHENE	4.669	130	161272	22.6688473 ppb		98
43) 1,2-DICHLOROPROPANE	4.984	62	129306	25.6228157 ppb		99
44) DIBROMOMETHANE	4.933	93	91043	24.3895402 ppb		97
45) BROMODICHLOROMETHANE	5.007	83	222159	23.5742328 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	394768	128.6953780 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	288152	26.0199767 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.749	58	274463	137.7089884 ppb		98
51) TOLUENE	5.534	91	766574	24.6717583 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	58208	25.4322788 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.901	97	133379	21.2624644 ppb		98
55) TETRACHLOROETHENE	5.782	164	106055	21.5940240 ppb		99
56) 1,3-Dichloropropane	6.087	76	257149	21.6300322 ppb		99
57) 2-HEXANONE	6.293	58	260785	120.3352361 ppb		99
58) CHLORODIBROMOMETHANE	6.026	129	132006	21.7580040 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	125915	21.3557057 ppb		99
60) CHLOROBENZENE	6.537	112	456327	21.0314523 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	137746	21.1014773 ppb		99
62) ETHYLBENZENE	6.531	106	265970	22.6780823 ppb		99
63) M&P-XYLENE	6.627	106	662651	45.5917118 ppb		99
64) O-XYLENE	6.936	106	318891	22.6454737 ppb		99
65) STYRENE	6.971	104	494907	21.1975266 ppb		99
66) Bromoform	7.019	173	70302	21.3716568 ppb		98
67) Isopropylbenzene	7.148	105	833320	23.7267605 ppb		100
69) Bromobenzene	7.466	77	393919	22.2743483 ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	172250	22.2416824 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.627	110	48868	22.0475097 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.643	53	51705	24.1610642 ppb		98
73) n-Propylbenzene	7.454	91	1033607	22.8065489 ppb		99
74) 4-ETHYLTOLUENE	7.527	105	851286	23.0618352 ppb		99
75) 2-Chlorotoluene	7.592	126	182607	21.4616798 ppb		94
76) 4-Chlorotoluene	7.714	91	635427	22.5494625 ppb		99
77) 1,3,5-Trimethylbenzene	7.589	105	719499	23.0614226 ppb		98
78) tert-Butylbenzene	7.836	119	576969	23.2262649 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	727418	22.9417030 ppb		100
80) sec-Butylbenzene	7.971	105	925622	23.5151167 ppb		100
81) 1,3-DICHLOROBENZENE	8.167	146	337478	21.0456136 ppb		99
82) p-Isopropyltoluene	8.071	119	737391	23.8883682 ppb		99
83) DICYCLOPENTADIENE	8.077	66	855833	23.7236224 ppb		99
85) 1,4-DICHLOROBENZENE	8.235	146	336923	21.2484441 ppb		86
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	734730	22.3194710 ppb		100
87) 1,2-DICHLOROBENZENE	8.569	146	308740	21.2362599 ppb		97
88) n-Butylbenzene	8.402	91	730887	24.0712074 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.212	157	23710	19.6896926 ppb		90
90) 1,2,4-Trichlorobenzene	9.756	180	192259	23.1300143 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	92707	21.0904600 ppb		98
92) Naphthalene	10.032	128	505745	24.0941451 ppb		99
93) 1,2,3-Trichlorobenzene	10.187	180	178936	22.8917633 ppb		97
94) 1-Methylnaphthalene	10.900	142	290452	23.5986895 ppb		98
95) 2-Methylnaphthalene	11.035	142	249155	24.6902263 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 36.D
Acq On : 30 Oct 2014 10:00 pm
Operator : 644
Sample : MS 1x WG750700 L729568-02
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:10 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

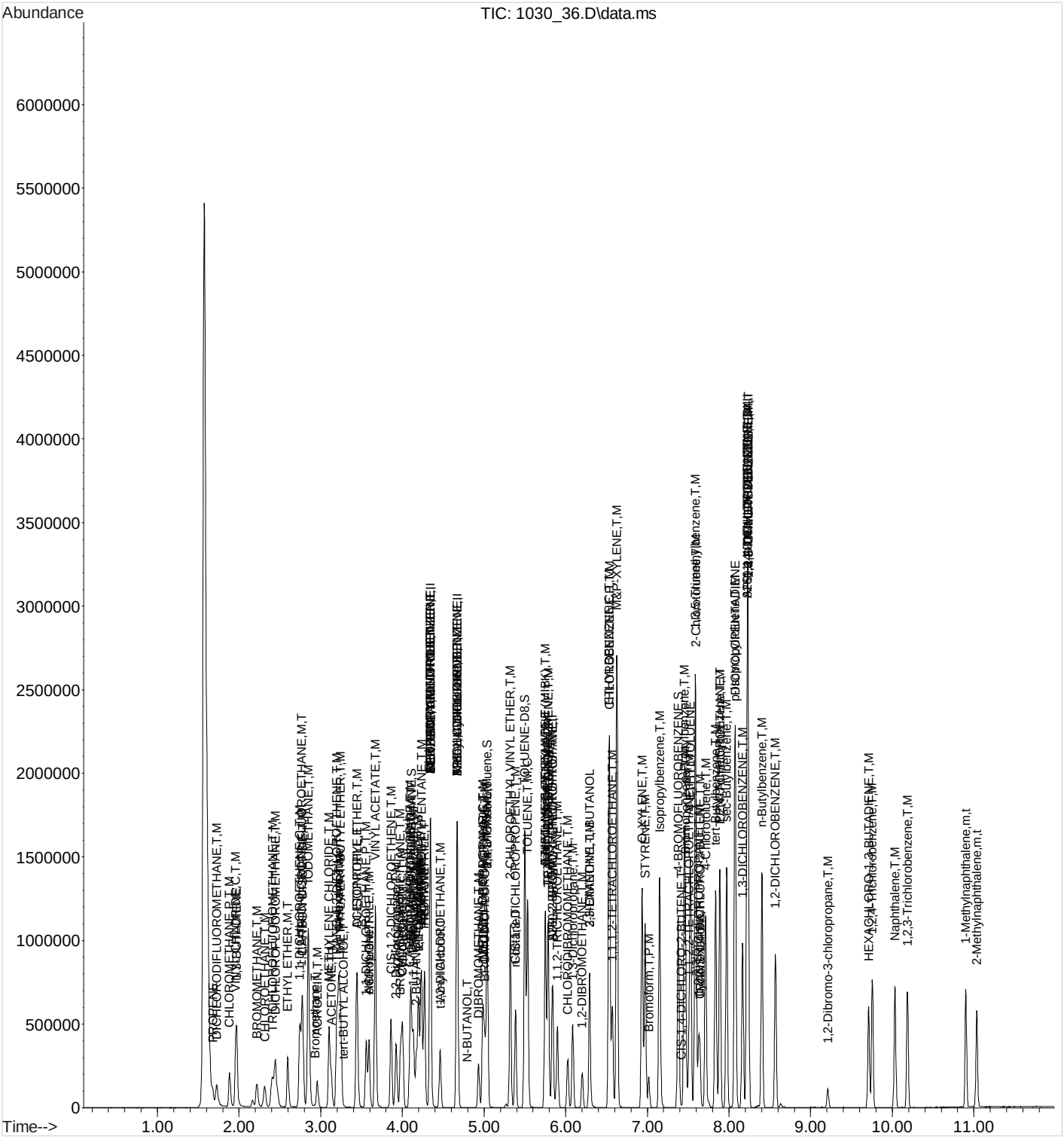
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	2.933	108	9956	2.1605067 ppb		98
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.222	43	269884	78.0485446 ppb	#	66
101)	ACETONITRILE	3.441	41	100247	156.0654337 ppb	#	39
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	3.280	59	1027	1.0716846 ppb	#	62
104)	chloroprene	3.592	53	259751	46.4765455 ppb	#	23
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.267	54	2877	3.9036715 ppb	#	1
107)	Ethyl Acetate	4.042	43	514	N.D.		
108)	METHACRYLONITRILE	4.341	67	1282	0.5427242 ppb	#	1
109)	Cyclohexane	4.000	84	11587	1.4441942 ppb	#	12
110)	tert-butyl formate	4.196	59	854	5.4030643 ppb	#	9
111)	ISOBUTANOL	4.232	41	177318	605.1670864 ppb	#	11
112)	t-Amyl Alcohol	4.466	59	1260	3.5547669 ppb	#	20
113)	TERT-AMYL METHYL ETHER	4.341	73	12028	0.6941786 ppb	#	85
115)	N-BUTANOL	4.798	56	543	3.7539897 ppb	#	21
116)	Methyl Cyclohexane	4.672	83	12680	0.4409518 ppb	#	49
117)	2-nitropropane	5.749	43	659148	498.4009299 ppb	#	40
118)	METHYL METHACRYLATE	4.987	41	102511	21.2748961 ppb	#	10
119)	1,4-DIOXANE	5.039	88	4999	80.4479833 ppb	#	32
120)	n-octane	5.383	85	3572	0.6284085 ppb	#	37
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	91079	278.2581035 ppb	#	34
123)	ETHYL METHACRYLATE	5.749	69	5094	0.6806530 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	2665	1.1793728 ppb	#	12
125)	Cyclohexanone	7.643	55	1047	1.4528551 ppb	#	1
126)	PENTACHLOROETHANE	7.888	117	23512	4.9089317 ppb	#	18
127)	Hexachloroethane	8.540	117	1184	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 36.D
Acq On : 30 Oct 2014 10:00 pm
Operator : 644
Sample : MS 1x WG750700 L729568-02
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 36 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:10 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 37.D
Acq On : 30 Oct 2014 10:18 pm
Operator : 644
Sample : MSD 1x WG750700 L729568-02
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:28 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	366440	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	728727	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	131244	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	341545	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	366440	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	728727	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	131244	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	341545	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	210129	41.1494154 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.87%		
46) a,a,a-Trifluorotoluene	5.039	146	383220	38.9853105 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 97.46%		
50) TOLUENE-D8	5.499	98	959595	41.4206425 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.55%		
68) 4-BROMOFLUOROBENZENE	7.380	95	388620	39.9515826 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.88%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	221306	No Calib	
3) PROPENE	1.669	41	30220	40.0858039 ppb	98
4) DICHLORODIFLUOROMETHANE	1.724	85	140358	24.4092726 ppb	96
5) CHLOROMETHANE	1.881	50	207625	26.4341399 ppb	100
6) VINYL CHLORIDE	1.955	62	221908	26.2829933 ppb	99
7) 1,3-BUTADIENE	1.968	39	150949	29.2410970 ppb	99
8) BROMOMETHANE	2.216	94	91986	31.2576428 ppb	98
9) CHLOROETHANE	2.312	66	39822	24.9678594 ppb	100
10) TRICHLOROFLUOROMETHANE	2.406	101	180690	27.5518554 ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	286312	25.7197732 ppb	99
12) ETHYL ETHER	2.595	59	151059	22.5780414 ppb	99
13) ACROLEIN	2.955	56	114073	138.0201305 ppb	99
14) 1,1-DICHLOROETHENE	2.740	61	259526	27.3213464 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.766	101	124136	27.1275502 ppb	99
16) ACETONE	3.129	43	191828	116.8992080 ppb	98
17) IODOMETHANE	2.846	142	1164601	124.2513488 ppb	100
18) CARBON DISULFIDE	2.775	76	563299	25.9244936 ppb	99
19) METHYLENE CHLORIDE	3.103	84	188454	23.2513009 ppb	98
20) ACRYLONITRILE	3.592	53	252309	136.0022695 ppb	97
21) n-Hexane	3.219	56	156281	23.8133590 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.196	96	178445	26.9894899 ppb	99
23) METHYL TERT-BUTYL ETHER	3.241	73	474903	26.0435696 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	324036	26.2633578 ppb	99
25) VINYL ACETATE	3.669	43	1385349	158.6889325 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	590055	27.5491596 ppb	99
27) 2,2-Dichloropropane	3.923	77	202009	27.6949736 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.862	96	186723	25.0893613 ppb	97
29) 2-BUTANONE (MEK)	4.171	72	88194	128.5859083 ppb	97
30) BROMOCHLOROMETHANE	3.978	130	99494	24.6916427 ppb	90
31) TETRAHYDROFURAN	4.106	42	40049	24.9670914 ppb	89
32) CHLOROFORM	4.000	83	298634	24.9920070 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.135	97	244189	27.7940527 ppb	98
35) CARBON TETRACHLORIDE	4.094	117	200850	27.8637165 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 37.D
Acq On : 30 Oct 2014 10:18 pm
Operator : 644
Sample : MSD 1x WG750700 L729568-02
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:28 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.196	75	252354	28.0079763 ppb		98
37)	2,2,4-TRIMETHYLPENTANE	4.232	57	652446	25.1499971 ppb		100
38)	HEPTANE	4.270	43	253070	26.1464848 ppb	#	97
39)	BENZENE	4.344	78	750742	25.6421076 ppb		100
40)	1,2-DICHLOROETHANE	4.463	62	227651	24.7940489 ppb		99
42)	TRICHLOROETHENE	4.669	130	166543	22.6749134 ppb		99
43)	1,2-DICHLOROPROPANE	4.984	62	126885	24.3538288 ppb		100
44)	DIBROMOMETHANE	4.933	93	89098	23.1192530 ppb		97
45)	BROMODICHLOROMETHANE	5.010	83	226245	23.2542017 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.322	63	368529	116.3701156 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.386	75	288625	25.2445713 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.749	58	261935	127.2977724 ppb		99
51)	TOLUENE	5.534	91	774951	24.1584490 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.788	110	60702	25.6894253 ppb		96
54)	1,1,2-TRICHLOROETHANE	5.901	97	132643	21.0760182 ppb		98
55)	TETRACHLOROETHENE	5.782	164	109511	22.2248206 ppb		98
56)	1,3-Dichloropropane	6.087	76	255069	21.3849428 ppb		97
57)	2-HEXANONE	6.293	58	250120	115.0367793 ppb		99
58)	CHLORODIBROMOMETHANE	6.026	129	128874	21.1723359 ppb		98
59)	1,2-DIBROMOETHANE	6.203	107	127088	21.4841952 ppb		99
60)	CHLOROBENZENE	6.537	112	467824	21.4908544 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.573	133	137593	21.0091409 ppb		99
62)	ETHYLBENZENE	6.531	106	268075	22.7828513 ppb		99
63)	M&P-XYLENE	6.627	106	671447	46.0458894 ppb		98
64)	O-XYLENE	6.936	106	316578	22.4077354 ppb		97
65)	STYRENE	6.971	104	490154	20.9288215 ppb		99
66)	Bromoform	7.019	173	69161	20.9560711 ppb		99
67)	Isopropylbenzene	7.151	105	827777	23.4918968 ppb		100
69)	Bromobenzene	7.466	77	379366	21.3813228 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.508	83	172629	22.2177587 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.630	110	48638	21.8720139 ppb		100
72)	TRANS-1,4-DICHLORO-2-B...	7.643	53	50049	23.3107909 ppb		98
73)	n-Propylbenzene	7.450	91	1007790	22.1642103 ppb		99
74)	4-ETHYLTOLUENE	7.527	105	831323	22.4474109 ppb		99
75)	2-Chlorotoluene	7.592	126	183428	21.4877038 ppb		97
76)	4-Chlorotoluene	7.714	91	626134	22.1470509 ppb		99
77)	1,3,5-Trimethylbenzene	7.589	105	709070	22.6528630 ppb		99
78)	tert-Butylbenzene	7.836	119	577658	23.1779902 ppb		99
79)	1,2,4-Trimethylbenzene	7.888	105	708948	22.2861002 ppb		100
80)	sec-Butylbenzene	7.971	105	913533	23.1321392 ppb		99
81)	1,3-DICHLOROBENZENE	8.167	146	329207	20.4627159 ppb		99
82)	p-Isopropyltoluene	8.071	119	718107	23.1876053 ppb		99
83)	DICYCLOPENTADIENE	8.077	66	857693	23.6974670 ppb		99
85)	1,4-DICHLOROBENZENE	8.235	146	328749	20.5501026 ppb		84
86)	1,2,3-TRIMETHYLBENZENE	8.232	105	728866	21.9460767 ppb		100
87)	1,2-DICHLOROBENZENE	8.569	146	304560	20.7640025 ppb		98
88)	n-Butylbenzene	8.402	91	699392	22.8308129 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.212	157	24345	20.0387321 ppb		97
90)	1,2,4-Trichlorobenzene	9.756	180	180036	21.4684977 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.711	225	85205	19.2128452 ppb		99
92)	Naphthalene	10.032	128	472120	22.2938667 ppb		99
93)	1,2,3-Trichlorobenzene	10.183	180	162714	20.6328643 ppb		100
94)	1-Methylnaphthalene	10.900	142	260328	20.9646432 ppb		98
95)	2-Methylnaphthalene	11.035	142	229093	22.5019607 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 37.D
Acq On : 30 Oct 2014 10:18 pm
Operator : 644
Sample : MSD 1x WG750700 L729568-02
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:28 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

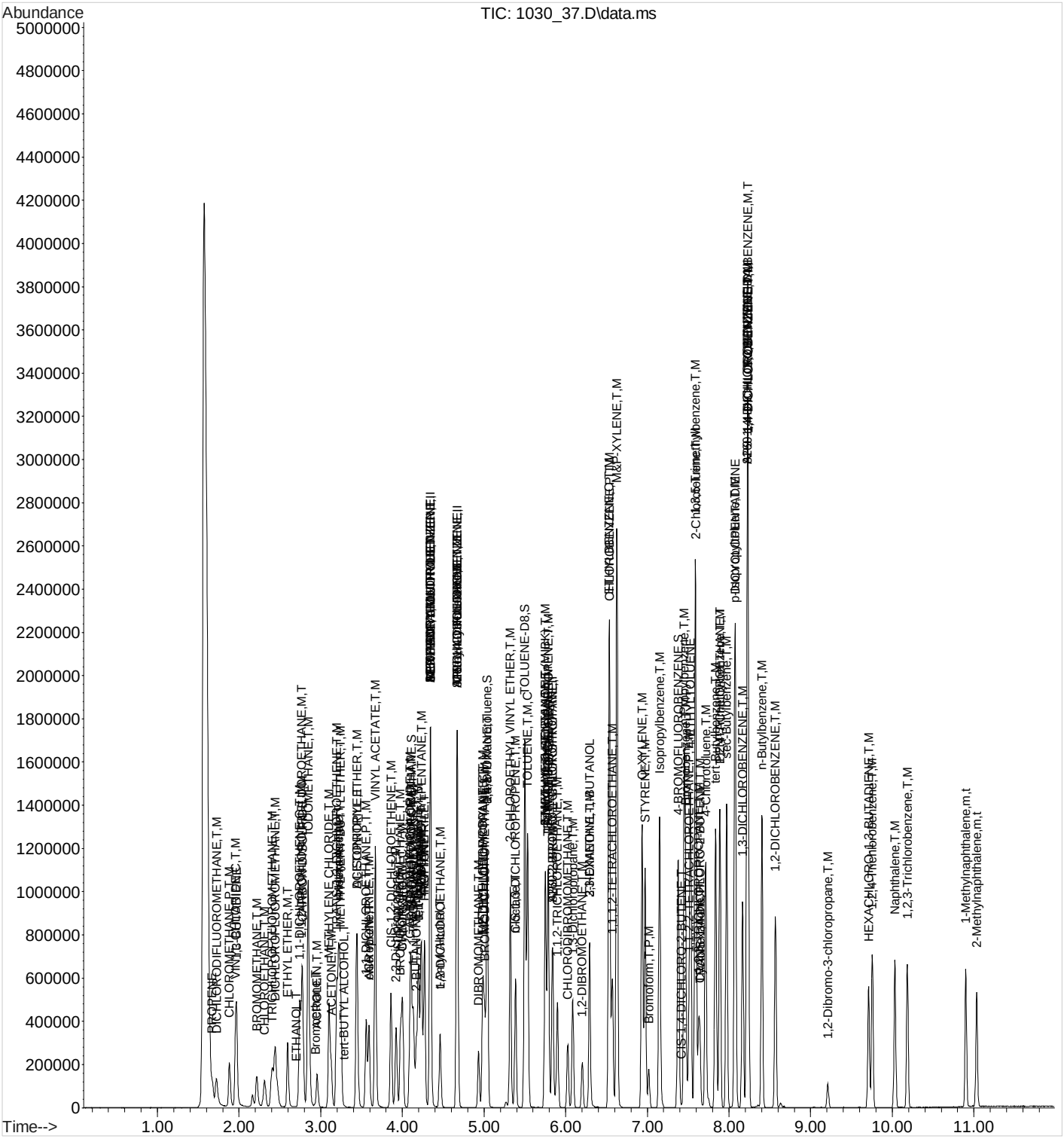
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.698	45	1041	15.1860433 ppb #	39
98)	Bromoethane	2.936	108	9087	1.9042642 ppb	96
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.222	43	262889	73.4169009 ppb #	66
101)	ACETONITRILE	3.441	41	100427	150.9808238 ppb #	38
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.287	59	677	0.6822149 ppb #	62
104)	chloroprene	3.592	53	252309	43.5958668 ppb #	23
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.267	54	2887	3.7828242 ppb #	1
107)	Ethyl Acetate	4.039	43	812	N.D.	
108)	METHACRYLONITRILE	4.341	67	1221	0.4991634 ppb #	1
109)	Cyclohexane	4.000	84	11951	1.4384501 ppb #	10
110)	tert-butyl formate	4.196	59	1025	5.4350810 ppb #	9
111)	ISOBUTANOL	4.232	41	164526	542.2417801 ppb #	9
112)	t-Amyl Alcohol	4.460	59	1172	3.1930385 ppb #	20
113)	TERT-AMYL METHYL ETHER	4.344	73	11987	0.6680736 ppb #	87
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.669	83	11968	0.3386934 ppb #	53
117)	2-nitropropane	5.749	43	625327	457.9856546 ppb #	40
118)	METHYL METHACRYLATE	4.984	41	105198	21.1472184 ppb #	10
119)	1,4-DIOXANE	5.039	88	5346	83.3316091 ppb #	26
120)	n-octane	5.386	85	3716	0.6332207 ppb #	30
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	89747	265.5817915 ppb #	37
123)	ETHYL METHACRYLATE	5.749	69	5017	0.6681731 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	2355	1.0387783 ppb #	12
125)	Cyclohexanone	7.643	55	981	1.3568215 ppb #	1
126)	PENTACHLOROETHANE	7.888	117	23042	4.7950780 ppb #	18
127)	Hexachloroethane	8.544	117	914	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 37.D
Acq On : 30 Oct 2014 10:18 pm
Operator : 644
Sample : MSD 1x WG750700 L729568-02
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 37 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:28 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 38.D
Acq On : 30 Oct 2014 10:36 pm
Operator : 644
Sample : LCSD 1x WG750700
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:45 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	368322	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	718571	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	125163	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	324125	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	368322	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	718571	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	125163	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	324125	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	200636	39.0896472 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.72%		
46) a,a,a-Trifluorotoluene	5.039	146	393192	40.5651119 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.41%		
50) TOLUENE-D8	5.502	98	942243	41.2464855 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.12%		
68) 4-BROMOFLUOROBENZENE	7.380	95	371245	40.0196188 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.05%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	2662296	No Calib	
3) PROPENE	1.676	41	29939	39.5101467 ppb	99
4) DICHLORODIFLUOROMETHANE	1.727	85	141796	24.5333503 ppb	94
5) CHLOROMETHANE	1.885	50	202690	25.6739727 ppb	99
6) VINYL CHLORIDE	1.959	62	214626	25.2906162 ppb	98
7) 1,3-BUTADIENE	1.971	39	148894	28.6956345 ppb	100
8) BROMOMETHANE	2.219	94	90666	30.6226174 ppb	97
9) CHLOROETHANE	2.315	66	39872	24.8714713 ppb	98
10) TRICHLOROFLUOROMETHANE	2.406	101	182924	27.7499776 ppb	99
11) DICHLOROFLUOROMETHANE	2.444	67	294898	26.3557042 ppb	99
12) ETHYL ETHER	2.595	59	154859	23.0277404 ppb	99
13) ACROLEIN	2.959	56	121178	145.8675085 ppb	98
14) 1,1-DICHLOROETHENE	2.743	61	266438	27.9056797 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.769	101	144109	31.3313528 ppb	96
16) ACETONE	3.132	43	195134	118.3062617 ppb	96
17) IODOMETHANE	2.849	142	1185754	125.8617500 ppb	99
18) CARBON DISULFIDE	2.778	76	524134	23.9987625 ppb	99
19) METHYLENE CHLORIDE	3.103	84	198923	24.4175514 ppb	98
20) ACRYLONITRILE	3.592	53	257745	138.2225424 ppb	99
21) n-Hexane	3.222	56	165387	25.0721202 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.196	96	183547	27.6193083 ppb	98
23) METHYL TERT-BUTYL ETHER	3.245	73	488004	26.6252806 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	344804	27.8038218 ppb	100
25) VINYL ACETATE	3.669	43	1504641	171.4729222 ppb	98
26) DI-ISOPROPYL ETHER	3.444	45	628856	29.2107214 ppb	99
27) 2,2-Dichloropropane	3.923	77	213937	29.1804075 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.862	96	206264	27.5734075 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	92962	134.8450503 ppb	97
30) BROMOCHLOROMETHANE	3.978	130	104208	25.7293827 ppb	87
31) TETRAHYDROFURAN	4.103	42	38000	23.5686705 ppb	96
32) CHLOROFORM	4.004	83	330122	27.4860015 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.135	97	251652	28.4971469 ppb	98
35) CARBON TETRACHLORIDE	4.094	117	200241	27.6372881 ppb	89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 38.D
Acq On : 30 Oct 2014 10:36 pm
Operator : 644
Sample : LCSD 1x WG750700
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:45 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.196	75	259306	28.6325031 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	768692	29.4795563 ppb		98
38) HEPTANE	4.270	43	282699	29.0584290 ppb	#	97
39) BENZENE	4.344	78	788839	26.8056655 ppb		99
40) 1,2-DICHLOROETHANE	4.463	62	239919	25.9966716 ppb		99
42) TRICHLOROETHENE	4.669	130	167782	23.1664664 ppb		99
43) 1,2-DICHLOROPROPANE	4.987	62	139330	27.1204428 ppb		100
44) DIBROMOMETHANE	4.933	93	95384	25.1001633 ppb		98
45) BROMODICHLOROMETHANE	5.007	83	244189	25.4532778 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	400400	128.2209649 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.386	75	314221	27.8717626 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.749	58	274345	135.2133258 ppb		99
51) TOLUENE	5.534	91	817386	25.8414676 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	63550	27.2748341 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.901	97	142492	23.7409561 ppb		99
55) TETRACHLOROETHENE	5.782	164	113775	24.2120107 ppb		98
56) 1,3-Dichloropropane	6.087	76	272533	23.9592382 ppb		97
57) 2-HEXANONE	6.293	58	262978	126.8268501 ppb		99
58) CHLORODIBROMOMETHANE	6.026	129	139424	24.0184236 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	135664	24.0482045 ppb		99
60) CHLOROBENZENE	6.537	112	510053	24.5691417 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	151366	24.2350423 ppb		99
62) ETHYLBENZENE	6.531	106	287079	25.5833069 ppb		97
63) M&P-XYLENE	6.627	106	722080	51.9239758 ppb		99
64) O-XYLENE	6.936	106	349336	25.9277048 ppb		100
65) STYRENE	6.971	104	554455	24.7739152 ppb		99
66) Bromoform	7.019	173	72569	23.0570229 ppb		98
67) Isopropylbenzene	7.151	105	905900	26.9580505 ppb		99
69) Bromobenzene	7.466	77	425054	25.1202390 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	183151	24.7172005 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.630	110	50802	23.9550659 ppb		96
72) TRANS-1,4-DICHLORO-2-B...	7.646	53	53047	25.9075250 ppb		98
73) n-Propylbenzene	7.454	91	1128520	26.0252537 ppb		99
74) 4-ETHYLTOLUENE	7.531	105	924529	26.1770373 ppb		100
75) 2-Chlorotoluene	7.592	126	202387	24.8605358 ppb		96
76) 4-Chlorotoluene	7.714	91	717221	26.6014376 ppb		98
77) 1,3,5-Trimethylbenzene	7.589	105	787651	26.3858634 ppb		100
78) tert-Butylbenzene	7.836	119	629501	26.4853003 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	798527	26.3216309 ppb		99
80) sec-Butylbenzene	7.971	105	1031872	27.3981273 ppb		99
81) 1,3-DICHLOROBENZENE	8.167	146	375494	24.4737607 ppb		99
82) p-Isopropyltoluene	8.071	119	818236	27.7044043 ppb		100
83) DICYCLOPENTADIENE	8.077	66	956728	27.7180095 ppb		99
85) 1,4-DICHLOROBENZENE	8.235	146	378931	24.9600294 ppb		100
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	823342	26.1231097 ppb		98
87) 1,2-DICHLOROBENZENE	8.569	146	345195	24.7992250 ppb		99
88) n-Butylbenzene	8.402	91	842734	28.9885594 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.212	157	25852	22.4228086 ppb		97
90) 1,2,4-Trichlorobenzene	9.756	180	215680	27.1011411 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	111808	26.5665331 ppb		98
92) Naphthalene	10.032	128	523695	26.0583451 ppb		99
93) 1,2,3-Trichlorobenzene	10.187	180	191968	25.6506777 ppb		98
94) 1-Methylnaphthalene	10.900	142	290194	24.6258043 ppb		98
95) 2-Methylnaphthalene	11.032	142	248378	25.7073357 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 38.D
Acq On : 30 Oct 2014 10:36 pm
Operator : 644
Sample : LCSD 1x WG750700
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:45 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

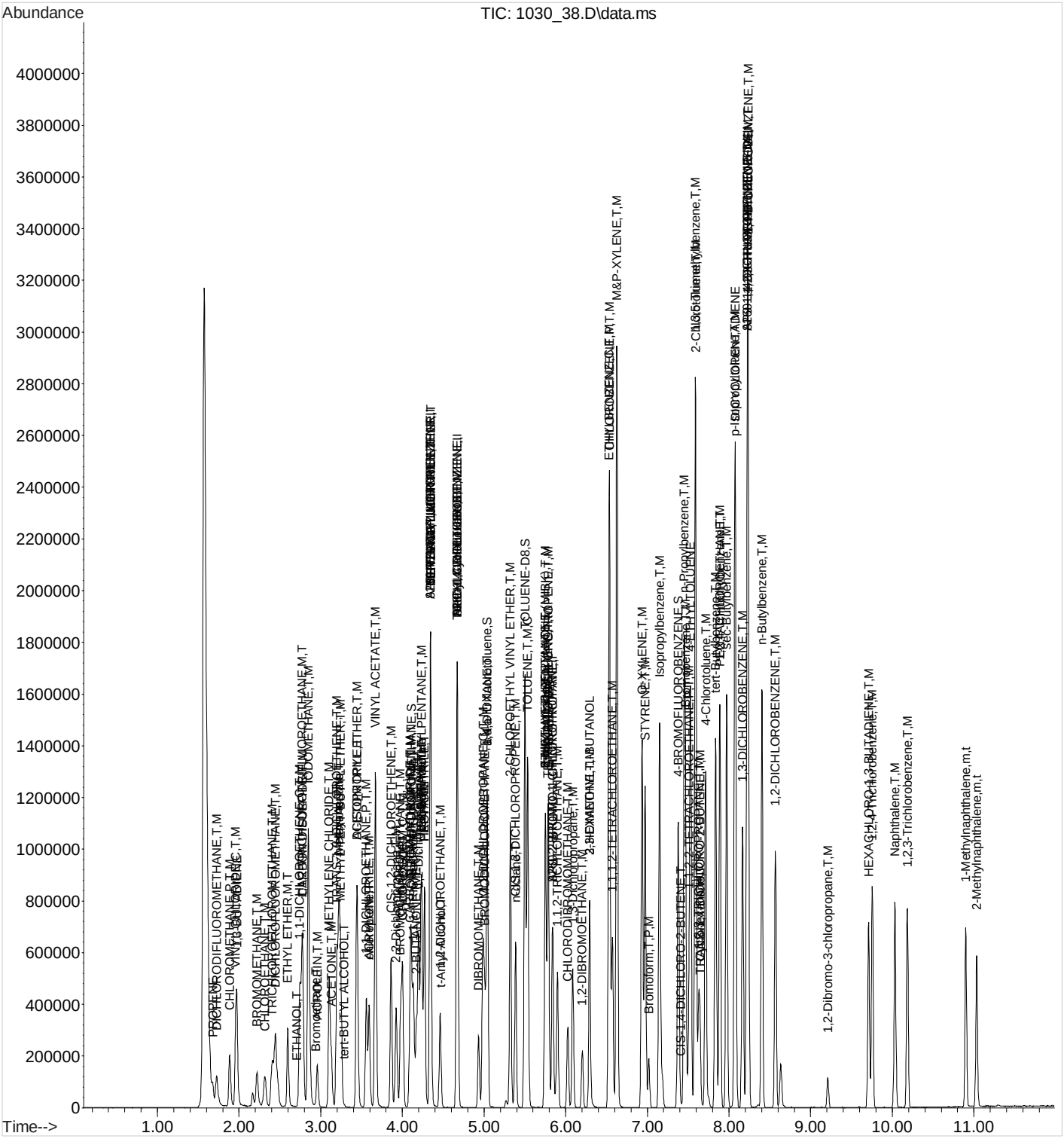
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.705	45	615	8.9257401 ppb #	28
98)	Bromoethane	2.939	108	9733	2.0292176 ppb	96
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.222	43	277812	77.1880107 ppb #	65
101)	ACETONITRILE	3.444	41	106793	159.7310338 ppb #	39
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.287	59	1034	1.0366408 ppb #	62
104)	chloroprene	3.592	53	257745	44.3075808 ppb #	23
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.270	54	3206	4.1793438 ppb #	1
107)	Ethyl Acetate	4.032	43	611	N.D.	
108)	METHACRYLONITRILE	4.344	67	1330	0.5409461 ppb #	1
109)	Cyclohexane	4.000	84	13090	1.5674922 ppb #	8
110)	tert-butyl formate	4.232	59	535	5.3229216 ppb #	1
111)	ISOBUTANOL	4.232	41	187597	615.1195658 ppb #	6
112)	t-Amyl Alcohol	4.470	59	1412	3.8272466 ppb #	20
113)	TERT-AMYL METHYL ETHER	4.344	73	12080	0.6698166 ppb #	87
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.672	83	12420	0.3958396 ppb #	51
117)	2-nitropropane	5.749	43	653852	485.6454513 ppb #	40
118)	METHYL METHACRYLATE	5.106	41	871	N.D.	
119)	1,4-DIOXANE	5.039	88	5629	88.9830396 ppb #	26
120)	n-octane	5.389	85	3688	0.6373316 ppb #	34
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	88134	264.4947232 ppb #	35
123)	ETHYL METHACRYLATE	5.753	69	5558	0.7761880 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	2572	1.1896150 ppb #	26
125)	Cyclohexanone	7.643	55	908	1.3168705 ppb #	1
126)	PENTACHLOROETHANE	7.891	117	27701	6.0446957 ppb #	17
127)	Hexachloroethane	8.547	117	1244	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 38.D
Acq On : 30 Oct 2014 10:36 pm
Operator : 644
Sample : LCSD 1x WG750700
Misc : soil IS/SURR14I25028/SPK14J30896
ALS Vial : 38 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 31 13:46:45 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 40.D
Acq On : 30 Oct 2014 11:13 pm
Operator : 644
Sample : BLANK 1X WG750700
Misc : soil IS/SURR14I25028
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 09 13:32:30 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

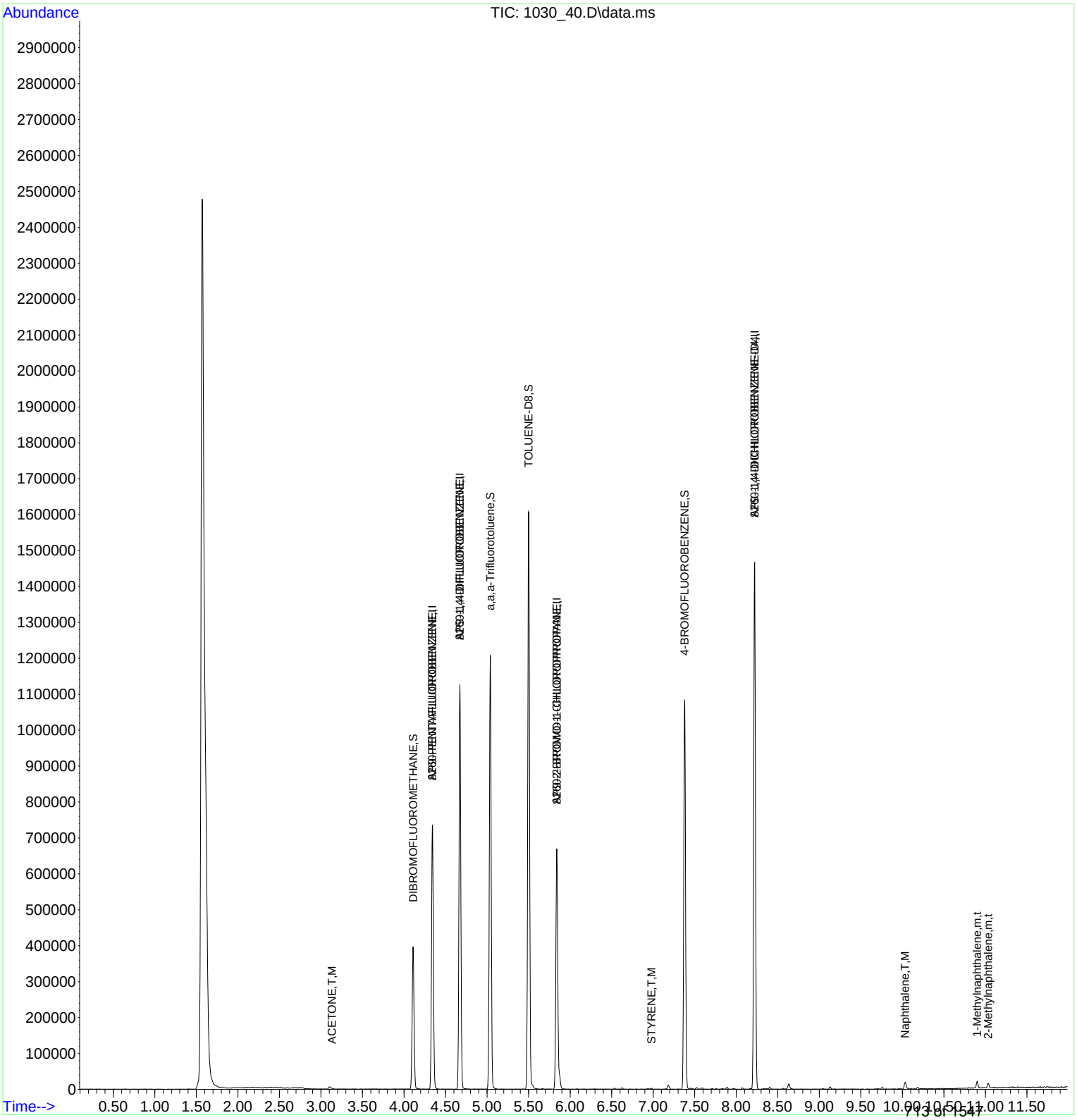
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	359335	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	710990	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	116745	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	322770	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	359335	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	710990	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	116745	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	322770	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	200190	39.9782159 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.95%		
46) a,a,a-Trifluorotoluene	5.039	146	396089	41.2997079 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.25%		
50) TOLUENE-D8	5.499	98	922129	40.7964058 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.99%		
68) 4-BROMOFLUOROBENZENE	7.380	95	354911	41.0175266 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.54%		
Target Compounds					Qvalue
16) ACETONE	3.132	43	2852	1.7723621 ppb #	84
65) STYRENE	6.981	104	1043	0.3216295 ppb #	72
92) Naphthalene	10.032	128	9621	0.4807375 ppb	99
94) 1-Methylnaphthalene	10.900	142	8442	0.7193938 ppb	96
95) 2-Methylnaphthalene	11.032	142	6277	0.6524022 ppb	93

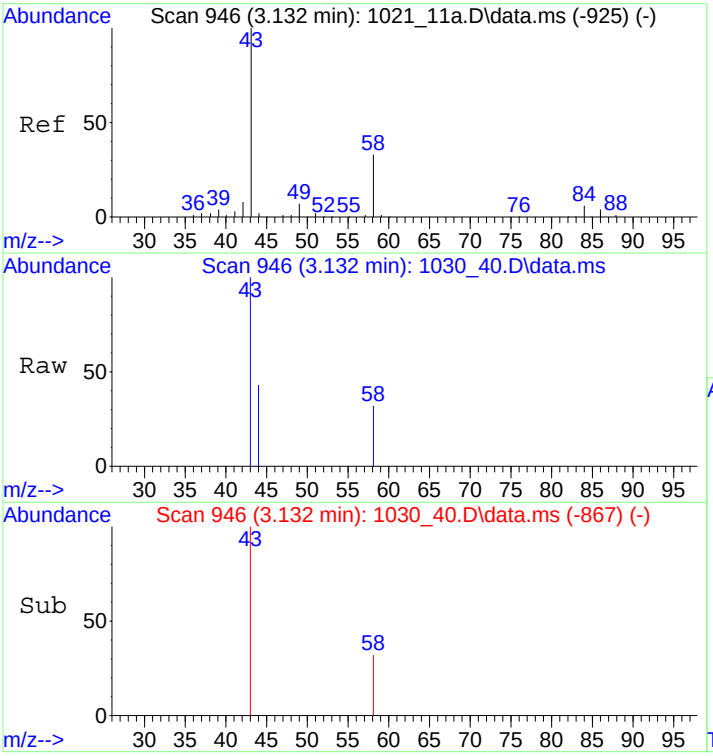
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 40.D
Acq On : 30 Oct 2014 11:13 pm
Operator : 644
Sample : BLANK 1X WG750700
Misc : soil IS/SURR14I25028
ALS Vial : 40 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 09 13:32:30 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

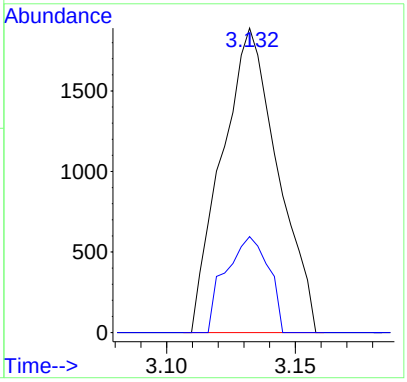


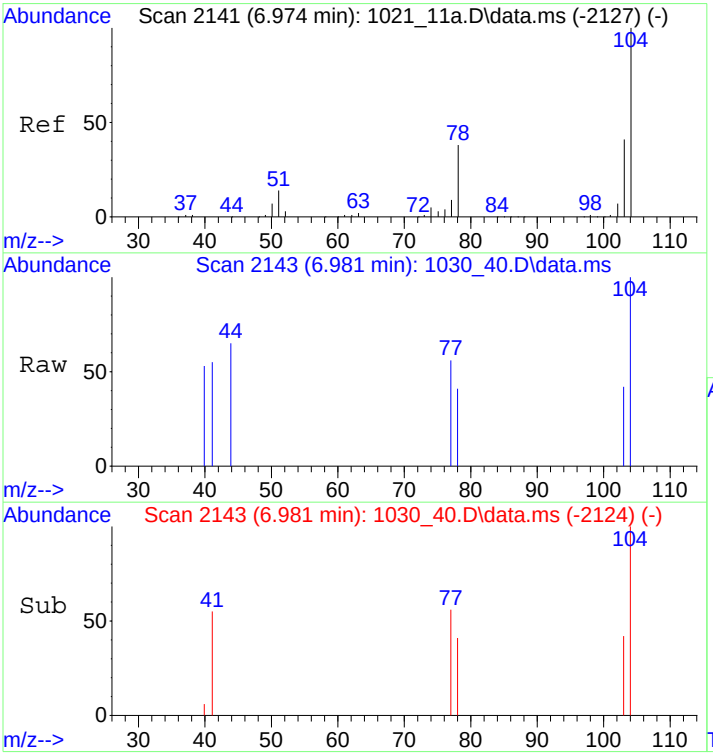


#16
ACETONE
Concen: 1.7723621 ppb
RT: 3.132 min Scan# 946
Delta R.T. 0.003 min
Lab File: 1030 40.D
Acq: 30 Oct 2014 11:13 pm

Tgt Ion: 43 Resp: 2852

Ion	Ratio	Lower	Upper
43	100		
58	24.3	26.7	40.1#

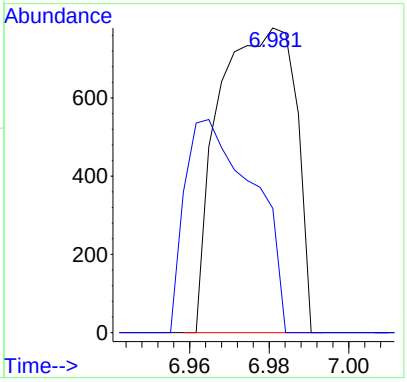


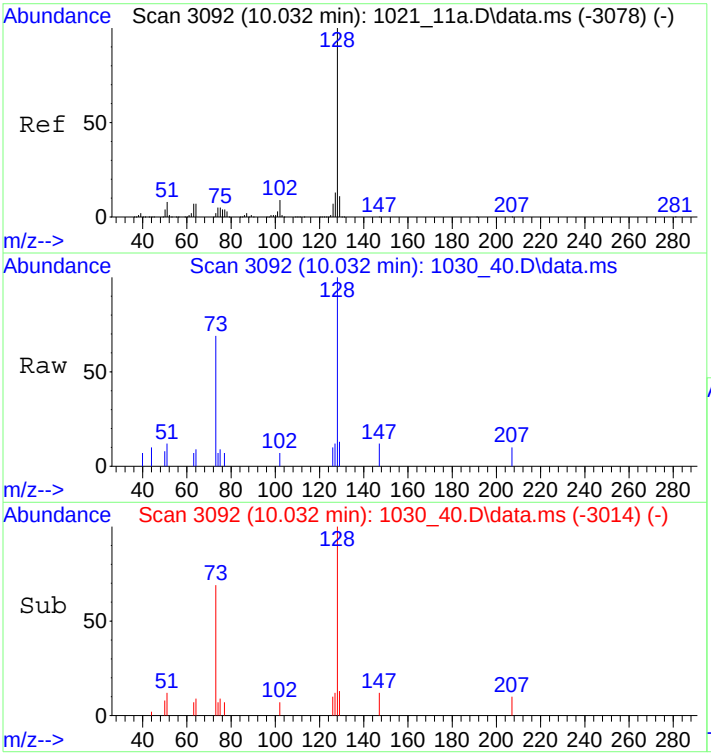


#65
STYRENE
Concen: 0.3216295 ppb
RT: 6.981 min Scan# 2143
Delta R.T. 0.007 min
Lab File: 1030_40.D
Acq: 30 Oct 2014 11:13 pm

Tgt Ion:104 Resp: 1043

Ion	Ratio	Lower	Upper
104	100		
78	63.0	35.6	53.4#

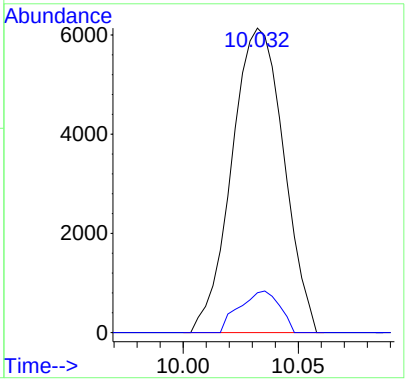


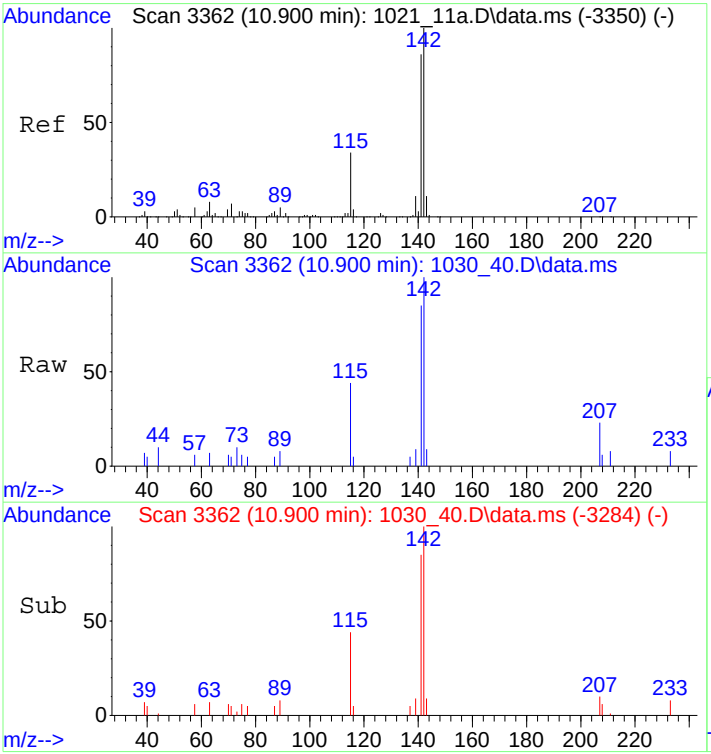


#92
Naphthalene
Concen: 0.4807375 ppb
RT: 10.032 min Scan# 3092
Delta R.T. -0.000 min
Lab File: 1030 40.D
Acq: 30 Oct 2014 11:13 pm

Tgt Ion:128 Resp: 9621

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.7	13.1

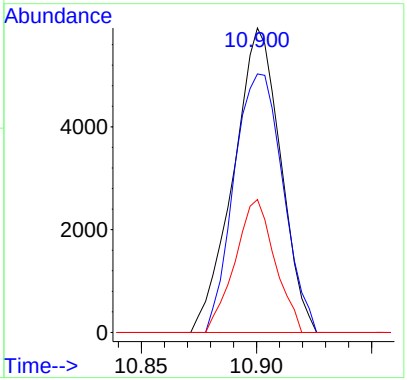


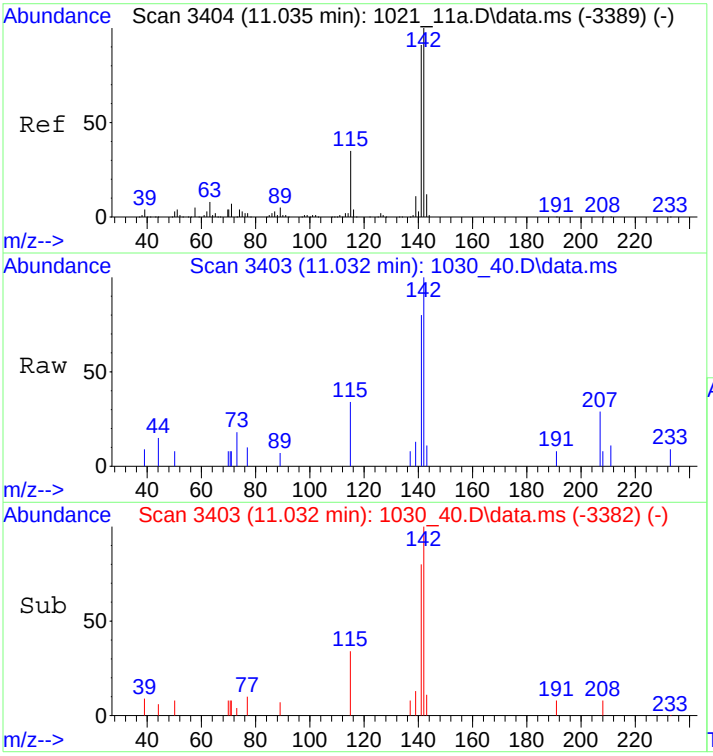


#94
1-Methylnaphthalene
Concen: 0.7193938 ppb
RT: 10.900 min Scan# 3362
Delta R.T. 0.000 min
Lab File: 1030_40.D
Acq: 30 Oct 2014 11:13 pm

Tgt Ion:142 Resp: 8442

Ion	Ratio	Lower	Upper
142	100		
141	88.0	68.2	102.2
115	36.9	26.6	40.0

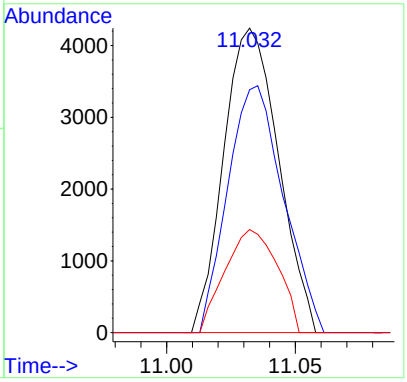




#95
2-Methylnaphthalene
Concen: 0.6524022 ppb
RT: 11.032 min Scan# 3403
Delta R.T. -0.003 min
Lab File: 1030 40.D
Acq: 30 Oct 2014 11:13 pm

Tgt Ion:142 Resp: 6277

Ion	Ratio	Lower	Upper
142	100		
141	82.4	71.8	107.6
115	32.5	28.0	42.0



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 47.D
Acq On : 31 Oct 2014 1:48 am
Operator : 644
Sample : L729564-01 1x WG750700 V8260
Misc : soil IS/SURR14I25028
ALS Vial : 47 Sample Multiplier: 0.91
InstName : VOCMS20

Quant Time: Nov 09 13:45:06 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

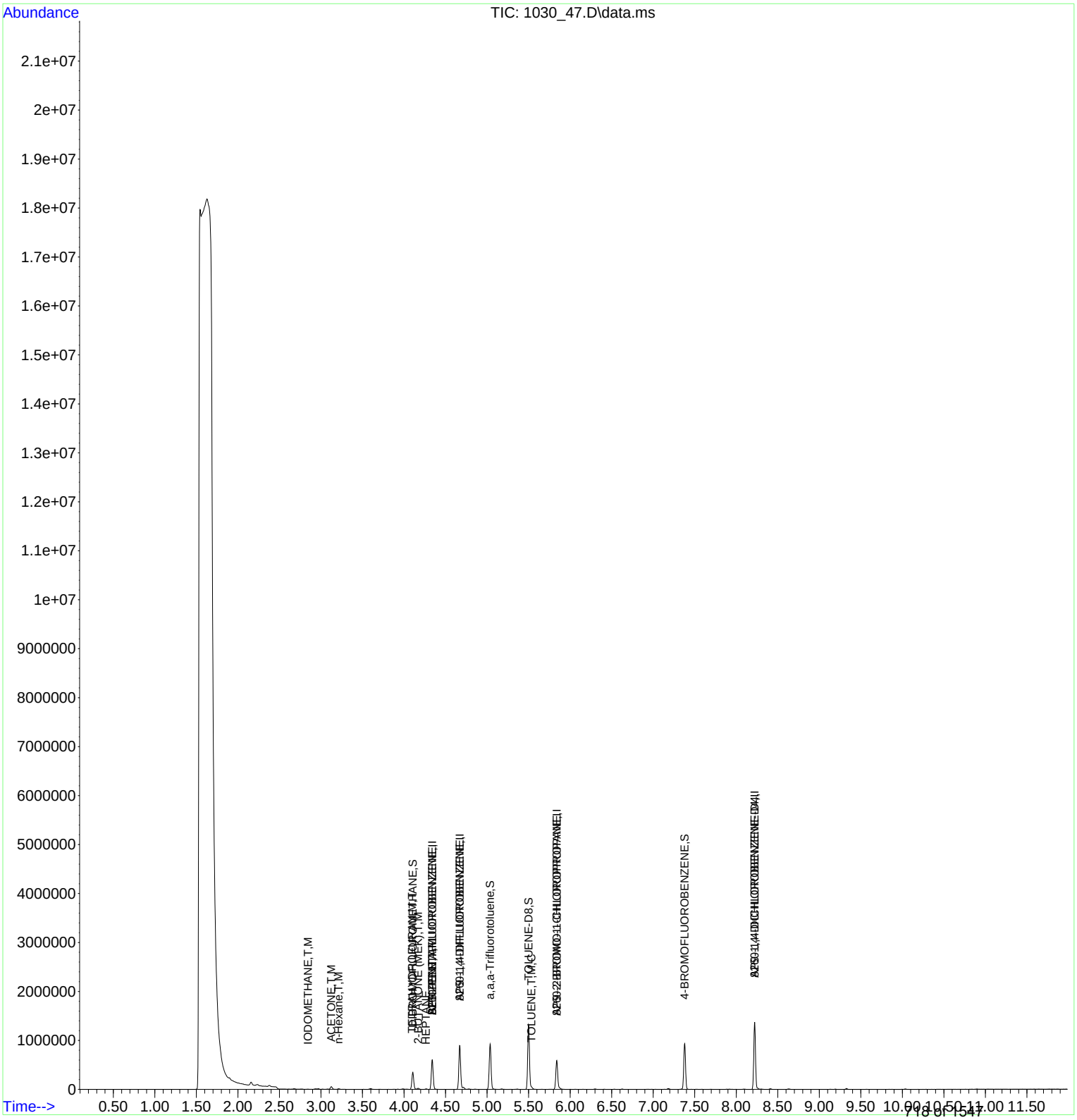
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	278527	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	568358	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	104814	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	297059	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	278527	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	568358	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	104814	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	297059	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.106	111	173749	44.7646880 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 111.91%		
46) a,a,a-Trifluorotoluene	5.036	146	307397	40.0954728 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.24%		
50) TOLUENE-D8	5.499	98	747370	41.3625589 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.41%		
68) 4-BROMOFLUOROBENZENE	7.380	95	312182	40.1861926 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.47%		
Target Compounds					Qvalue
16) ACETONE	3.122	43	53838	39.2794550 ppb	99
17) IODOMETHANE	2.843	142	3302	0.4217722 ppb #	88
21) n-Hexane	3.212	56	2364	0.4312597 ppb #	54
29) 2-BUTANONE (MEK)	4.171	72	5263	9.1868087 ppb #	52
31) TETRAHYDROFURAN	4.097	42	1660	1.2389715 ppb #	65
38) HEPTANE	4.264	43	3138	0.3881526 ppb #	80
39) BENZENE	4.341	78	24305	0.9938838 ppb #	84
51) TOLUENE	5.534	91	19627	0.7138928 ppb	98

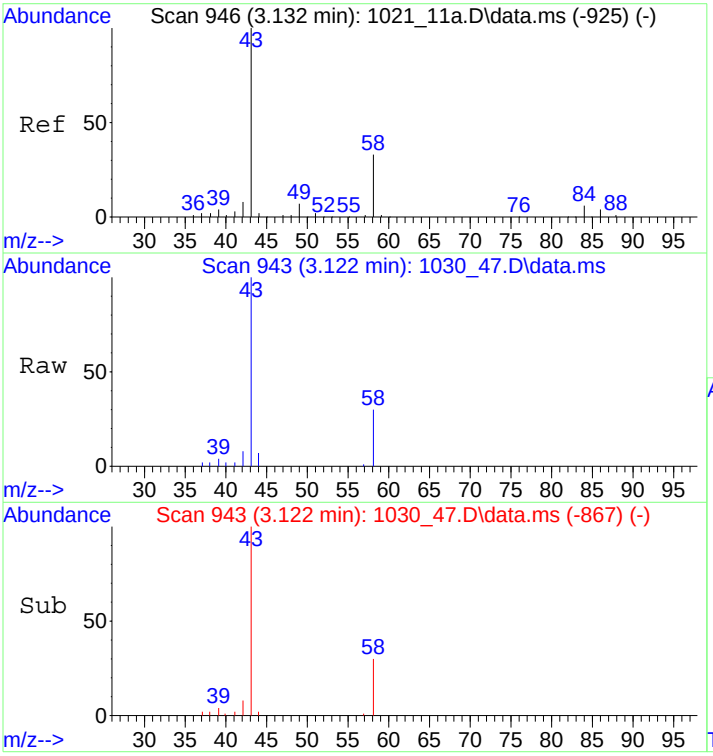
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 47.D
Acq On : 31 Oct 2014 1:48 am
Operator : 644
Sample : L729564-01 1x WG750700 V8260
Misc : soil IS/SURR14I25028
ALS Vial : 47 Sample Multiplier: 0.91
InstName : VOCMS20

Quant Time: Nov 09 13:45:06 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

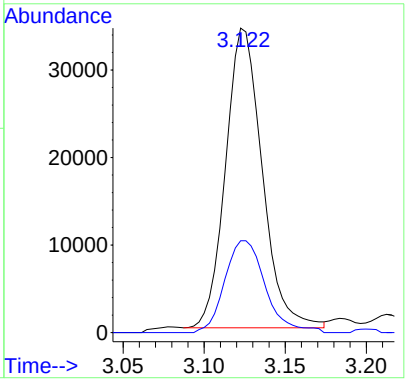


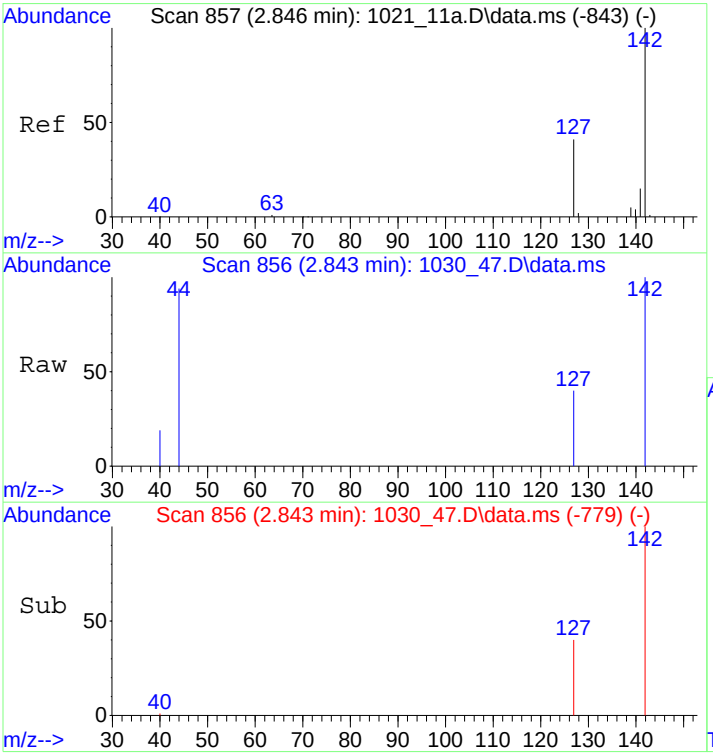


#16
ACETONE
Concen: 39.2794550 ppb
RT: 3.122 min Scan# 943
Delta R.T. -0.007 min
Lab File: 1030 47.D
Acq: 31 Oct 2014 1:48 am

Tgt Ion: 43 Resp: 53838

Ion	Ratio	Lower	Upper
43	100		
58	33.9	26.7	40.1

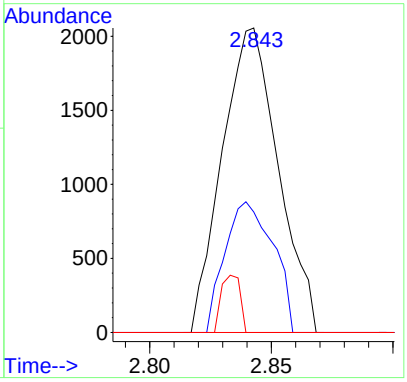


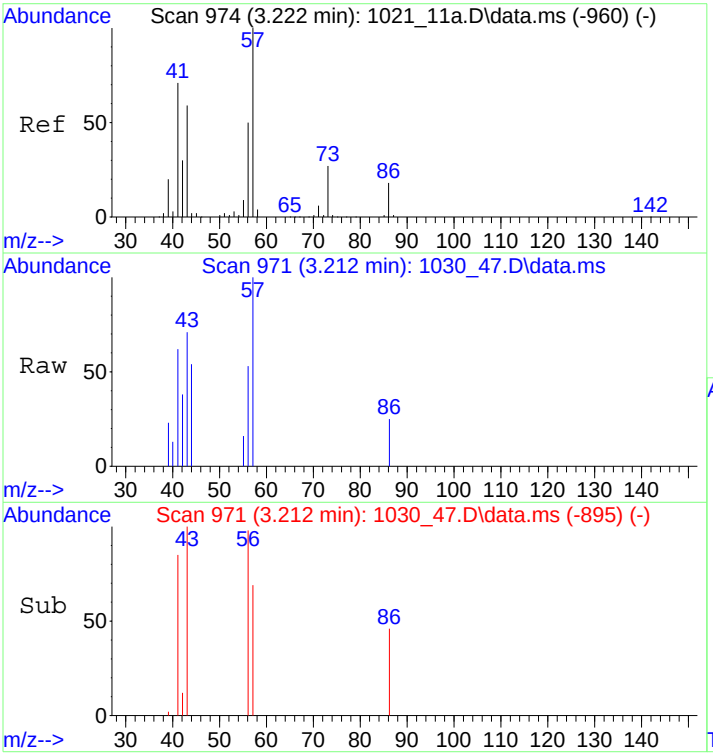


#17
IODOMETHANE
Concen: 0.4217722 ppb
RT: 2.843 min Scan# 856
Delta R.T. -0.003 min
Lab File: 1030_47.D
Acq: 31 Oct 2014 1:48 am

Tgt Ion:142 Resp: 3302

Ion	Ratio	Lower	Upper
142	100		
127	36.9	31.5	47.3
141	0.0	11.4	17.2#

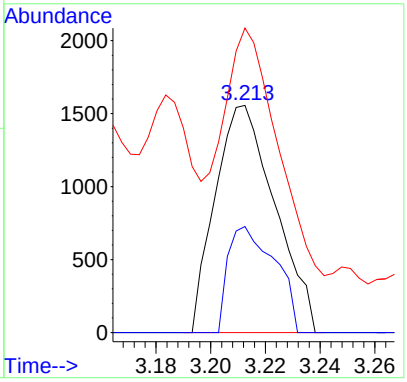


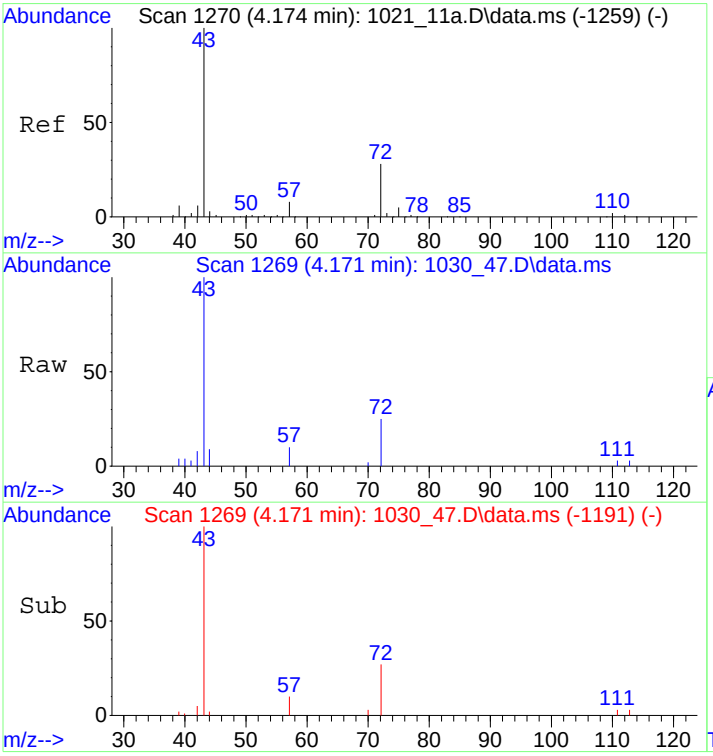


#21
n-Hexane
Concen: 0.4312597 ppb
RT: 3.212 min Scan# 971
Delta R.T. -0.006 min
Lab File: 1030 47.D
Acq: 31 Oct 2014 1:48 am

Tgt Ion: 56 Resp: 2364

Ion	Ratio	Lower	Upper
56	100		
86	36.5	26.0	39.0
43	99.8	139.6	209.4#

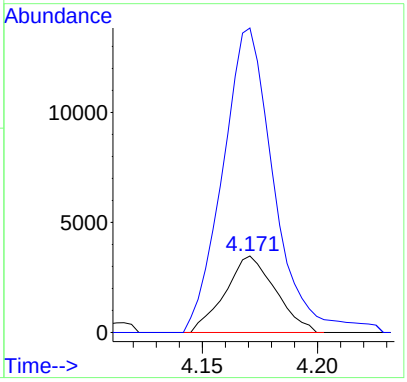


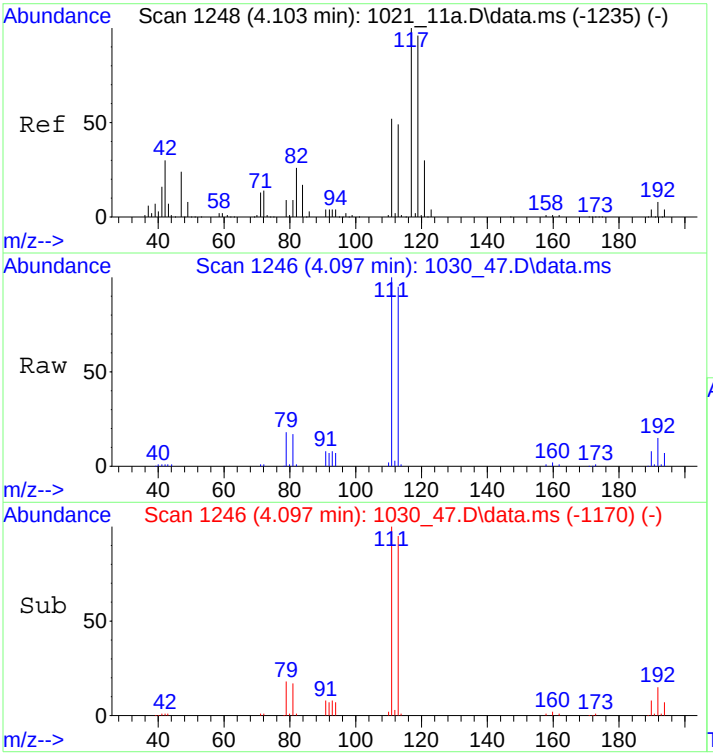


#29
2-BUTANONE (MEK)
Concen: 9.1868087 ppb
RT: 4.171 min Scan# 1269
Delta R.T. -0.000 min
Lab File: 1030_47.D
Acq: 31 Oct 2014 1:48 am

Tgt Ion: 72 Resp: 5263

Ion	Ratio	Lower	Upper
72	100		
43	408.4	249.8	374.8#

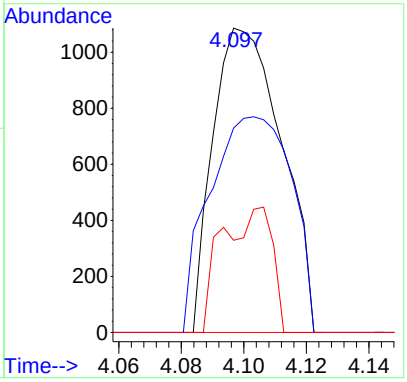


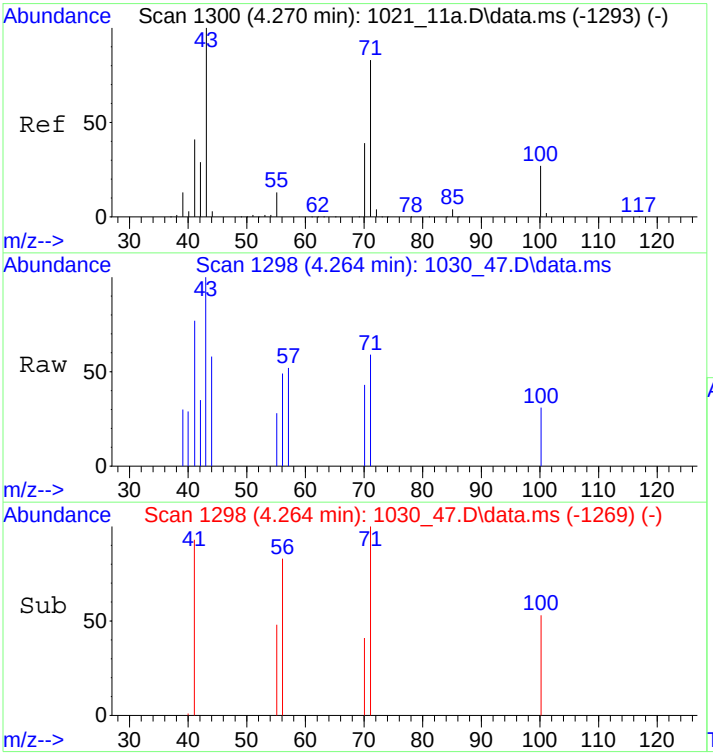


#31
TETRAHYDROFURAN
Concen: 1.2389715 ppb
RT: 4.097 min Scan# 1246
Delta R.T. -0.006 min
Lab File: 1030 47.D
Acq: 31 Oct 2014 1:48 am

Tgt Ion: 42 Resp: 1660

Ion	Ratio	Lower	Upper
42	100		
41	84.4	51.0	76.4#
39	0.0	22.8	34.2#

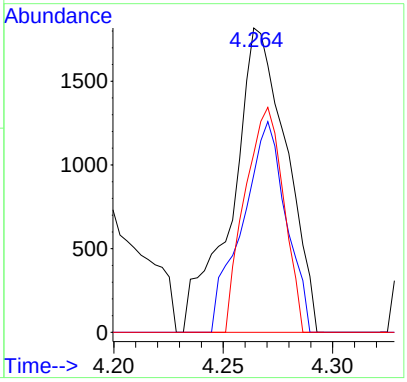


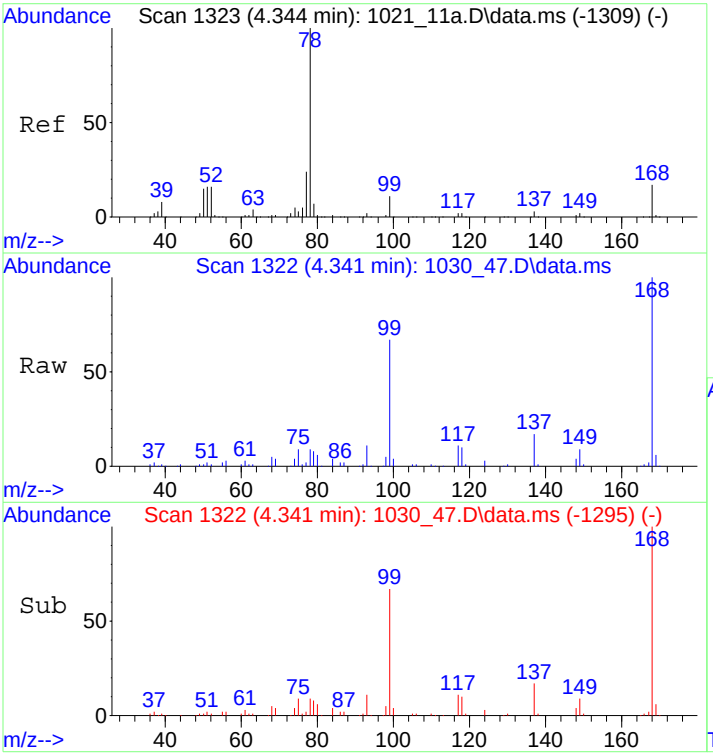


#38
HEPTANE
Concen: 0.3881526 ppb
RT: 4.264 min Scan# 1298
Delta R.T. -0.007 min
Lab File: 1030_47.D
Acq: 31 Oct 2014 1:48 am

Tgt Ion: 43 Resp: 3138

Ion	Ratio	Lower	Upper
43	100		
57	56.0	0.0	0.0#
71	52.6	55.0	82.6#

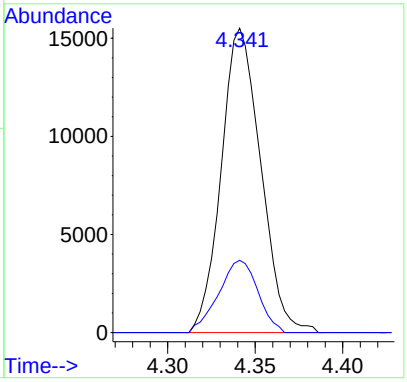


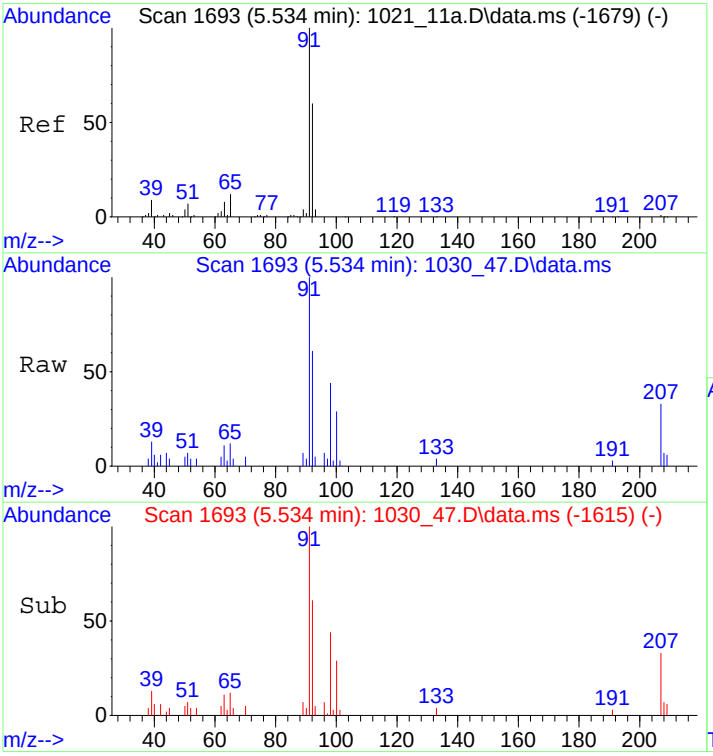


#39
BENZENE
Concen: 0.9938838 ppb
RT: 4.341 min Scan# 1322
Delta R.T. -0.003 min
Lab File: 1030 47.D
Acq: 31 Oct 2014 1:48 am

Tgt Ion: 78 Resp: 24305

Ion	Ratio	Lower	Upper
78	100		
51	23.6	13.4	20.0#

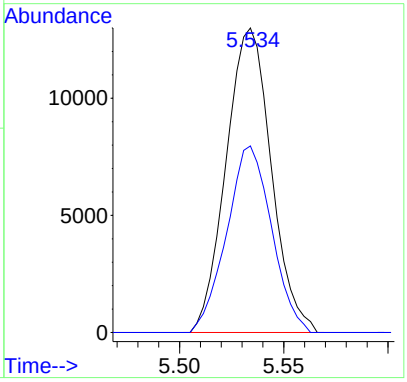




#51
TOLUENE
Concen: 0.7138928 ppb
RT: 5.534 min Scan# 1693
Delta R.T. -0.000 min
Lab File: 1030_47.D
Acq: 31 Oct 2014 1:48 am

Tgt Ion: 91 Resp: 19627

Ion	Ratio	Lower	Upper
91	100		
92	60.8	47.4	71.2



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 48.D
Acq On : 31 Oct 2014 2:06 am
Operator : 644
Sample : L729564-02 1x WG750700 V8260
Misc : soil IS/SURR14I25028
ALS Vial : 48 Sample Multiplier: 0.94
InstName : VOCMS20

Quant Time: Nov 09 13:46:18 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

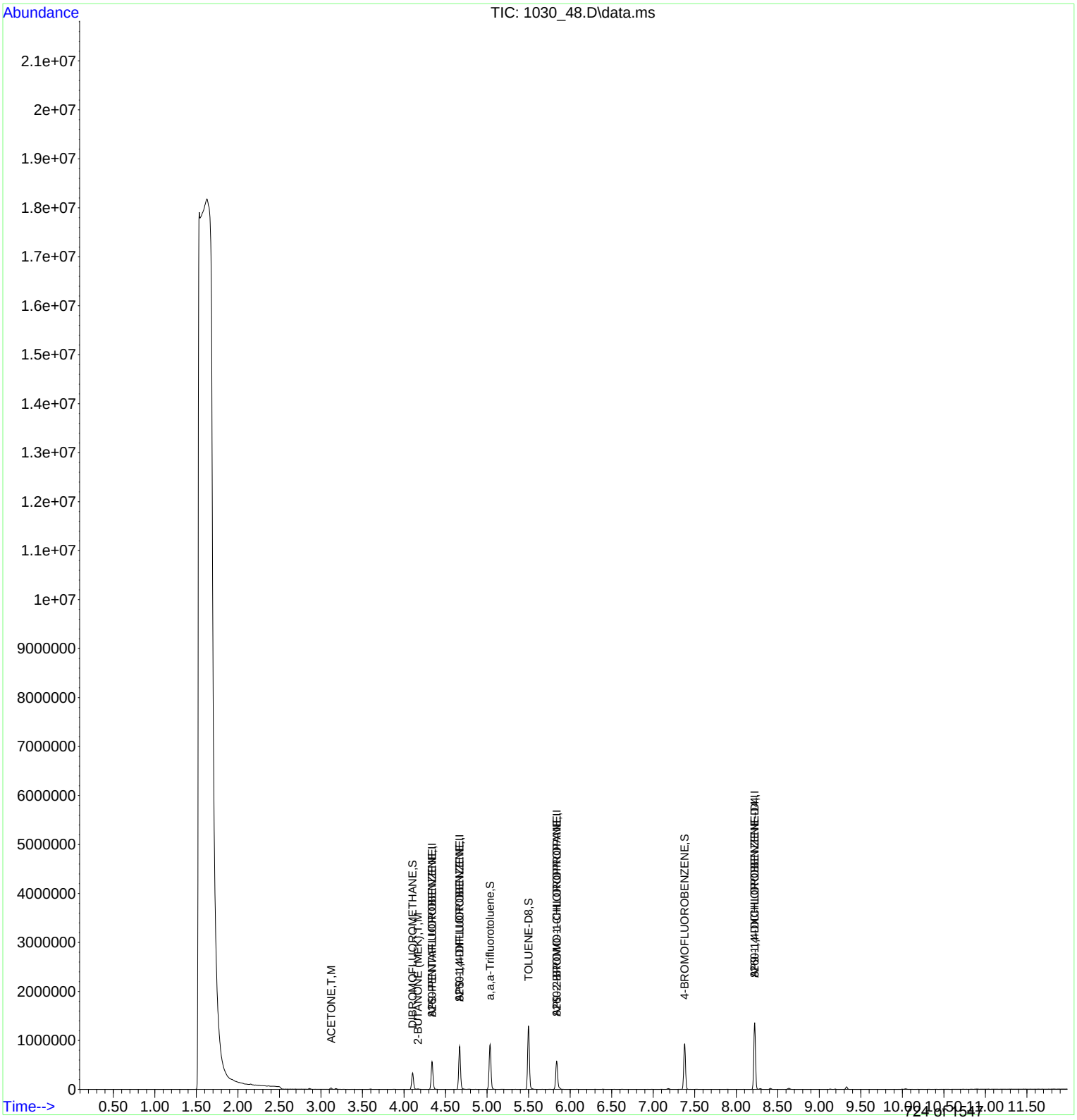
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	273577	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	558597	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	103054	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	297675	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	273577	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	558597	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	103054	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	297675	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.103	111	171840	45.0739098 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.68%		
46) a,a,a-Trifluorotoluene	5.036	146	307942	40.8684361 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.17%		
50) TOLUENE-D8	5.499	98	727619	40.9731305 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.43%		
68) 4-BROMOFLUOROBENZENE	7.380	95	304289	39.8391164 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.60%		
Target Compounds					Qvalue
16) ACETONE	3.122	43	25559	19.6107667 ppb	98
29) 2-BUTANONE (MEK)	4.167	72	2262	4.1523895 ppb #	52

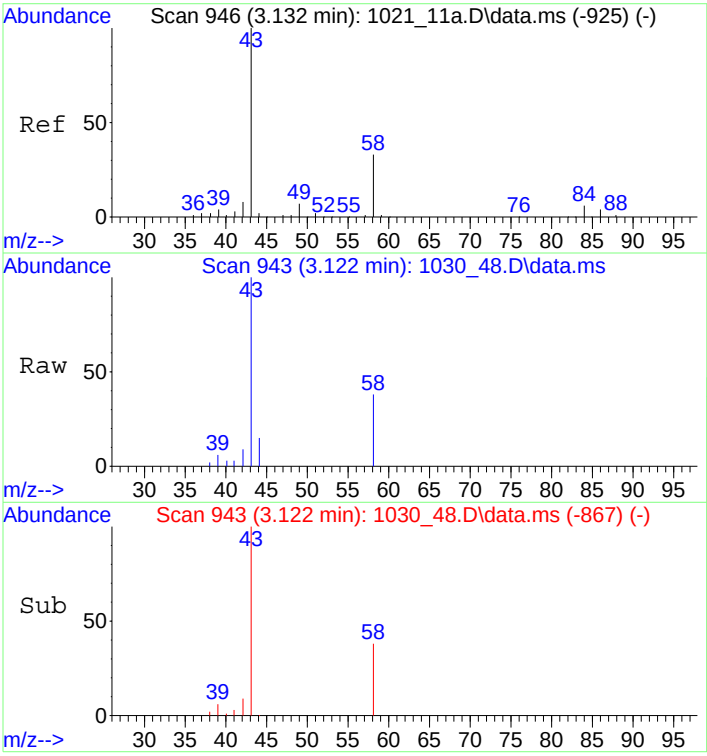
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 48.D
Acq On : 31 Oct 2014 2:06 am
Operator : 644
Sample : L729564-02 1x WG750700 V8260
Misc : soil IS/SURR14I25028
ALS Vial : 48 Sample Multiplier: 0.94
InstName : VOCMS20

Quant Time: Nov 09 13:46:18 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

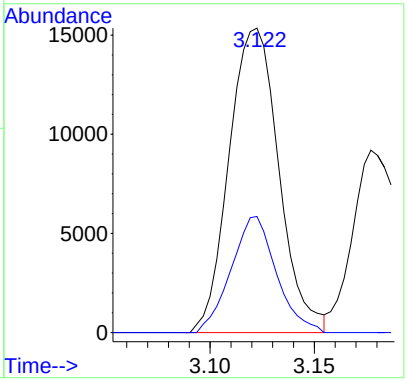


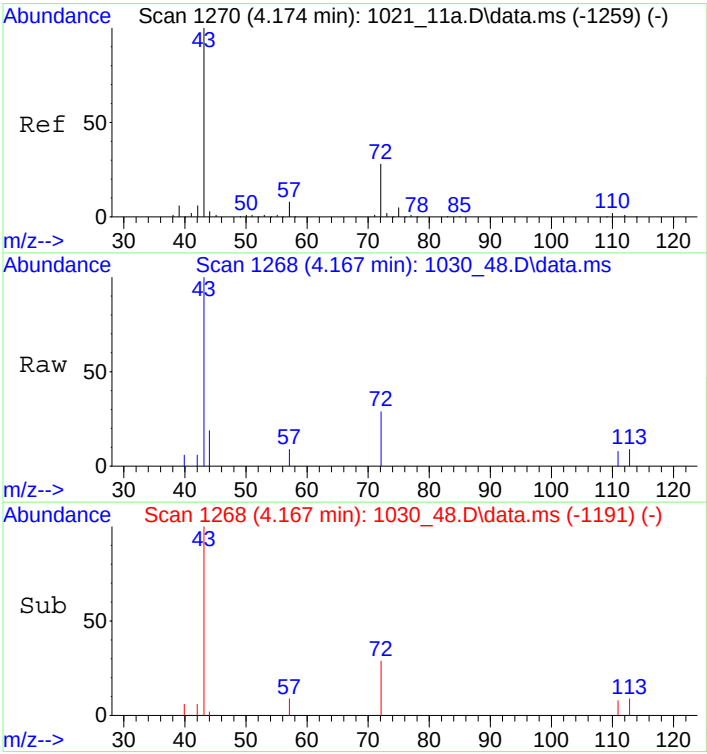


#16
ACETONE
Concen: 19.6107667 ppb
RT: 3.122 min Scan# 943
Delta R.T. -0.007 min
Lab File: 1030 48.D
Acq: 31 Oct 2014 2:06 am

Tgt Ion: 43 Resp: 25559

Ion	Ratio	Lower	Upper
43	100		
58	34.6	26.7	40.1

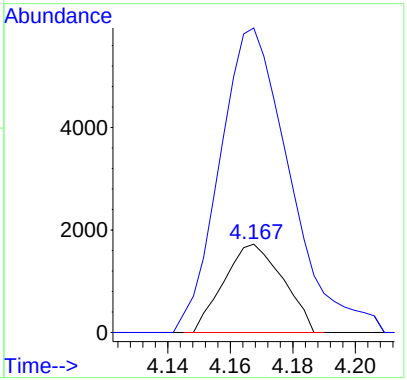




#29
2-BUTANONE (MEK)
Concen: 4.1523895 ppb
RT: 4.167 min Scan# 1268
Delta R.T. -0.003 min
Lab File: 1030_48.D
Acq: 31 Oct 2014 2:06 am

Tgt Ion: 72 Resp: 2262

Ion	Ratio	Lower	Upper
72	100		
43	409.5	249.8	374.8#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 49.D
Acq On : 31 Oct 2014 2:24 am
Operator : 644
Sample : L729564-04 1x WG750700 V8260
Misc : soil IS/SURR14I25028
ALS Vial : 49 Sample Multiplier: 0.93
InstName : VOCMS20

Quant Time: Nov 09 13:48:21 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

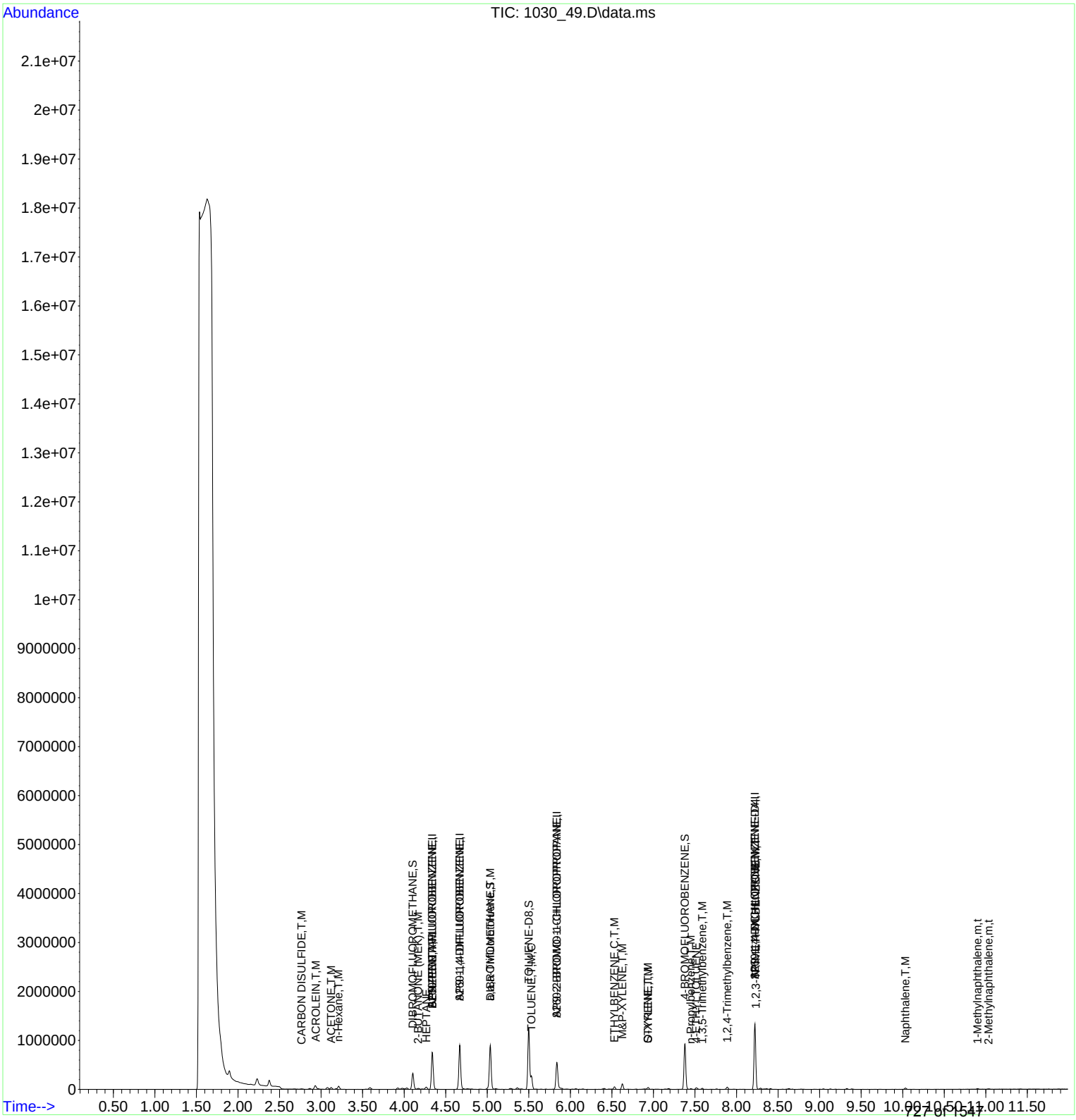
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	272483	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	541940	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.836	79	100387	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	291991	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	272483	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	541940	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.836	79	100387	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	291991	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.103	111	167928	44.2246346 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 110.56%		
46) a,a,a-Trifluorotoluene	5.036	146	293660	40.1708738 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.43%		
50) TOLUENE-D8	5.499	98	713797	41.4302188 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.58%		
68) 4-BROMOFLUOROBENZENE	7.380	95	303808	40.8328815 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.08%		
Target Compounds					Qvalue
13) ACROLEIN	2.936	56	2908	4.4004834 ppb #	15
16) ACETONE	3.123	43	30191	23.0103635 ppb	90
18) CARBON DISULFIDE	2.766	76	5946	0.3422493 ppb #	80
21) n-Hexane	3.209	56	14146	2.6958427 ppb #	57
29) 2-BUTANONE (MEK)	4.168	72	3071	5.5999038 ppb #	59
38) HEPTANE	4.267	43	13281	1.7161286 ppb #	86
39) BENZENE	4.341	78	155084	6.6248555 ppb	97
51) TOLUENE	5.531	91	156076	6.0845370 ppb	98
62) ETHYLBENZENE	6.531	106	10425	1.0772407 ppb	99
63) M&P-XYLENE	6.627	106	29285	2.4417955 ppb	89
64) O-XYLENE	6.936	106	9633	0.8290176 ppb	95
74) 4-ETHYLTOLUENE	7.515	105	21562	0.7078976 ppb	98
77) 1,3,5-Trimethylbenzene	7.589	105	10686	0.4150822 ppb	92
79) 1,2,4-Trimethylbenzene	7.888	105	22553	0.8620033 ppb	97
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	13423	0.4396633 ppb	95
92) Naphthalene	10.032	128	15921	0.8178332 ppb	96
94) 1-Methylnaphthalene	10.900	142	5863	0.5136271 ppb	93
95) 2-Methylnaphthalene	11.032	142	4486	0.4793241 ppb	91

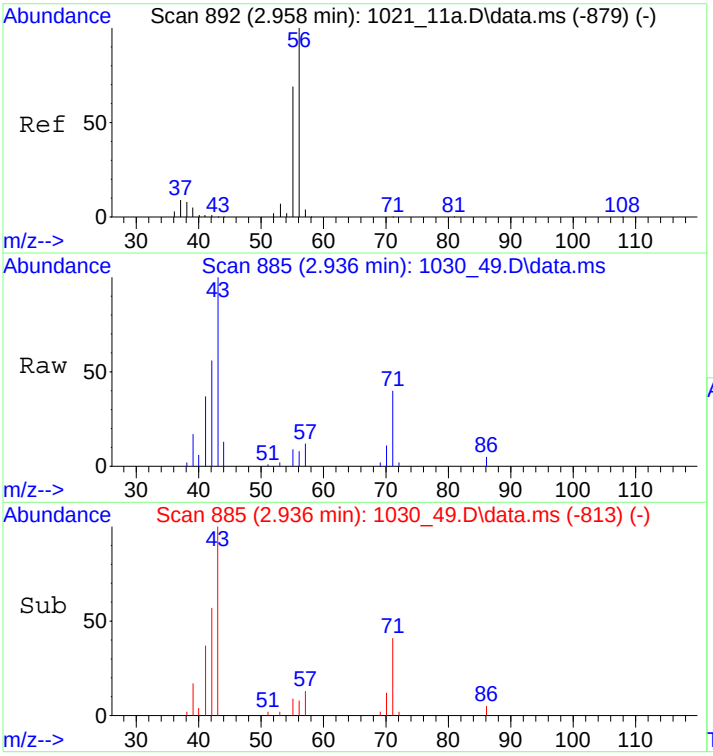
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 49.D
Acq On : 31 Oct 2014 2:24 am
Operator : 644
Sample : L729564-04 1x WG750700 V8260
Misc : soil IS/SURR14I25028
ALS Vial : 49 Sample Multiplier: 0.93
InstName : VOCMS20

Quant Time: Nov 09 13:48:21 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

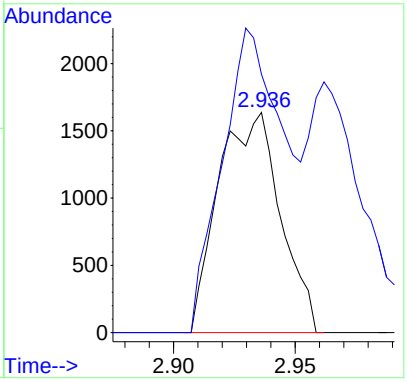


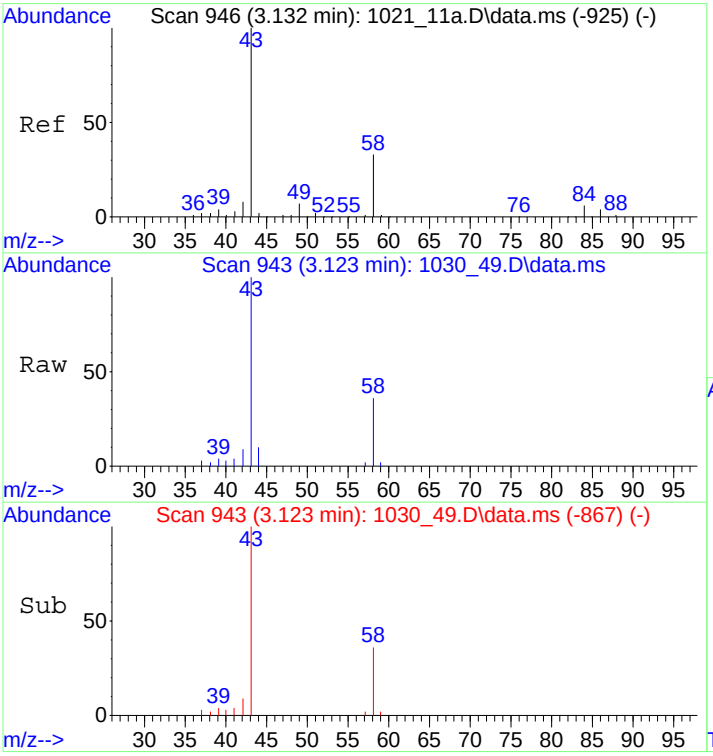


#13
ACROLEIN
Concen: 4.4004834 ppb
RT: 2.936 min Scan# 885
Delta R.T. -0.019 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion: 56 Resp: 2908

Ion	Ratio	Lower	Upper
56	100		
55	138.0	55.2	82.8#

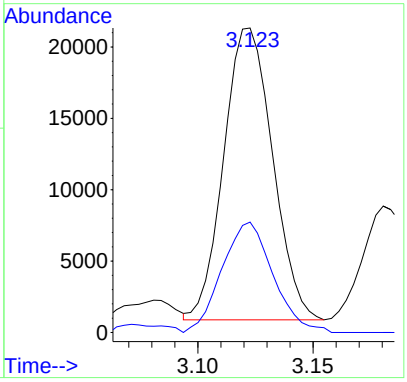


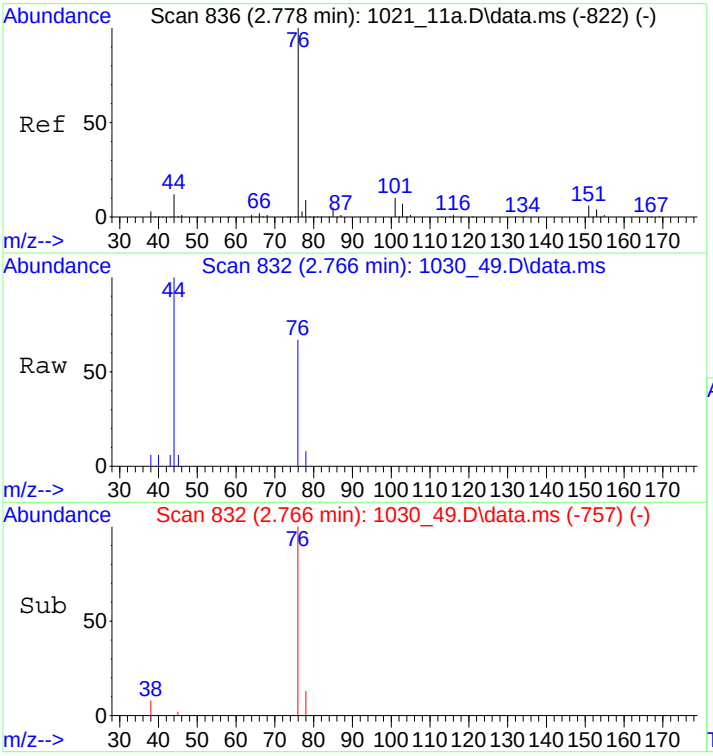


#16
ACETONE
Concen: 23.0103635 ppb
RT: 3.123 min Scan# 943
Delta R.T. -0.006 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion: 43 Resp: 30191

Ion	Ratio	Lower	Upper
43	100		
58	39.4	26.7	40.1

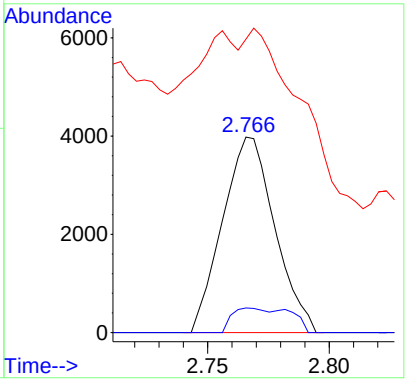


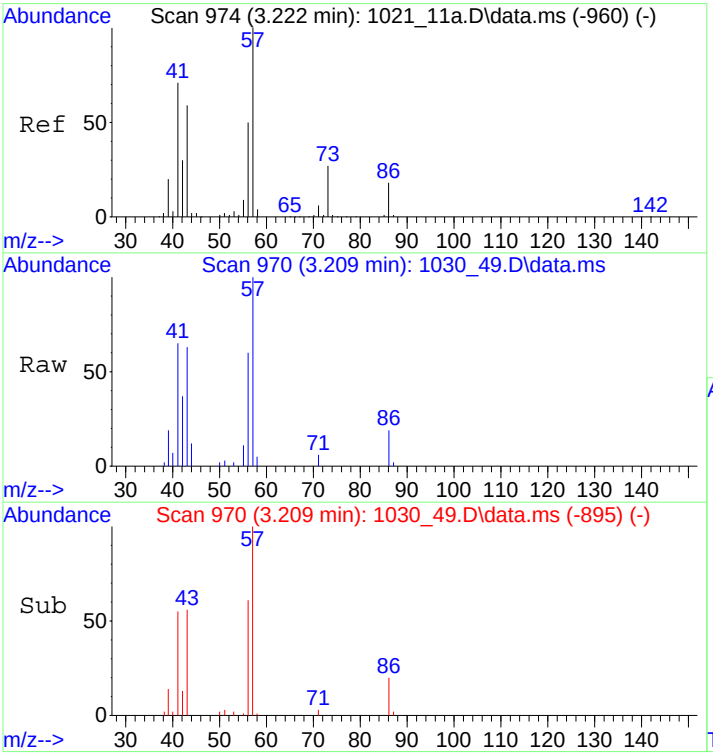


#18
CARBON DISULFIDE
Concen: 0.3422493 ppb
RT: 2.766 min Scan# 832
Delta R.T. -0.010 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion: 76 Resp: 5946

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.8	11.8
44	0.0	10.6	16.0#

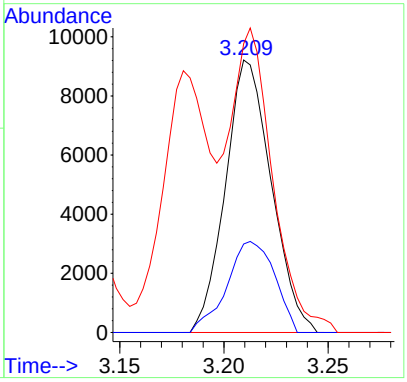


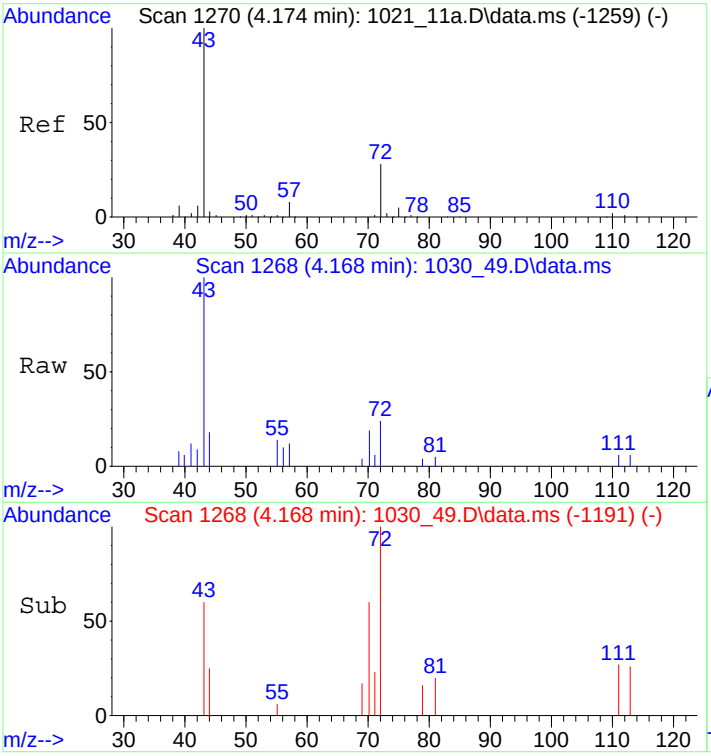


#21
n-Hexane
Concen: 2.6958427 ppb
RT: 3.209 min Scan# 970
Delta R.T. -0.010 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion: 56 Resp: 14146

Ion	Ratio	Lower	Upper
56	100		
86	34.7	26.0	39.0
43	105.0	139.6	209.4#

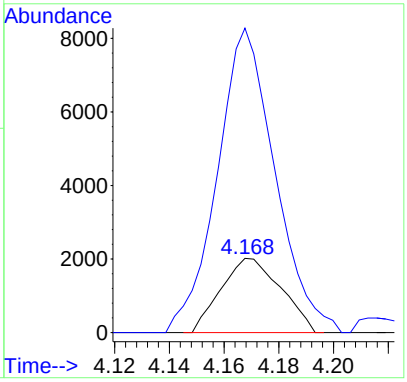


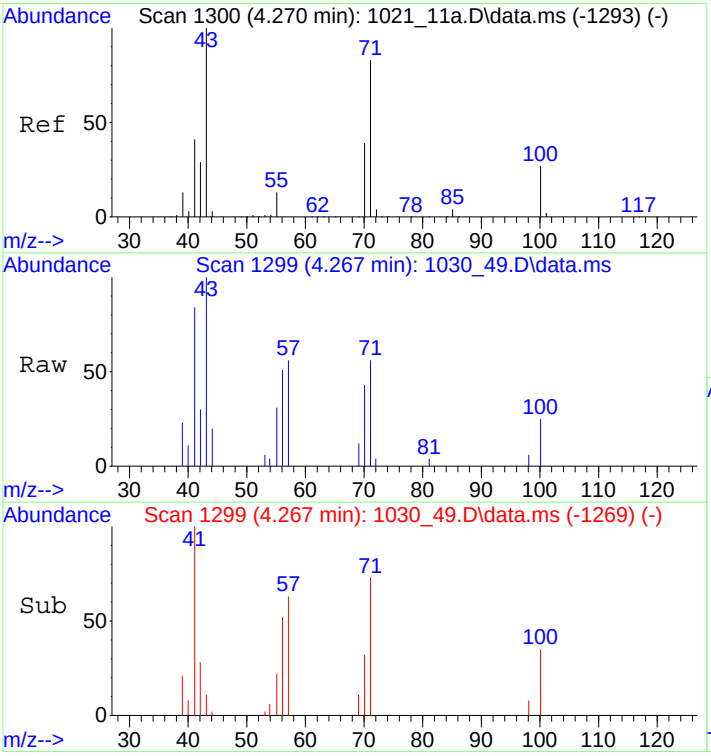


#29
2-BUTANONE (MEK)
Concen: 5.5999038 ppb
RT: 4.168 min Scan# 1268
Delta R.T. -0.003 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion: 72 Resp: 3071

Ion	Ratio	Lower	Upper
72	100		
43	395.2	249.8	374.8#

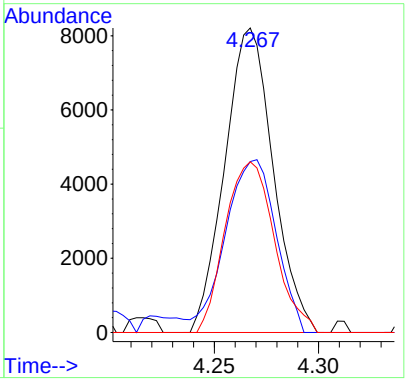


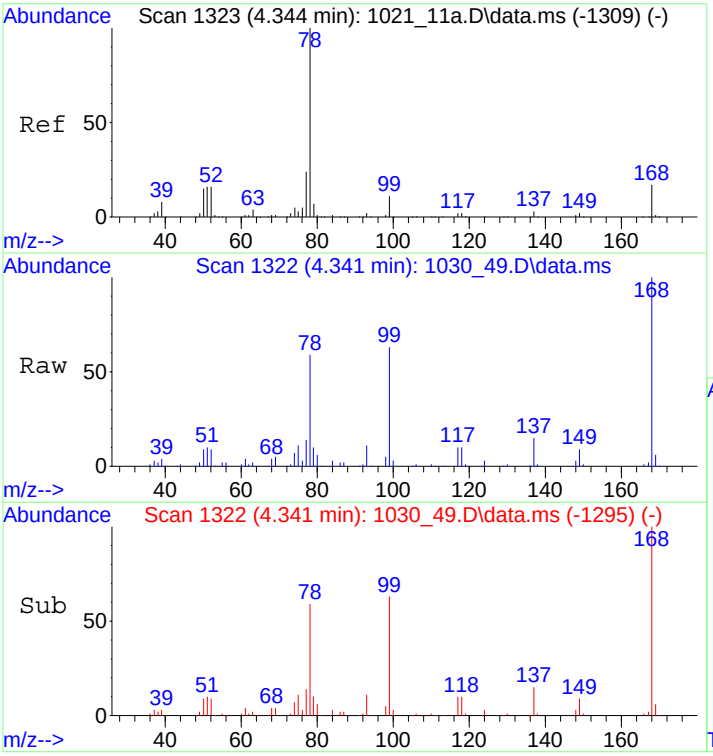


#38
HEPTANE
Concen: 1.7161286 ppb
RT: 4.267 min Scan# 1299
Delta R.T. -0.003 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion: 43 Resp: 13281

Ion	Ratio	Lower	Upper
43	100		
57	59.1	0.0	0.0#
71	57.0	55.0	82.6

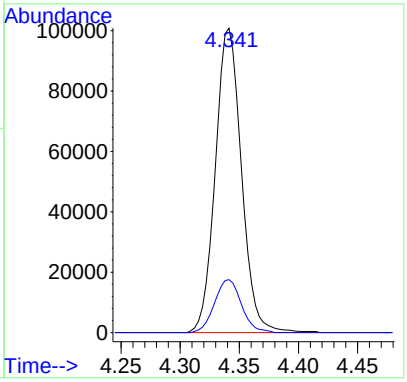


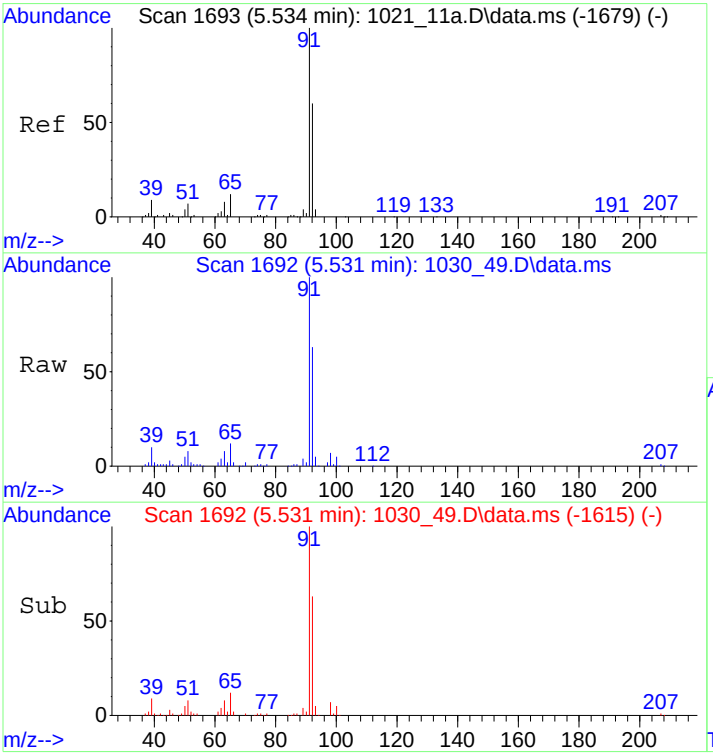


#39
BENZENE
Concen: 6.6248555 ppb
RT: 4.341 min Scan# 1322
Delta R.T. -0.003 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion: 78 Resp: 155084

Ion	Ratio	Lower	Upper
78	100		
51	17.9	13.4	20.0

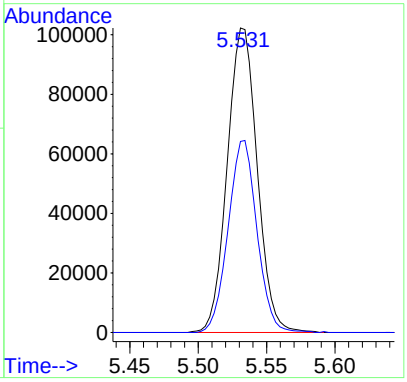


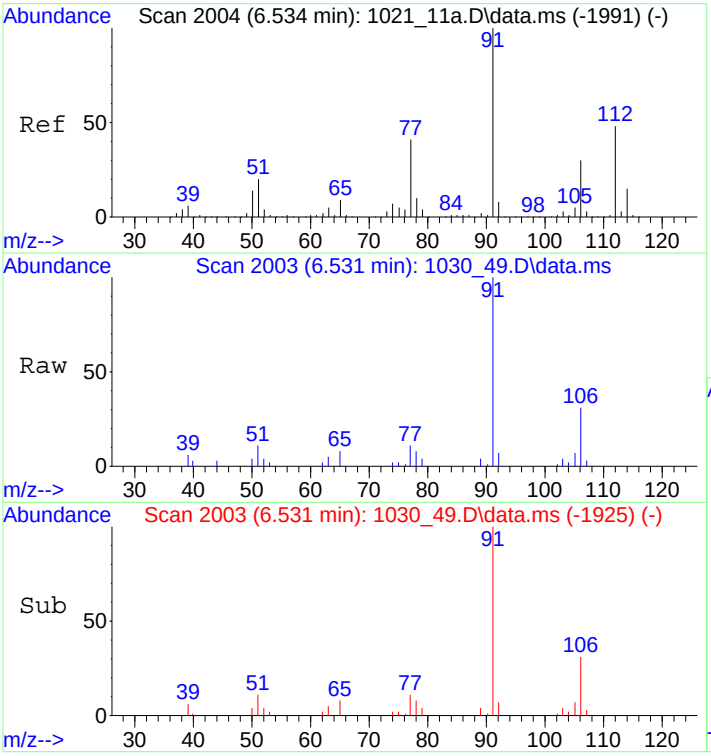


#51
TOLUENE
Concen: 6.0845370 ppb
RT: 5.531 min Scan# 1692
Delta R.T. -0.003 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion: 91 Resp: 156076

Ion	Ratio	Lower	Upper
91	100		
92	60.6	47.4	71.2

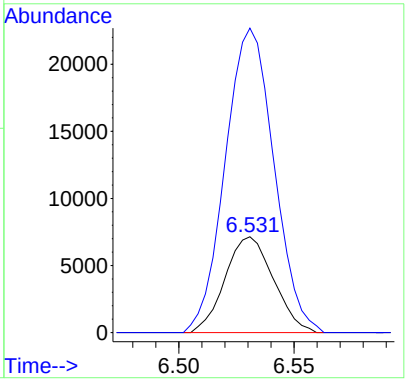


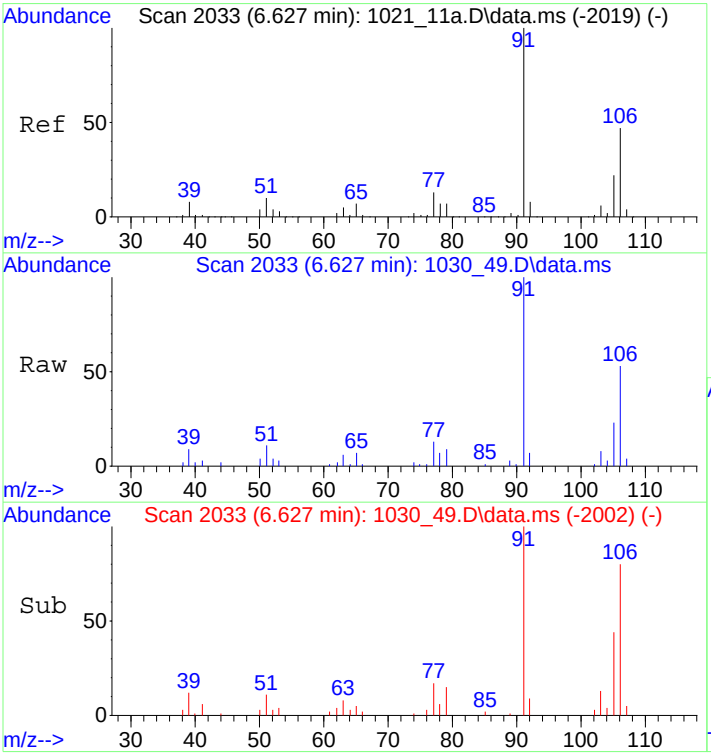


#62
ETHYLBENZENE
Concen: 1.0772407 ppb
RT: 6.531 min Scan# 2003
Delta R.T. 0.000 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:106 Resp: 10425

Ion	Ratio	Lower	Upper
106	100		
91	319.8	258.1	387.1

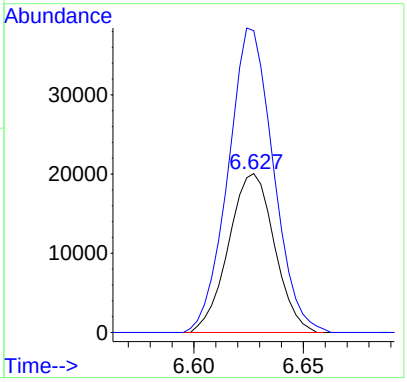


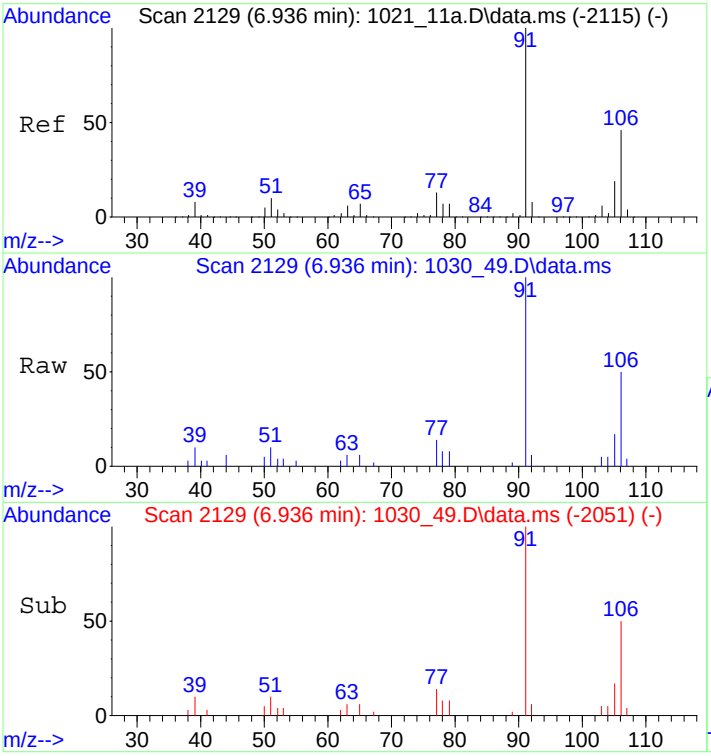


#63
M&P-XYLENE
Concen: 2.4417955 ppb
RT: 6.627 min Scan# 2033
Delta R.T. 0.000 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:106 Resp: 29285

Ion	Ratio	Lower	Upper
106	100		
91	189.1	165.2	247.8

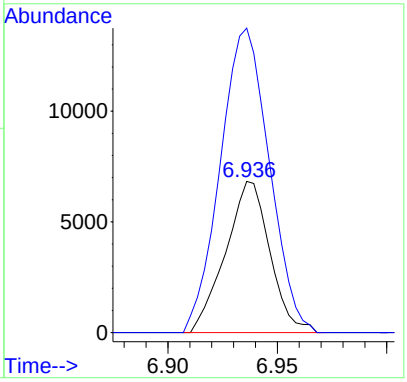


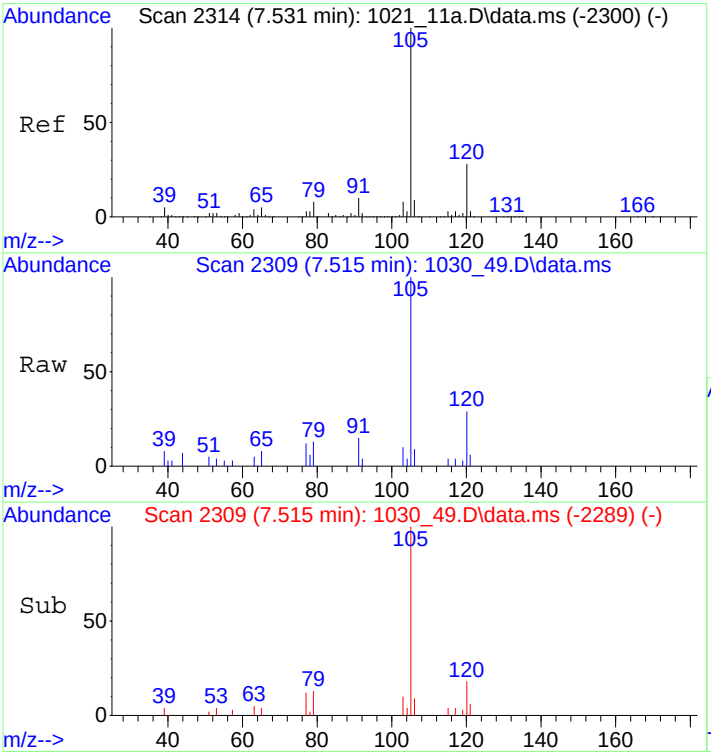


#64
O-XYLENE
Concen: 0.8290176 ppb
RT: 6.936 min Scan# 2129
Delta R.T. 0.000 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:106 Resp: 9633

Ion	Ratio	Lower	Upper
106	100		
91	222.6	171.7	257.5

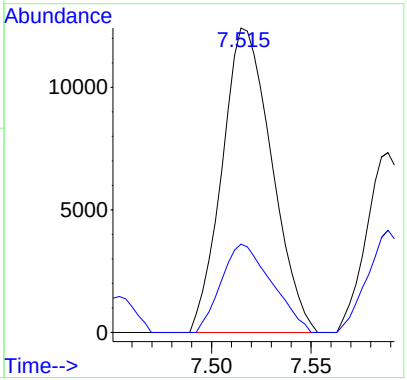


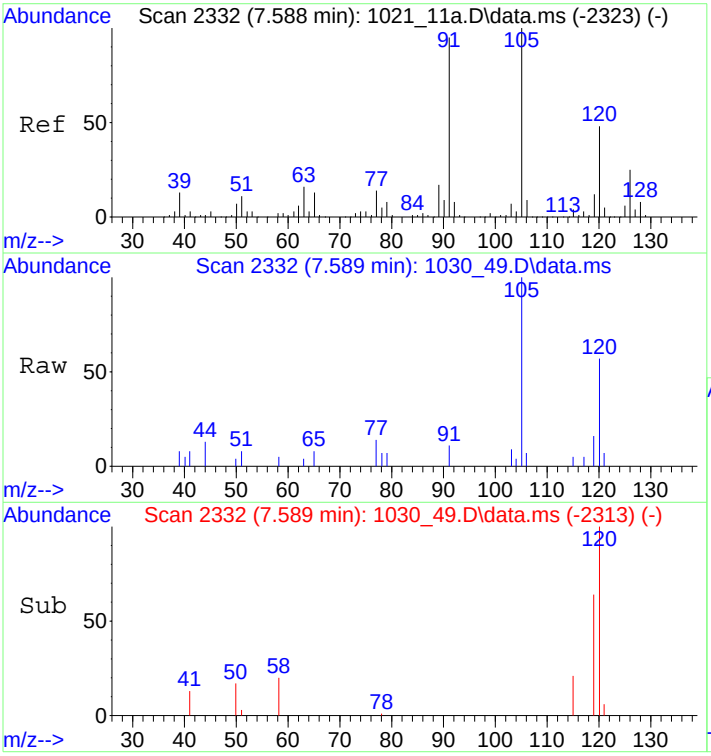


#74
4-ETHYLTOLUENE
Concen: 0.7078976 ppb
RT: 7.515 min Scan# 2309
Delta R.T. -0.016 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:105 Resp: 21562

Ion	Ratio	Lower	Upper
105	100		
120	29.5	22.9	34.3

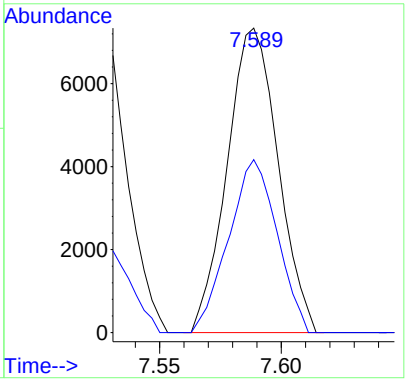


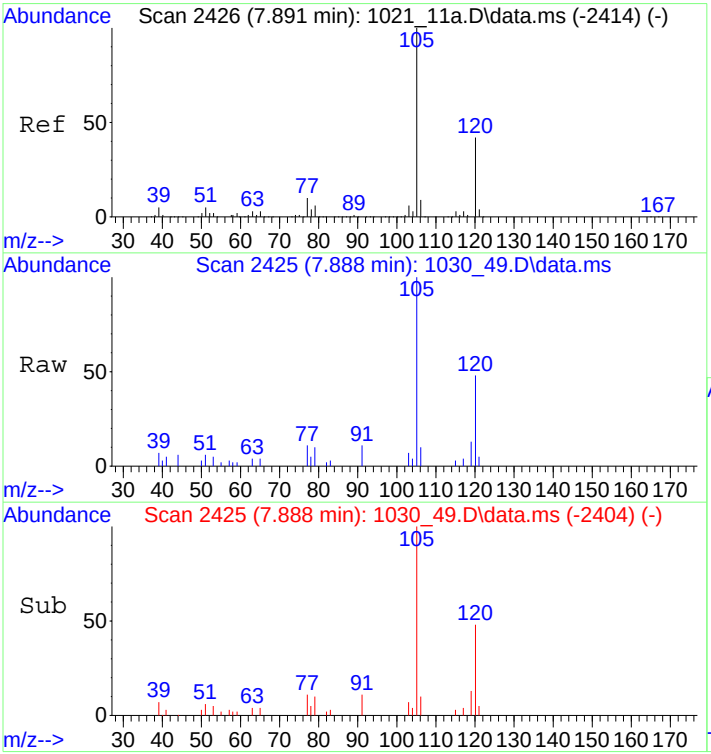


#77
1,3,5-Trimethylbenzene
Concen: 0.4150822 ppb
RT: 7.589 min Scan# 2332
Delta R.T. 0.000 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:105 Resp: 10686

Ion	Ratio	Lower	Upper
105	100		
120	54.0	38.7	58.1

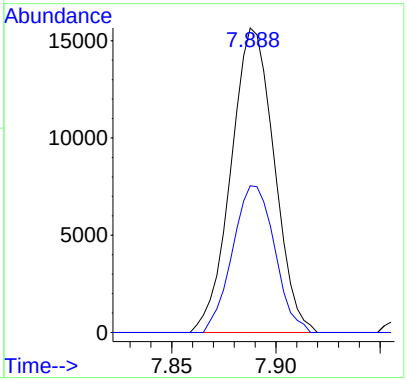


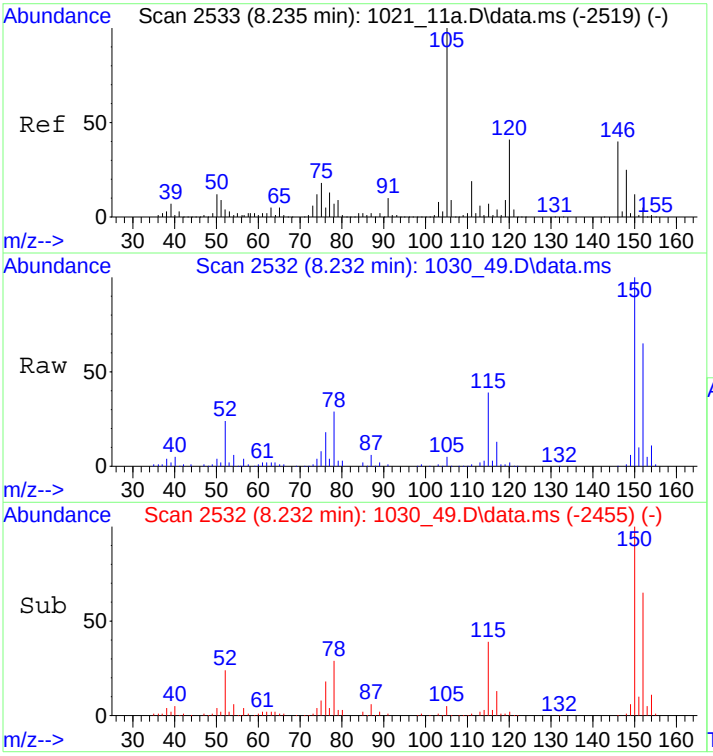


#79
1,2,4-Trimethylbenzene
Concen: 0.8620033 ppb
RT: 7.888 min Scan# 2425
Delta R.T. -0.003 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:105 Resp: 22553

Ion	Ratio	Lower	Upper
105	100		
120	46.9	35.8	53.8

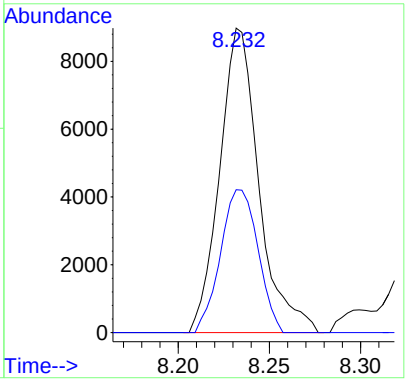


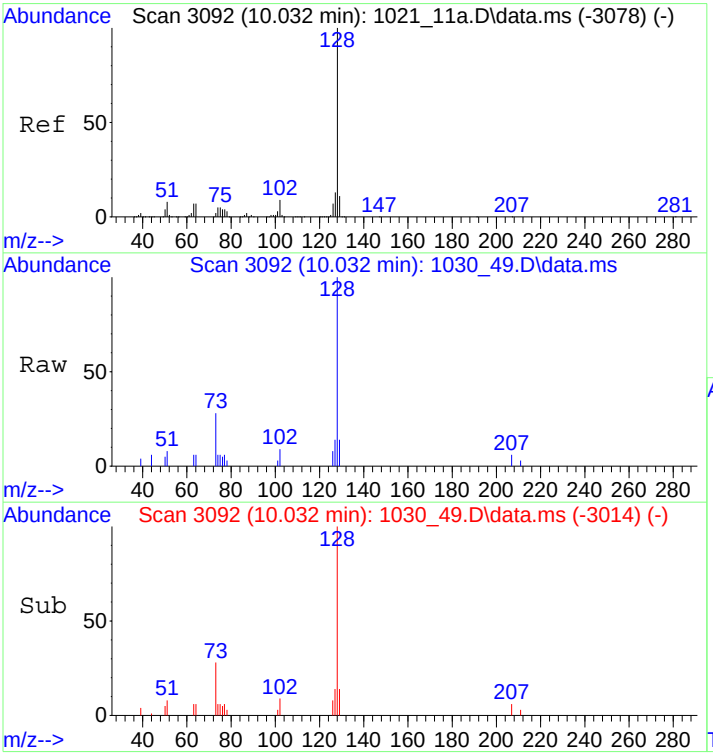


#86
1,2,3-TRIMETHYLBENZENE
Concen: 0.4396633 ppb
RT: 8.232 min Scan# 2532
Delta R.T. -0.003 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:105 Resp: 13423

Ion	Ratio	Lower	Upper
105	100		
120	44.8	33.4	50.2

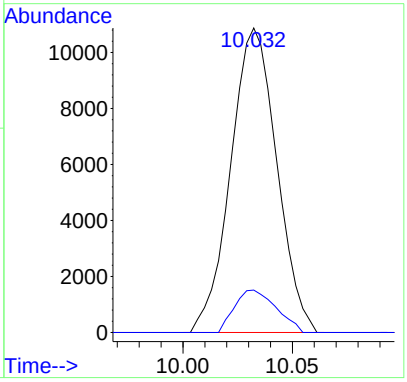


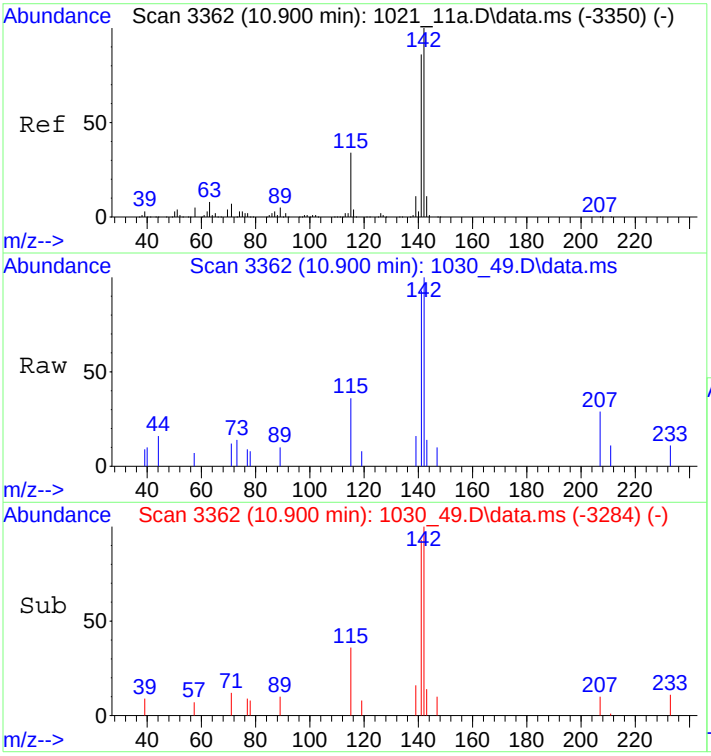


#92
Naphthalene
Concen: 0.8178332 ppb
RT: 10.032 min Scan# 3092
Delta R.T. 0.000 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:128 Resp: 15921

Ion	Ratio	Lower	Upper
128	100		
129	12.6	8.7	13.1

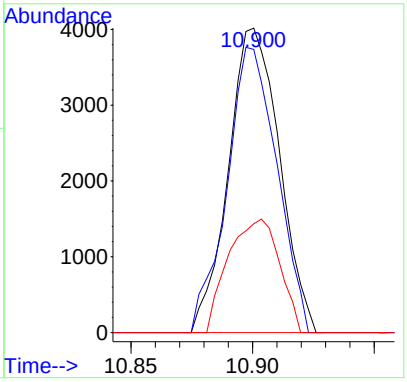


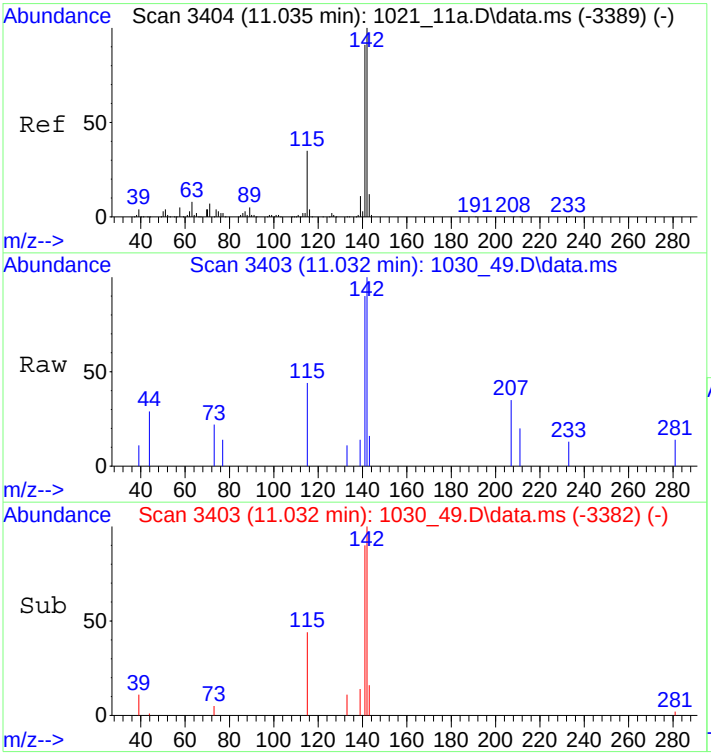


#94
1-Methylnaphthalene
Concen: 0.5136271 ppb
RT: 10.900 min Scan# 3362
Delta R.T. 0.000 min
Lab File: 1030 49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:142 Resp: 5863

Ion	Ratio	Lower	Upper
142	100		
141	91.5	68.2	102.2
115	37.4	26.6	40.0

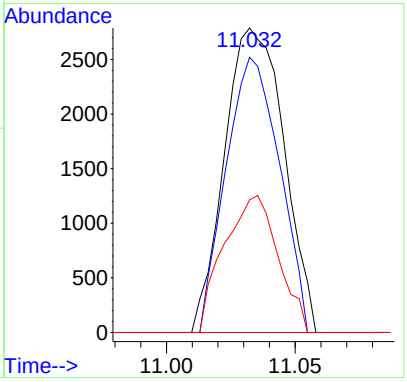




#95
2-Methylnaphthalene
Concen: 0.4793241 ppb
RT: 11.032 min Scan# 3403
Delta R.T. -0.003 min
Lab File: 1030_49.D
Acq: 31 Oct 2014 2:24 am

Tgt Ion:142 Resp: 4486

Ion	Ratio	Lower	Upper
142	100		
141	81.3	71.8	107.6
115	40.8	28.0	42.0



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 50.D
Acq On : 31 Oct 2014 2:42 am
Operator : 644
Sample : L729564-05 1x WG750700 V8260
Misc : soil IS/SURR14I25028
ALS Vial : 50 Sample Multiplier: 0.83
InstName : VOCMS20

Quant Time: Nov 09 13:50:07 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

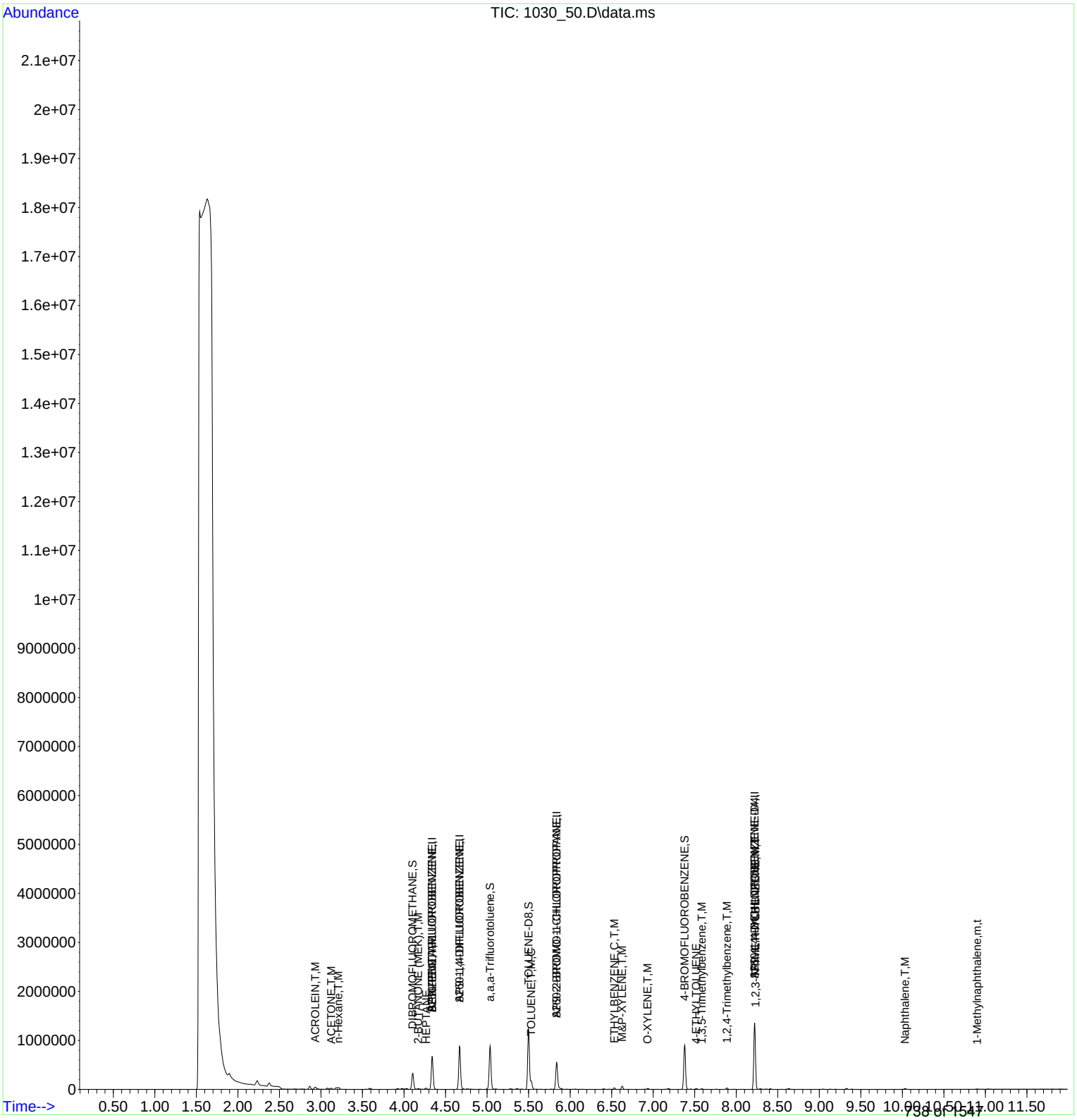
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.338	168	262342	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	526745	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.836	79	97391	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	291354	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	262342	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	526745	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.836	79	97391	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	291354	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.103	111	168399	46.0630015	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 115.16%			
46) a,a,a-Trifluorotoluene	5.036	146	285552	40.1885628	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.47%			
50) TOLUENE-D8	5.499	98	683967	40.8440164	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.11%			
68) 4-BROMOFLUOROBENZENE	7.380	95	297171	41.1695290	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.92%			
Target Compounds						Qvalue
13) ACROLEIN	2.933	56	1861	2.6104723	ppb #	26
16) ACETONE	3.123	43	20383	14.4006076	ppb	93
21) n-Hexane	3.209	56	7772	1.3729680	ppb #	1
29) 2-BUTANONE (MEK)	4.171	72	2104	3.5564214	ppb #	43
38) HEPTANE	4.267	43	7499	0.8982333	ppb #	94
39) BENZENE	4.341	78	99986	3.9592720	ppb	95
51) TOLUENE	5.531	91	93955	3.3632352	ppb	99
62) ETHYLBENZENE	6.534	106	6096	0.5794760	ppb	98
63) M&P-XYLENE	6.627	106	15867	1.2170619	ppb	97
64) O-XYLENE	6.933	106	4888	0.3869788	ppb	82
74) 4-ETHYLTOLUENE	7.518	105	12493	0.3773131	ppb	97
79) 1,2,4-Trimethylbenzene	7.888	105	15112	0.5313496	ppb	96
92) Naphthalene	10.032	128	9277	0.4262316	ppb #	91

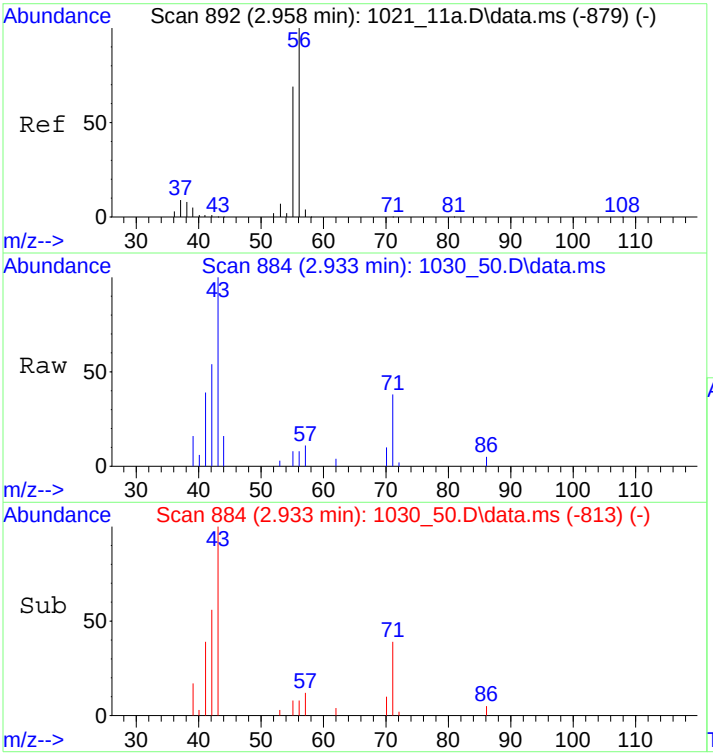
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\103014\
Data File : 1030 50.D
Acq On : 31 Oct 2014 2:42 am
Operator : 644
Sample : L729564-05 1x WG750700 V8260
Misc : soil IS/SURR14I25028
ALS Vial : 50 Sample Multiplier: 0.83
InstName : VOCMS20

Quant Time: Nov 09 13:50:07 2015
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

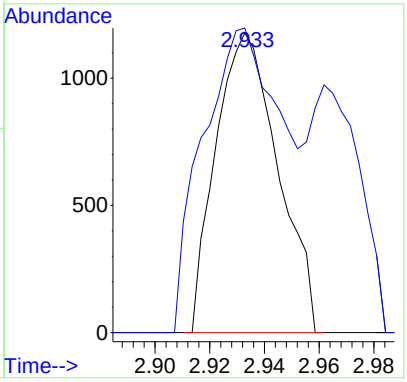


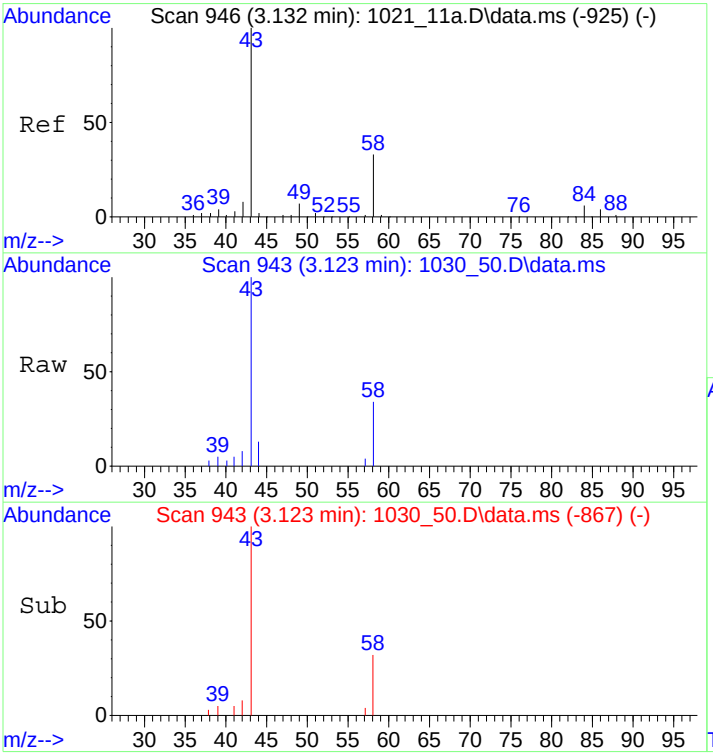


#13
ACROLEIN
Concen: 2.6104723 ppb
RT: 2.933 min Scan# 884
Delta R.T. -0.023 min
Lab File: 1030 50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion: 56 Resp: 1861

Ion	Ratio	Lower	Upper
56	100		
55	128.9	55.2	82.8#

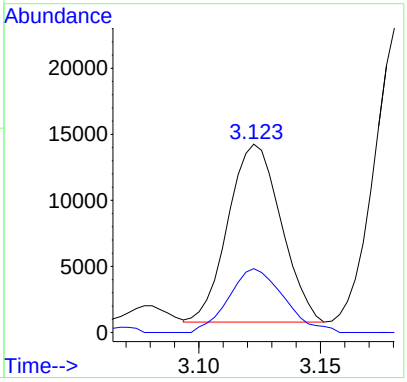


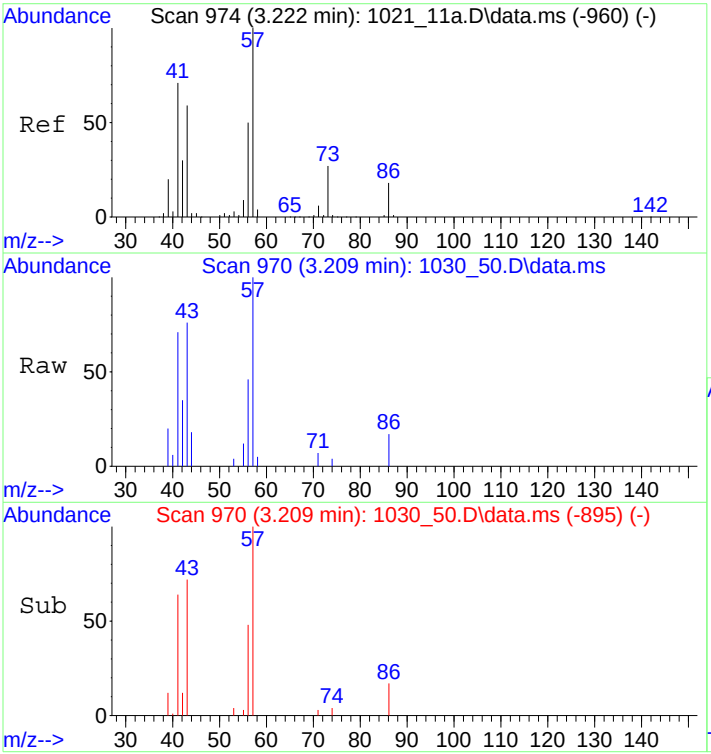


#16
ACETONE
Concen: 14.4006076 ppb
RT: 3.123 min Scan# 943
Delta R.T. -0.006 min
Lab File: 1030_50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion: 43 Resp: 20383

Ion	Ratio	Lower	Upper
43	100		
58	37.3	26.7	40.1

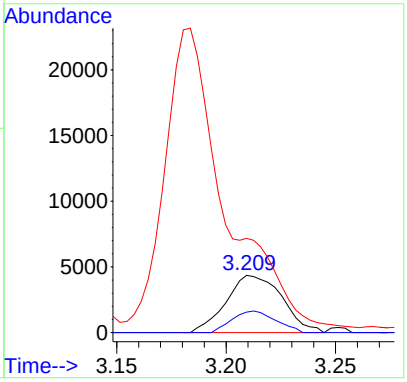


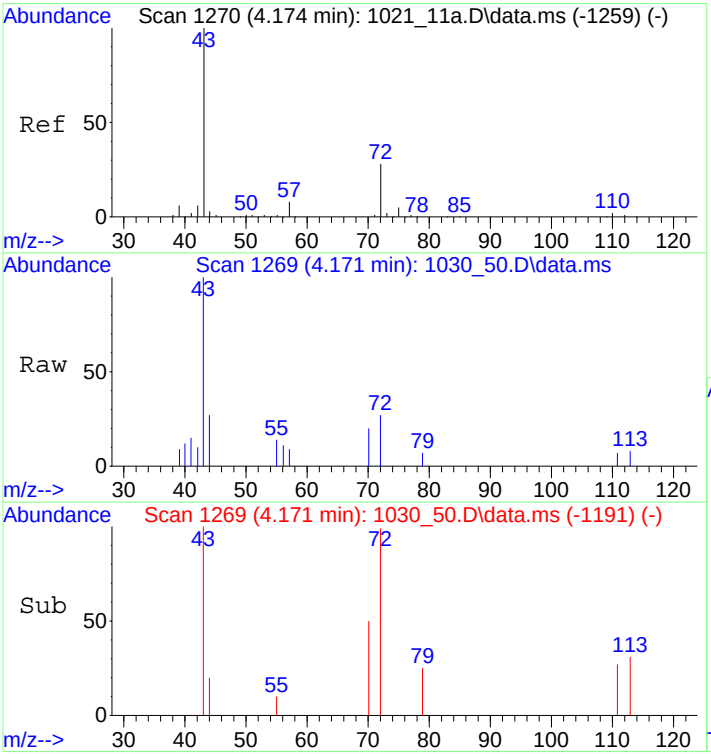


#21
n-Hexane
Concen: 1.3729680 ppb
RT: 3.209 min Scan# 970
Delta R.T. -0.010 min
Lab File: 1030 50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion: 56 Resp: 7772

Ion	Ratio	Lower	Upper
56	100		
86	29.4	26.0	39.0
43	0.0	139.6	209.4#

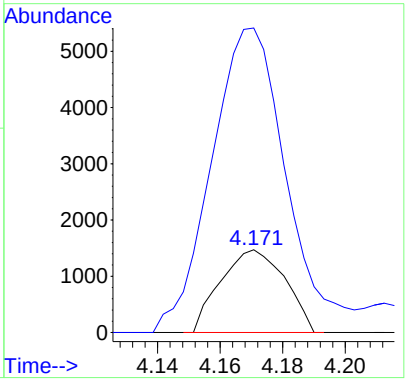


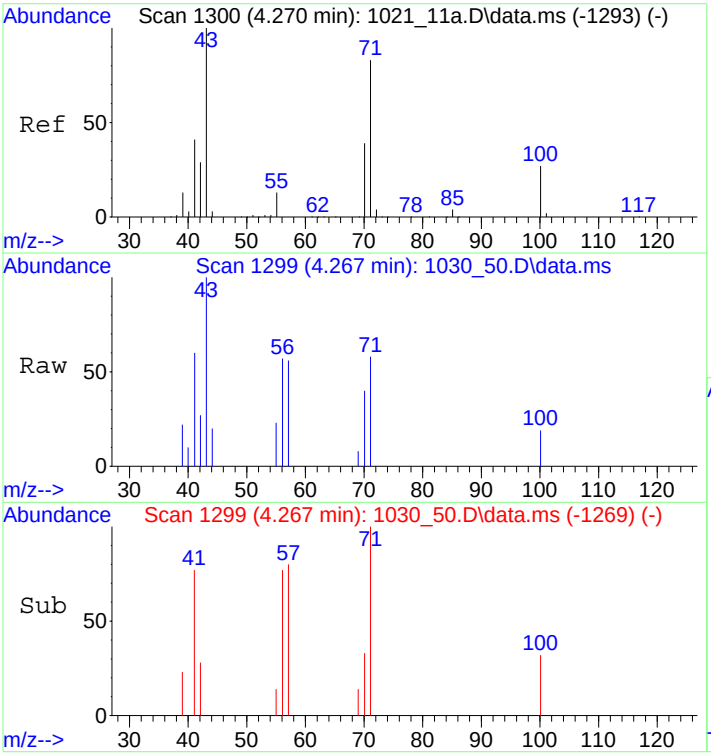


#29
2-BUTANONE (MEK)
Concen: 3.5564214 ppb
RT: 4.171 min Scan# 1269
Delta R.T. -0.000 min
Lab File: 1030_50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion: 72 Resp: 2104

Ion	Ratio	Lower	Upper
72	100		
43	427.4	249.8	374.8#

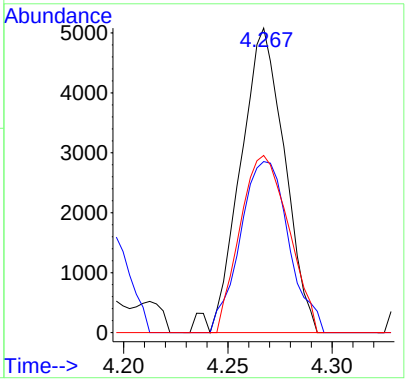


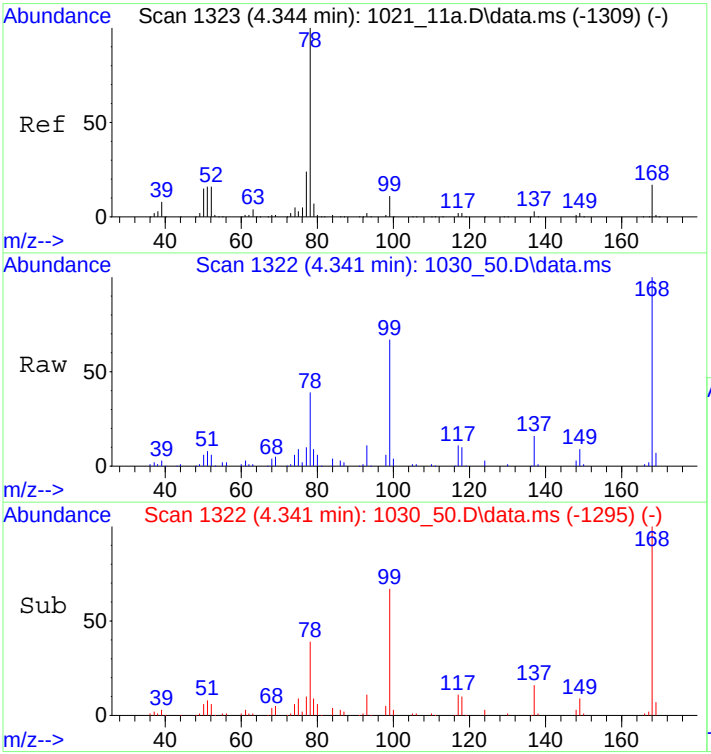


#38
HEPTANE
Concen: 0.8982333 ppb
RT: 4.267 min Scan# 1299
Delta R.T. -0.003 min
Lab File: 1030 50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion: 43 Resp: 7499

Ion	Ratio	Lower	Upper
43	100		
57	61.8	0.0	0.0#
71	64.0	55.0	82.6

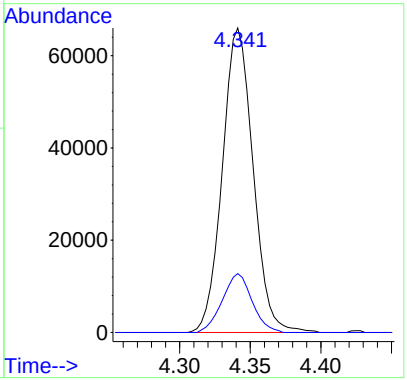


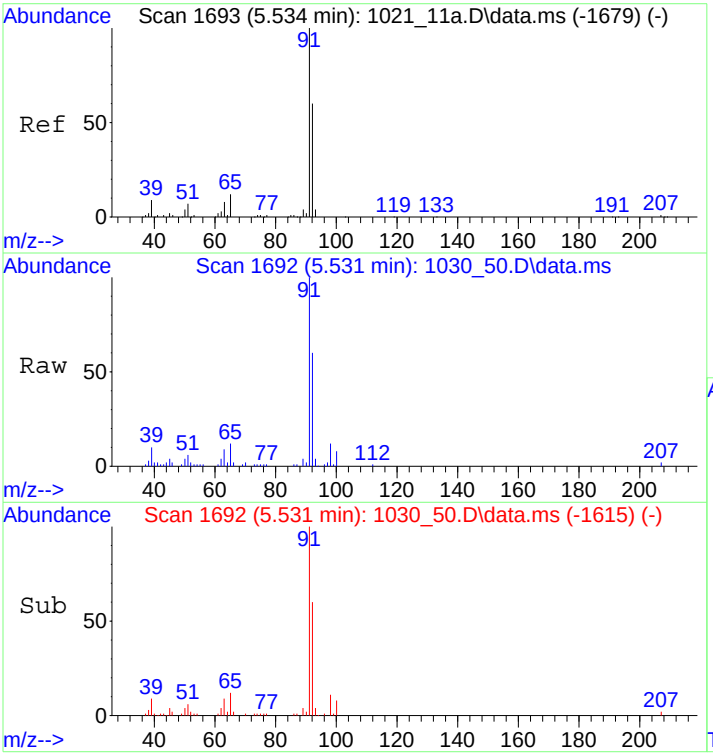


#39
BENZENE
Concen: 3.9592720 ppb
RT: 4.341 min Scan# 1322
Delta R.T. -0.003 min
Lab File: 1030_50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion: 78 Resp: 99986

Ion	Ratio	Lower	Upper
78	100		
51	18.7	13.4	20.0

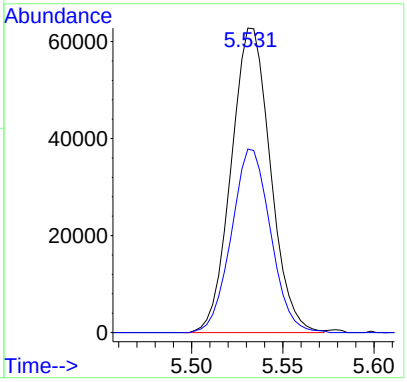


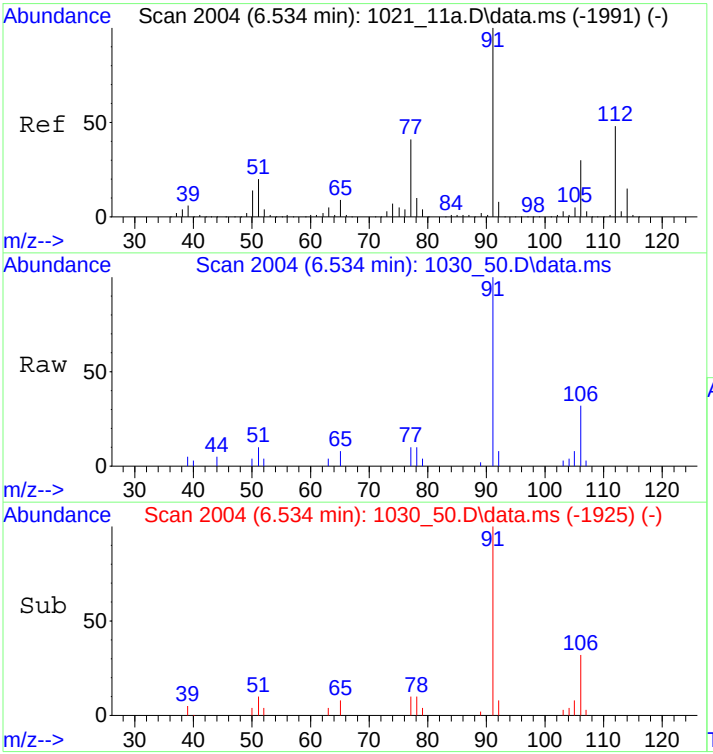


#51
TOLUENE
Concen: 3.3632352 ppb
RT: 5.531 min Scan# 1692
Delta R.T. -0.003 min
Lab File: 1030 50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion: 91 Resp: 93955

Ion	Ratio	Lower	Upper
91	100		
92	60.1	47.4	71.2

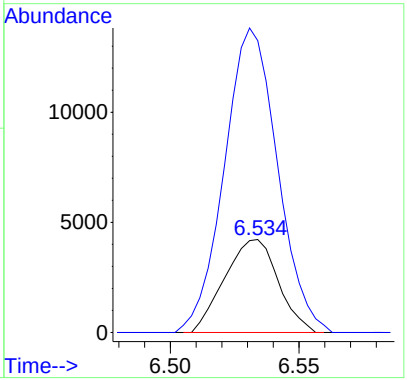


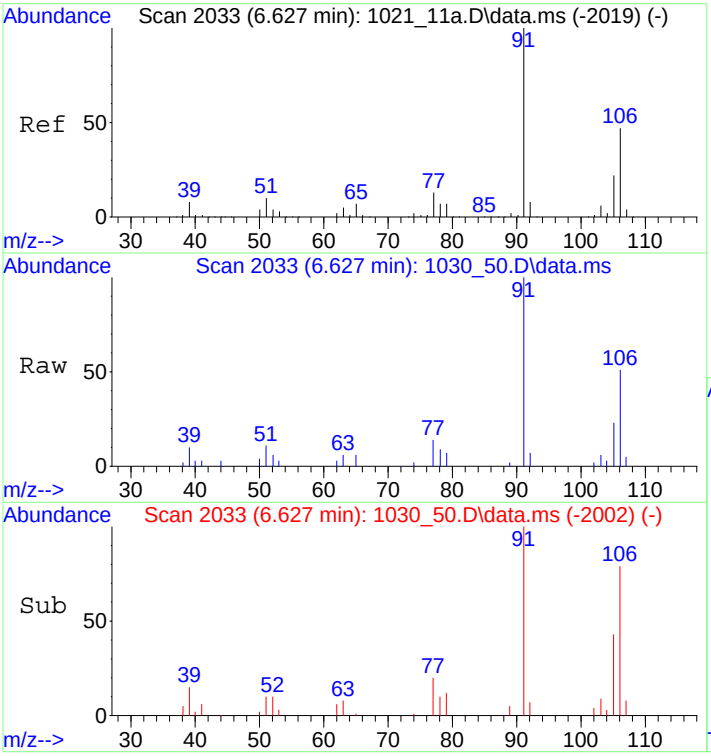


#62
ETHYLBENZENE
Concen: 0.5794760 ppb
RT: 6.534 min Scan# 2004
Delta R.T. 0.003 min
Lab File: 1030_50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion:106 Resp: 6096

Ion	Ratio	Lower	Upper
106	100		
91	325.7	258.1	387.1

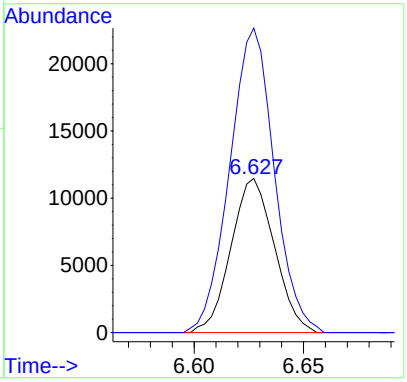


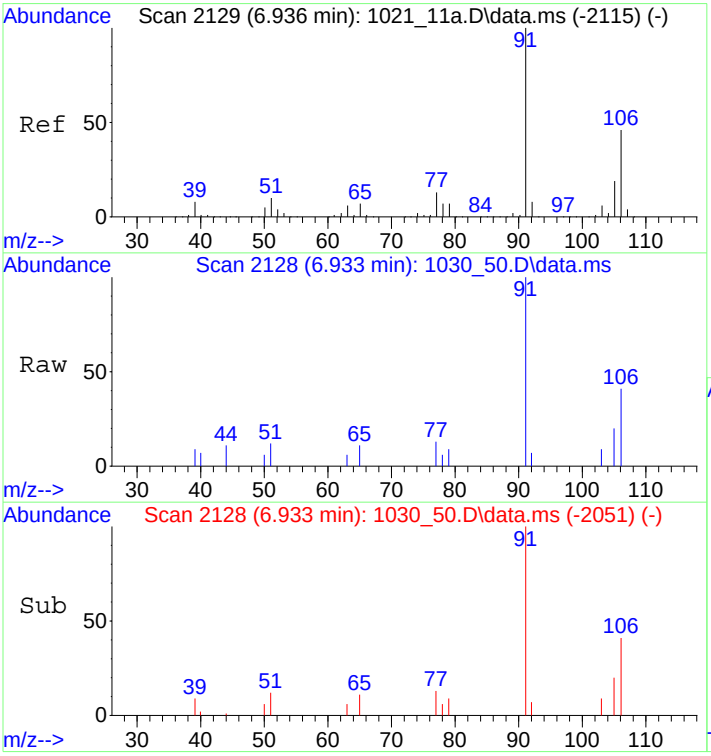


#63
M&P-XYLENE
Concen: 1.2170619 ppb
RT: 6.627 min Scan# 2033
Delta R.T. -0.000 min
Lab File: 1030 50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion:106 Resp: 15867

Ion	Ratio	Lower	Upper
106	100		
91	202.3	165.2	247.8

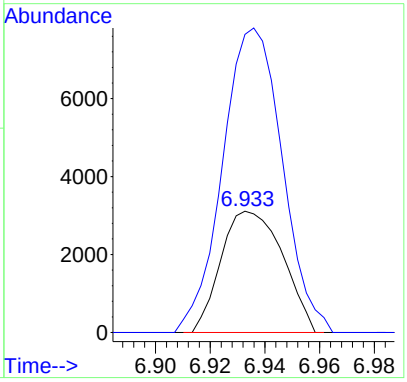


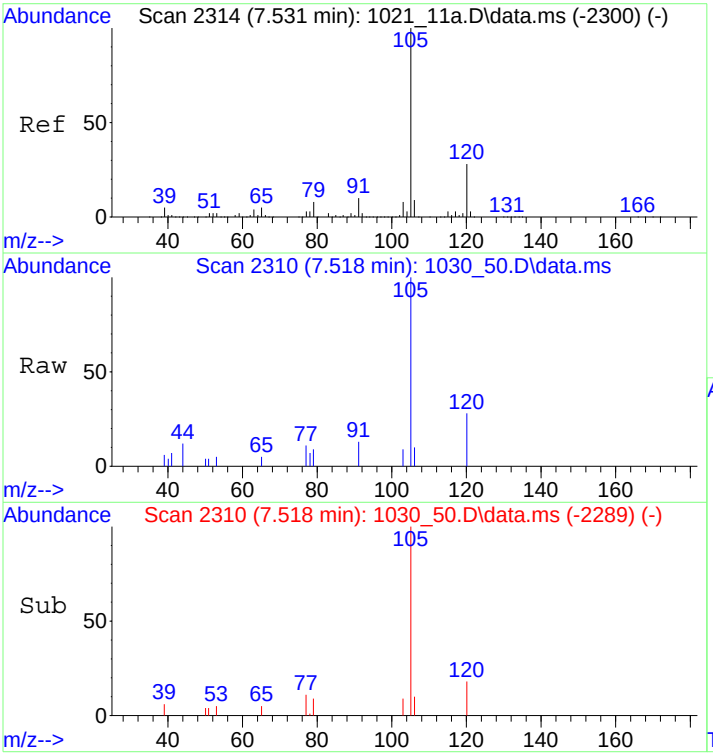


#64
O-XYLENE
Concen: 0.3869788 ppb
RT: 6.933 min Scan# 2128
Delta R.T. -0.003 min
Lab File: 1030_50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion:106 Resp: 4888

Ion	Ratio	Lower	Upper
106	100		
91	242.4	171.7	257.5

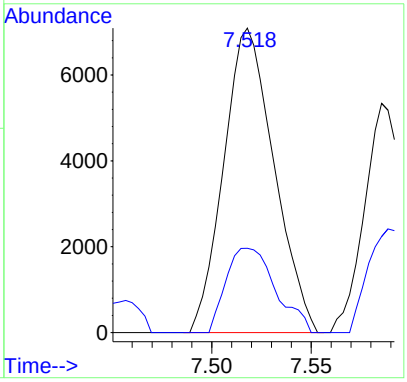


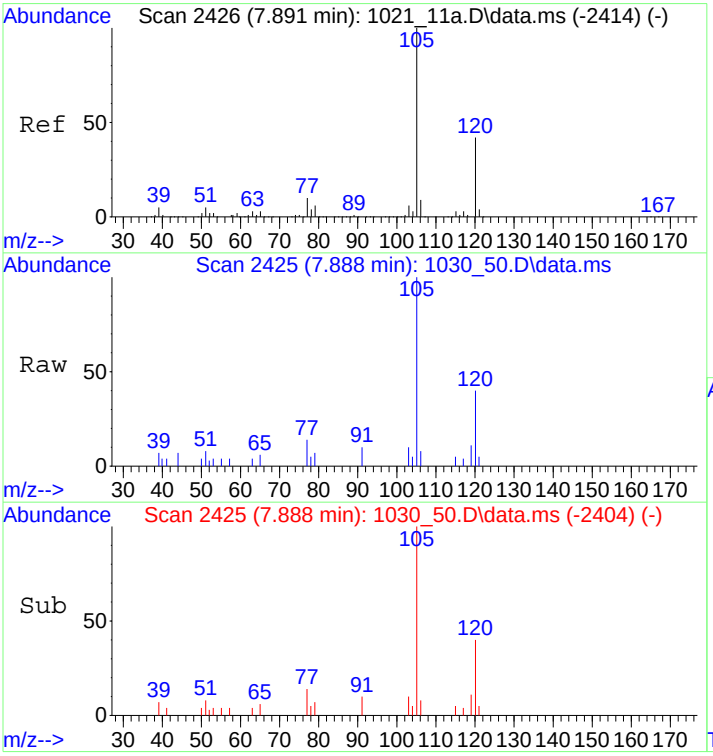


#74
4-ETHYLTOLUENE
Concen: 0.3773131 ppb
RT: 7.518 min Scan# 2310
Delta R.T. -0.013 min
Lab File: 1030 50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion:105 Resp: 12493

Ion	Ratio	Lower	Upper
105	100		
120	27.2	22.9	34.3

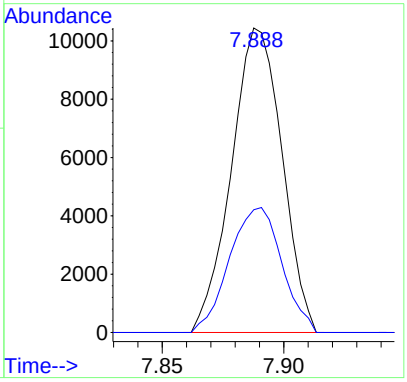


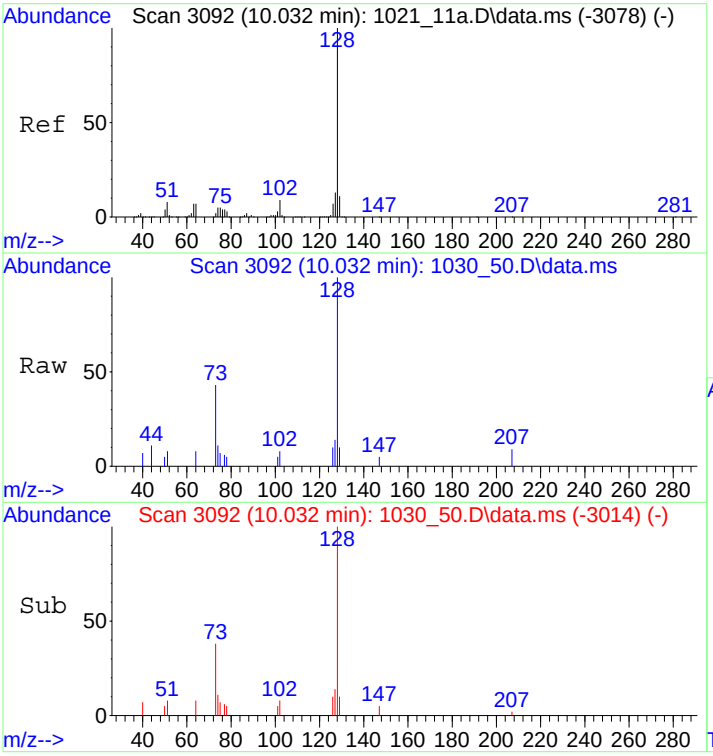


#79
1,2,4-Trimethylbenzene
Concen: 0.5313496 ppb
RT: 7.888 min Scan# 2425
Delta R.T. -0.003 min
Lab File: 1030_50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion:105 Resp: 15112

Ion	Ratio	Lower	Upper
105	100		
120	42.5	35.8	53.8

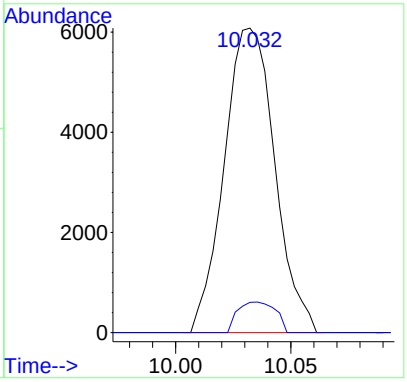




#92
Naphthalene
Concen: 0.4262316 ppb
RT: 10.032 min Scan# 3092
Delta R.T. -0.000 min
Lab File: 1030 50.D
Acq: 31 Oct 2014 2:42 am

Tgt Ion:128 Resp: 9277

Ion	Ratio	Lower	Upper
128	100		
129	7.5	8.7	13.1#



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 6:51:29 PM

Run ID : 102614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1026_01	INSTBLK	V821I16N						1	1	10/26/14 1138	"water SSURR14I25028"
2	1026_01T	INSTBLK VMS								1	10/26/14 1138	
3	1026_02	ICV VMS 25 PPB 14J25614	V821I16N						1	1	10/26/14 1201	"water SSURR14I25028"
4	1026_02T	ICV VMS 25 ppb 14J25614	V821I16N							1	10/26/14 1201	
5	1026_03	LCS	V821I16N	WG750683	V8260	GW			1	1	10/26/14 1242	"water SSURR14I25028/SPK14J25615"
6	1026_04	LCSD	V821I16N	WG750683	V8260	GW			1	1	10/26/14 1304	"water SSURR14I25028/SPK14J25615"
7	1026_05	MS	V821I16N	WG750683	V8260	GW			1	1	10/26/14 1408	"water SSURR14I25028/SPK14J25615"
8	1026_06	MSD	V821I16N	WG750683	V8260	GW			1	1	10/26/14 1430	"water SSURR14I25028/SPK14J25615"
9	1026_07	INSTBLK	V821I16N						1	1	10/26/14 1452	"water SSURR14I25028"
10	1026_08	INSTBLK	V821I16N						1	1	10/26/14 1514	"water SSURR14I25028"
11	1026_09	INSTBLK	V821I16N						1	1	10/26/14 1537	"water SSURR14I25028"
12	1026_10	INSTBLK	V821I16N						1	1	10/26/14 1608	"water SSURR14I25028"
13	1026_11	BLANK	V821I16N	WG750683	V8260	GW			1	1	10/26/14 1630	"water SSURR14I25028"
14	1026_12	L729528-49 (TB)	V821I16N	WG750683	V8260	GW	FTNFAR	AR	1	1	10/26/14 1652	"water SSURR14I25028"
15	1026_13	L729559-03 (TB)	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 1743	"water SSURR14I25028"
16	1026_14	L729561-07 (TB)	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 1805	"water SSURR14I25028"
17	1026_15	L729563-03 (TB)	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 1828	"water SSURR14I25028"
18	1026_16	L729564-03 (TB)	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 1850	"water SSURR14I25028"
19	1026_17	L729566-04 (TB)	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 1912	"water SSURR14I25028"
20	1026_18	L729568-03	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 1934	"water SSURR14I25028"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

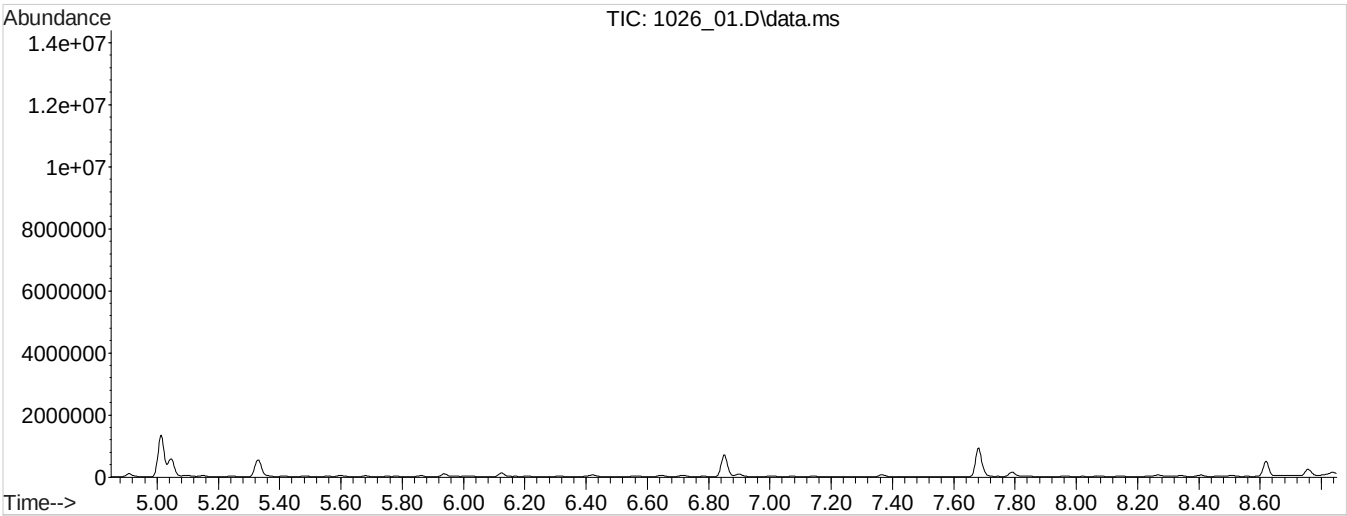
Instrument ID : VOCMS21
Computer Name : VOCCOMPAI
Released By : Ben Baker
Date Released : 10/28/2014 6:51:29 PM
Run ID : 102614
Signature : _____

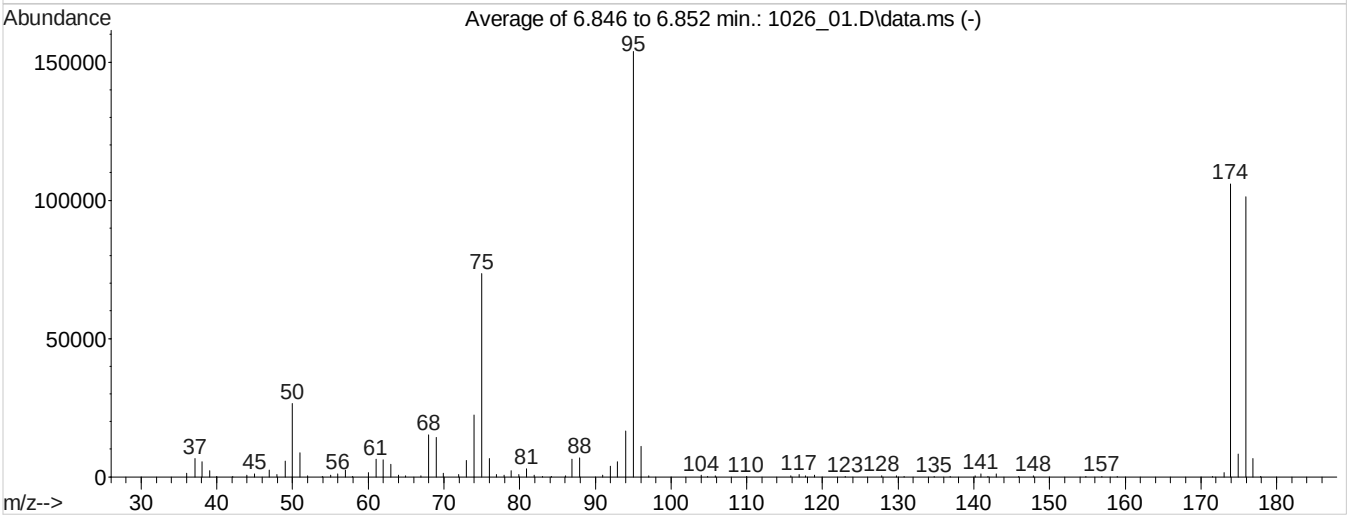
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
21	1026_19	L729559-02	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 1956	"water SSURR14I25028"
22	1026_20	L729528-44	V821I16N	WG750683	V8260	GW	FTNFAR	AR	500	500	10/26/14 2018	"water SSURR14I25028"
23	1026_21	L729528-45	V821I16N	WG750683	V8260	GW	FTNFAR	AR	500	500	10/26/14 2040	"water SSURR14I25028"
24	1026_22	L729528-46	V821I16N	WG750683	V8260	GW	FTNFAR	AR	1	1	10/26/14 2103	"water SSURR14I25028"
25	1026_23	L729528-47	V821I16N	WG750683	V8260	GW	FTNFAR	AR	20	20	10/26/14 2124	"water SSURR14I25028"
26	1026_24	L729561-02	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 2146	"water SSURR14I25028"
27	1026_25	L729561-04	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 2209	"water SSURR14I25028"
28	1026_26	L729561-06	V821I16N	WG750683	V8260	GW	URSTAZ	NM	1	1	10/26/14 2231	"water SSURR14I25028"
29	1026_27	L729579-01	V821I16N	WG750683	V8260	GW	CCGCTX	GA	1	1	10/26/14 2253	"water SSURR14I25028"
30	1026_28	L729579-02	V821I16N	WG750683	V8260	GW	CCGCTX	GA	1	1	10/26/14 2315	"water SSURR14I25028"
31	1026_29	L729579-03	V821I16N	WG750683	V8260	GW	CCGCTX	GA	1	1	10/26/14 2337	"water SSURR14I25028"
32	1026_30	L729579-04	V821I16N	WG750683	V8260	GW	CCGCTX	GA	1	1	10/26/14 2359	"water SSURR14I25028"
33	1026_31	L729597-01	V821I16N	WG750683	V8260	GW	OMIHAL	AL	1	1	10/27/14 0021	"water SSURR14I25028"

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 01.D
Acq On : 26 Oct 2014 11:38 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 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	17.2	26488	PASS
75	95	30	60	47.8	73600	PASS
95	95	100	100	100.0	153877	PASS
96	95	5	9	7.2	11115	PASS
173	174	0.00	2	1.3	1420	PASS
174	95	50	150	68.8	105827	PASS
175	174	5	9	7.7	8173	PASS
176	174	95	101	95.8	101331	PASS
177	176	5	9	6.5	6577	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 02.D
Acq On : 26 Oct 2014 12:01 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J25614
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:35:54 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	345012	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	614732	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	104522	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	252783	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	345012	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	614732	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	104522	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	252783	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	167123	38.5983514 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.50%		
46) a,a,a-Trifluorotoluene	4.569	146	322208	42.0947135 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.24%		
50) TOLUENE-D8	5.013	98	774964	39.3543861 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.39%		
68) 4-BROMOFLUOROBENZENE	6.849	95	270700	39.9507172 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.88%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	6989465	No Calib	
3) PROPENE	1.447	41	43478	27.1482778 ppb	98
4) DICHLORODIFLUOROMETHANE	1.483	85	143087	27.1169206 ppb	98
5) CHLOROMETHANE	1.631	50	227449	27.0798184 ppb	98
6) VINYL CHLORIDE	1.688	62	226973	25.1725105 ppb	93
7) 1,3-BUTADIENE	1.701	39	157704	23.8815332 ppb	96
8) BROMOMETHANE	1.907	94	123687	30.0073639 ppb	100
9) CHLOROETHANE	1.991	66	45865	31.5908836 ppb	99
10) TRICHLOROFLUOROMETHANE	2.084	101	210356	27.4543735 ppb	100
11) DICHLOROFLUOROMETHANE	2.110	67	314867	27.2893037 ppb	98
12) ETHYL ETHER	2.264	59	139009	26.8202818 ppb	99
13) ACROLEIN	2.576	56	132454	146.7644804 ppb	98
14) 1,1-DICHLOROETHENE	2.389	61	251279	27.5892099 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	167858	28.3243526 ppb	99
16) ACETONE	2.737	43	194362	116.8456169 ppb	99
17) IODOMETHANE	2.476	142	1136035	151.4288322 ppb	100
18) CARBON DISULFIDE	2.418	76	578211	27.5476117 ppb	100
19) METHYLENE CHLORIDE	2.714	84	166693	23.9839975 ppb	100
20) ACRYLONITRILE	3.158	53	282594	137.1647456 ppb	97
21) n-Hexane	2.843	56	191530	24.8171932 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.807	96	163892	25.7259336 ppb	96
23) METHYL TERT-BUTYL ETHER	2.856	73	455777	25.2893640 ppb	97
24) 1,1-DICHLOROETHANE	3.139	63	327863	25.9590394 ppb	99
25) VINYL ACETATE	3.251	43	1610182	159.8064298 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	611707	25.9434265 ppb	99
27) 2,2-Dichloropropane	3.486	77	255509	27.9077453 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.428	96	169795	25.5956142 ppb	99
29) 2-BUTANONE (MEK)	3.721	72	88964	120.8519815 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	85419	26.2877302 ppb	96
31) TETRAHYDROFURAN	3.666	42	47410	23.4971884 ppb #	89
32) CHLOROFORM	3.563	83	271149	25.5408769 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.688	97	225945	26.0337686 ppb	98
35) CARBON TETRACHLORIDE	3.659	117	206216	26.8601708 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 02.D
Acq On : 26 Oct 2014 12:01 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J25614
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:35:54 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	260774	26.0878036 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	1162409	34.4222663 ppb		96
38) HEPTANE	3.843	43	379030	27.9383881 ppb		98
39) BENZENE	3.888	78	742319	25.8721534 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	185727	24.5765389 ppb		98
42) TRICHLOROETHENE	4.209	130	154641	25.9168417 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	136393	27.3562101 ppb		99
44) DIBROMOMETHANE	4.450	93	80185	26.5353722 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	193923	26.6300865 ppb		97
47) 2-CHLOROETHYL VINYL ETHER	4.839	63	95732	56.0883008 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.897	75	280111	29.1918902 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	308276	133.3854368 ppb		98
51) TOLUENE	5.045	91	856031	29.2207812 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	54827	29.1340555 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.392	97	125708	25.5502723 ppb		97
55) TETRACHLOROETHENE	5.296	164	118665	27.8768304 ppb		95
56) 1,3-Dichloropropane	5.573	76	251175	25.5205581 ppb		100
57) 2-HEXANONE	5.788	58	294519	138.6672204 ppb		99
58) CHLORODIBROMOMETHANE	5.518	129	118630	27.3796030 ppb		100
59) 1,2-DIBROMOETHANE	5.685	107	118024	27.4942621 ppb		98
60) CHLOROBENZENE	6.023	112	433501	25.7153773 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	126824	28.5847984 ppb		98
62) ETHYLBENZENE	6.026	106	259101	27.9056886 ppb		97
63) M&P-XYLENE	6.119	106	641154	56.1314392 ppb		99
64) O-XYLENE	6.421	106	292948	26.9781475 ppb		99
65) STYRENE	6.457	104	479691	27.6928727 ppb		97
66) Bromoform	6.486	173	70411	30.3458822 ppb		100
67) Isopropylbenzene	6.634	105	802821	27.6687116 ppb		100
69) Bromobenzene	6.933	77	354176	26.1520409 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	175044	27.4141250 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.084	110	44177	25.5921355 ppb		95
72) TRANS-1,4-DICHLORO-2-B...	7.109	53	44511	27.8640660 ppb	#	93
73) n-Propylbenzene	6.933	91	1002687	27.8391456 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	796495	28.0594112 ppb		99
75) 2-Chlorotoluene	7.061	126	178624	27.8234257 ppb		94
76) 4-Chlorotoluene	7.180	91	562367	27.5904599 ppb		97
77) 1,3,5-Trimethylbenzene	7.068	105	665703	27.0927814 ppb		97
78) tert-Butylbenzene	7.309	119	553774	27.7774585 ppb		98
79) 1,2,4-Trimethylbenzene	7.363	105	652319	27.9179874 ppb		98
80) sec-Butylbenzene	7.444	105	914415	27.5595700 ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	319317	28.6326220 ppb		100
82) p-Isopropyltoluene	7.547	119	727266	28.4940889 ppb		98
83) DICYCLOPENTADIENE	7.547	66	915834	27.2844918 ppb		100
85) 1,4-DICHLOROBENZENE	7.691	146	323173	26.5768870 ppb		92
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	667559	26.4447844 ppb		99
87) 1,2-DICHLOROBENZENE	8.016	146	283599	26.7587955 ppb		97
88) n-Butylbenzene	7.871	91	718667	28.9308838 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	22868	26.7789584 ppb		95
90) 1,2,4-Trichlorobenzene	9.193	180	177736	30.9725951 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	96483	27.9170444 ppb		97
92) Naphthalene	9.453	128	384078	26.1218703 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	149477	29.4435955 ppb		99
94) 1-Methylnaphthalene	10.322	142	166667	No Calib		
95) 2-Methylnaphthalene	10.453	142	134742	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 02.D
Acq On : 26 Oct 2014 12:01 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J25614
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:35:54 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

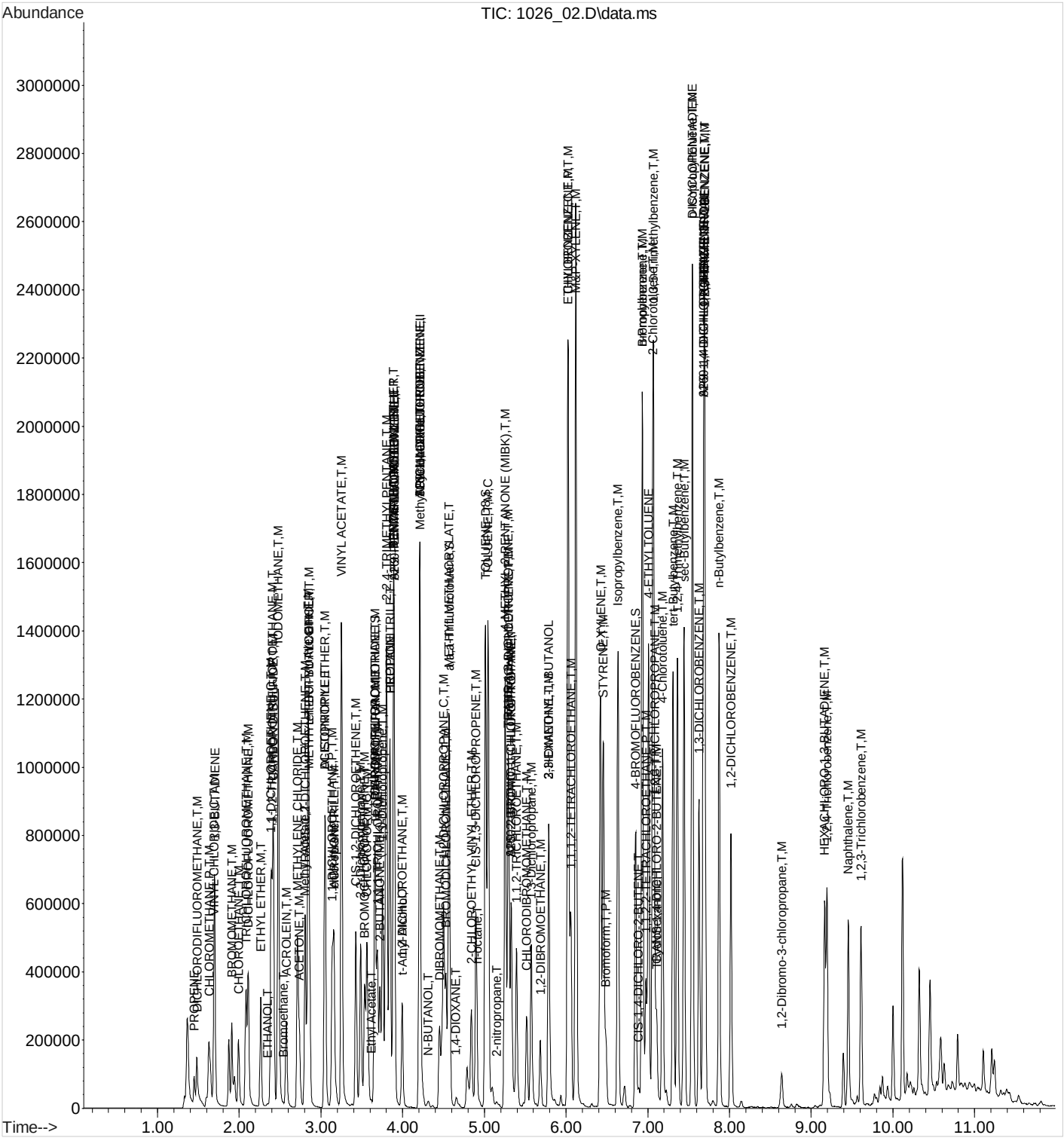
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.344	45	2307	38.8564293 ppb	#	43
98)	Bromoethane	2.541	108	2355	0.5987656 ppb		96
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.801	43	6066	1.6075455 ppb	#	96
101)	ACETONITRILE	3.049	41	87701	118.5851185 ppb	#	38
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	2.852	59	1039	1.3449749 ppb	#	1
104)	chloroprene	3.158	53	282594	46.2607984 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	3.196	59	780	N.D.		
106)	PROPIONITRILE	3.843	54	3210	3.9447442 ppb	#	1
107)	Ethyl Acetate	3.614	43	4862	0.9210054 ppb	#	12
108)	METHACRYLONITRILE	3.894	67	1046	0.4149546 ppb	#	1
109)	Cyclohexane	3.515	56	1765	N.D.		
110)	tert-butyl formate	3.791	59	578	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	4.000	59	905	1.9095078 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.888	73	12310	0.7078651 ppb	#	62
115)	N-BUTANOL	4.312	56	7557	180.7712282 ppb	#	81
116)	Methyl Cyclohexane	4.212	83	25354	1.9977045 ppb	#	81
117)	2-nitropropane	5.148	43	6319	5.5844688 ppb	#	39
118)	METHYL METHACRYLATE	4.566	41	31367	5.8607922 ppb	#	92
119)	1,4-DIOXANE	4.647	88	998	15.5804410 ppb	#	1
120)	n-octane	4.910	85	10719	1.7695960 ppb	#	77
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	102439	258.1653805 ppb	#	57
123)	ETHYL METHACRYLATE	5.319	69	652	N.D.		
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2430	1.5228439 ppb	#	13
125)	Cyclohexanone	7.106	55	626	0.4711161 ppb	#	23
126)	PENTACHLOROETHANE	7.363	117	21886	No Calib	#	
127)	Hexachloroethane	8.000	117	929	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 02.D
Acq On : 26 Oct 2014 12:01 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J25614
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

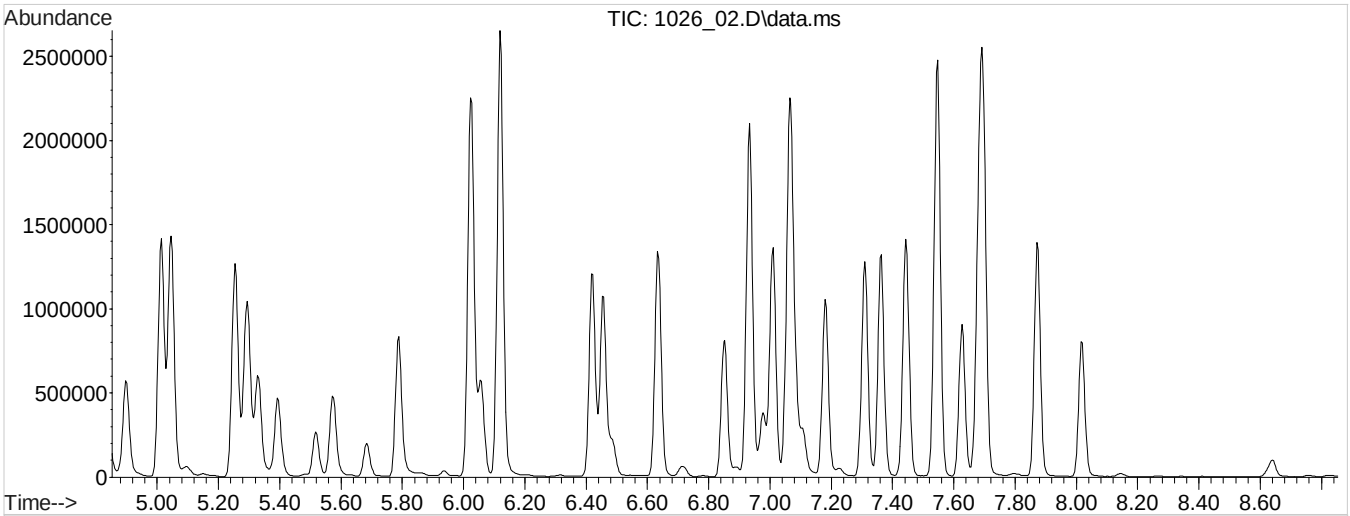
InstName : VOCMS21
Quant Time: Oct 28 18:35:54 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

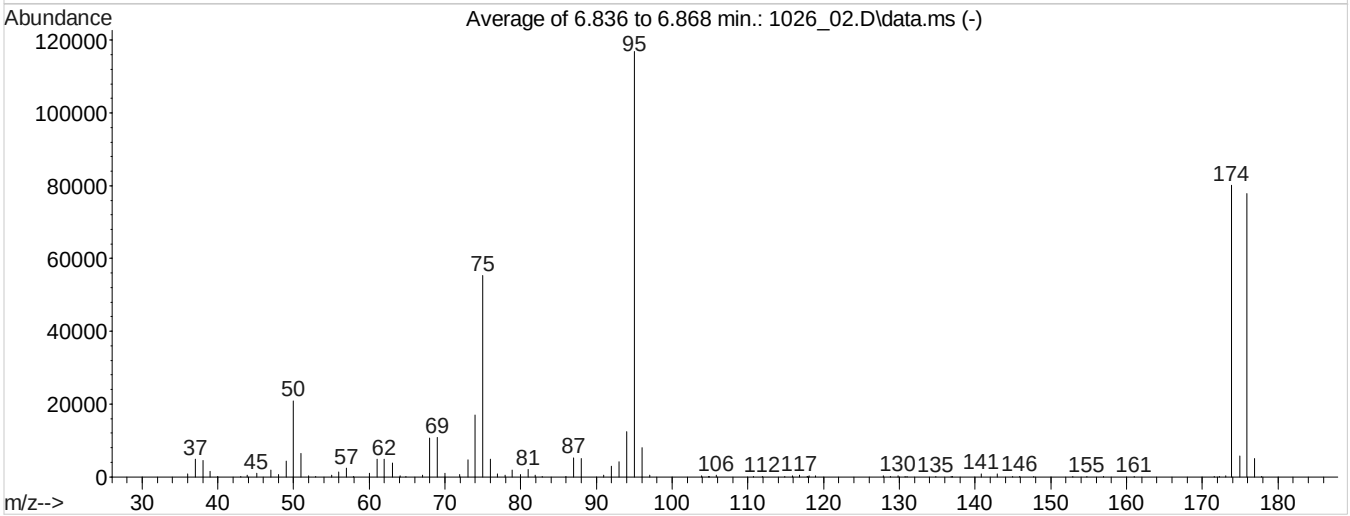


Data Path : C:\msdchem\1\data\102614\
Data File : 1026 02.D
Acq On : 26 Oct 2014 12:01 pm
Operator : 644
Sample : ICV VMS 25 ppb 14J25614
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

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 6.836 to 6.868 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	20862	PASS
75	95	30	60	47.3	55284	PASS
95	95	100	100	100.0	116951	PASS
96	95	5	9	6.8	7945	PASS
173	174	0.00	2	0.3	251	PASS
174	95	50	150	68.5	80097	PASS
175	174	5	9	7.2	5742	PASS
176	174	95	101	97.2	77888	PASS
177	176	5	9	6.5	5046	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 03.D
Acq On : 26 Oct 2014 12:42 pm
Operator : 644
Sample : LCS 1x WG750683
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:19 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	344983	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	620124	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	105864	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	259593	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	344983	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	620124	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	105864	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	259593	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.659	111	172094	39.7497835 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.37%		
46) a,a,a-Trifluorotoluene	4.566	146	324769	42.0603700 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.15%		
50) TOLUENE-D8	5.013	98	792778	39.9089668 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.77%		
68) 4-BROMOFLUOROBENZENE	6.849	95	273974	39.9213378 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.80%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7062725	No Calib	
3) PROPENE	1.450	41	37799	23.4911673 ppb	98
4) DICHLORODIFLUOROMETHANE	1.483	85	130283	24.6924650 ppb	99
5) CHLOROMETHANE	1.627	50	212617	25.3074311 ppb	99
6) VINYL CHLORIDE	1.688	62	215371	23.8877950 ppb	93
7) 1,3-BUTADIENE	1.701	39	151170	22.8939967 ppb	99
8) BROMOMETHANE	1.907	94	121510	29.4517817 ppb	99
9) CHLOROETHANE	1.991	66	43633	30.0560535 ppb	96
10) TRICHLOROFLUOROMETHANE	2.081	101	207154	27.0387409 ppb	100
11) DICHLOROFLUOROMETHANE	2.110	67	306846	26.5963648 ppb	100
12) ETHYL ETHER	2.261	59	138502	26.7247080 ppb	98
13) ACROLEIN	2.576	56	136508	151.2691941 ppb	96
14) 1,1-DICHLOROETHENE	2.389	61	243057	26.6887177 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	163426	27.5788153 ppb	99
16) ACETONE	2.737	43	203752	122.5009490 ppb	100
17) IODOMETHANE	2.476	142	1153888	153.8214938 ppb	100
18) CARBON DISULFIDE	2.418	76	582699	27.7637664 ppb	99
19) METHYLENE CHLORIDE	2.711	84	165266	23.7806778 ppb	99
20) ACRYLONITRILE	3.158	53	307118	149.0806723 ppb	98
21) n-Hexane	2.843	56	198530	25.7263695 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.807	96	165709	26.0133325 ppb	97
23) METHYL TERT-BUTYL ETHER	2.856	73	473399	26.2693511 ppb	100
24) 1,1-DICHLOROETHANE	3.135	63	332117	26.2980667 ppb	98
25) VINYL ACETATE	3.251	43	1535795	152.4365241 ppb	99
26) DI-ISOPROPYL ETHER	3.048	45	633257	26.8596525 ppb	99
27) 2,2-Dichloropropane	3.486	77	252321	27.5618556 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	174661	26.3313489 ppb	99
29) 2-BUTANONE (MEK)	3.720	72	96578	131.2061486 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	86274	26.5530887 ppb	96
31) TETRAHYDROFURAN	3.663	42	51844	25.6969129 ppb #	93
32) CHLOROFORM	3.563	83	274784	25.8854515 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.688	97	228976	26.3852234 ppb	99
35) CARBON TETRACHLORIDE	3.656	117	208576	27.1698507 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 03.D
Acq On : 26 Oct 2014 12:42 pm
Operator : 644
Sample : LCS 1x WG750683
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:19 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	262789	26.2915939 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	1083140	32.0775800 ppb		97
38) HEPTANE	3.843	43	380012	28.0131262 ppb		98
39) BENZENE	3.888	78	756809	26.3793928 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	192600	25.4881589 ppb		98
42) TRICHLOROETHENE	4.209	130	156341	25.9739256 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	136738	27.1869415 ppb		99
44) DIBROMOMETHANE	4.450	93	82557	27.0827795 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	205154	27.9274014 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.839	63	96277	55.9171440 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.897	75	284658	29.4078129 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.254	58	332559	142.6411025 ppb		97
51) TOLUENE	5.045	91	824668	27.9054323 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	57113	30.0849099 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.392	97	131482	26.3850748 ppb		98
55) TETRACHLOROETHENE	5.296	164	117054	27.1497866 ppb		97
56) 1,3-Dichloropropane	5.572	76	264330	26.5167091 ppb		99
57) 2-HEXANONE	5.788	58	321091	149.2615810 ppb		100
58) CHLORODIBROMOMETHANE	5.518	129	123012	28.0310591 ppb		97
59) 1,2-DIBROMOETHANE	5.682	107	123829	28.4808874 ppb		99
60) CHLOROBENZENE	6.023	112	438016	25.6538283 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	129175	28.7456126 ppb		99
62) ETHYLBENZENE	6.023	106	258765	27.5162090 ppb		97
63) M&P-XYLENE	6.119	106	641053	55.4111508 ppb		98
64) O-XYLENE	6.418	106	296814	26.9876693 ppb		96
65) STYRENE	6.453	104	485729	27.6859790 ppb		97
66) Bromoform	6.486	173	72676	30.9249982 ppb		99
67) Isopropylbenzene	6.634	105	808421	27.5085191 ppb		99
69) Bromobenzene	6.933	77	356075	25.9589638 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	185388	28.6660722 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	48600	27.7975159 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.109	53	49465	30.5727541 ppb	#	94
73) n-Propylbenzene	6.933	91	992381	27.2037247 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	797658	27.7441636 ppb		100
75) 2-Chlorotoluene	7.061	126	176640	27.1655973 ppb		96
76) 4-Chlorotoluene	7.180	91	561658	27.2063620 ppb		97
77) 1,3,5-Trimethylbenzene	7.068	105	666702	26.7894778 ppb		97
78) tert-Butylbenzene	7.309	119	546513	27.0657369 ppb		99
79) 1,2,4-Trimethylbenzene	7.363	105	660243	27.8989139 ppb		100
80) sec-Butylbenzene	7.444	105	904130	26.9041569 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	319740	28.3071054 ppb		99
82) p-Isopropyltoluene	7.547	119	722384	27.9440288 ppb		98
83) DICYCLOPENTADIENE	7.547	66	905278	26.6281188 ppb		99
85) 1,4-DICHLOROBENZENE	7.691	146	323766	25.9271730 ppb		93
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	667845	25.7620810 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	289899	26.6356604 ppb		99
88) n-Butylbenzene	7.871	91	721067	28.2660097 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	26291	29.9797142 ppb		98
90) 1,2,4-Trichlorobenzene	9.193	180	174759	29.6549113 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	95921	27.0263392 ppb		98
92) Naphthalene	9.453	128	412253	27.1789837 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	150381	28.8445870 ppb		98
94) 1-Methylnaphthalene	10.322	142	184073	No Calib		
95) 2-Methylnaphthalene	10.453	142	163039	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 03.D
Acq On : 26 Oct 2014 12:42 pm
Operator : 644
Sample : LCS 1x WG750683
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:19 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

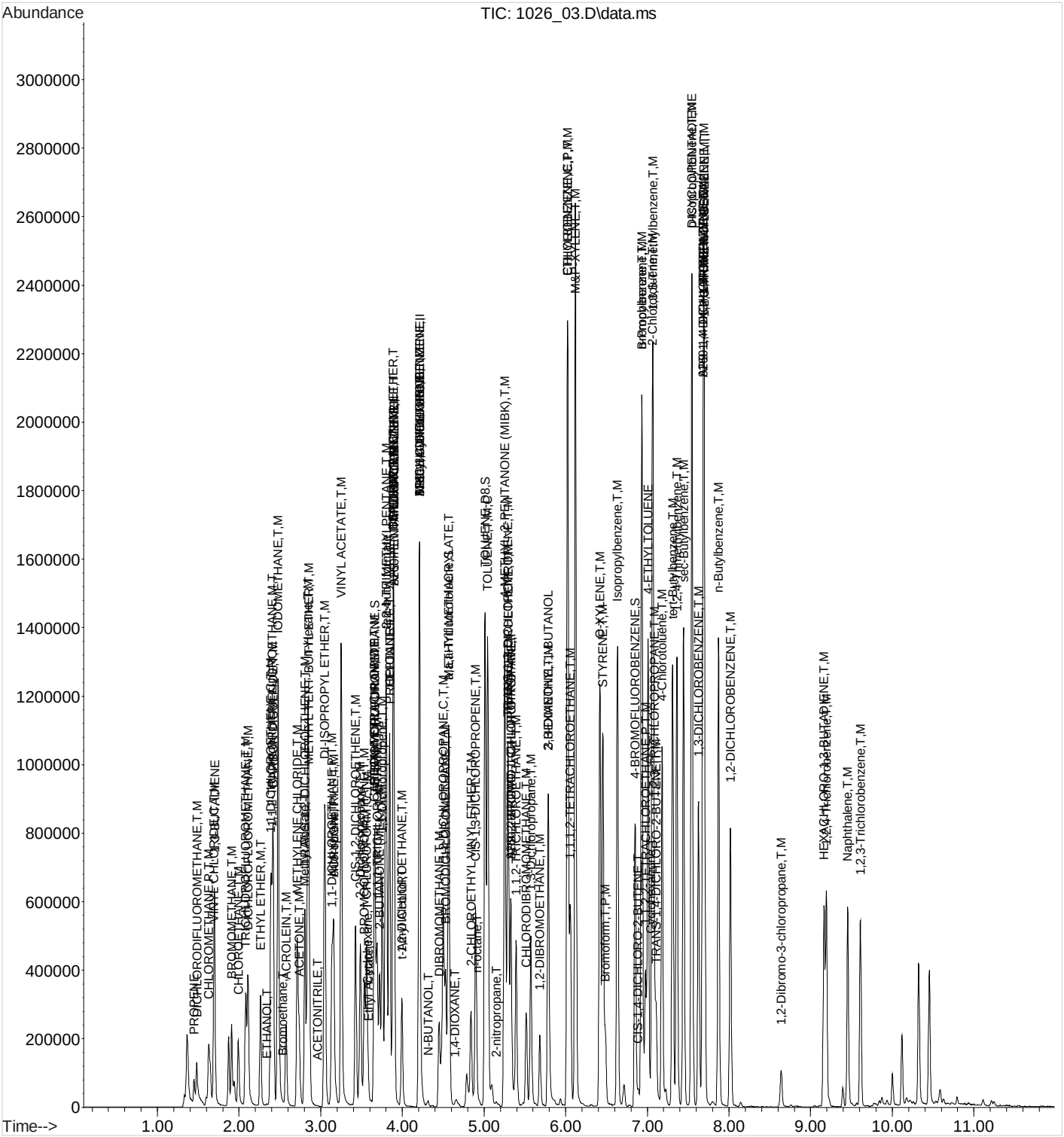
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.338	45	1469	24.7442102 ppb	#	53
98)	Bromoethane	2.537	108	1369	0.3481015 ppb		87
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.801	43	8614	2.2829808 ppb	#	98
101)	ACETONITRILE	2.958	41	1000	1.3522661 ppb	#	35
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	3.158	53	307118	50.2796174 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	3.193	59	632	N.D.		
106)	PROPIONITRILE	3.846	54	2649	3.2556093 ppb	#	1
107)	Ethyl Acetate	3.582	43	17530	3.3209751 ppb	#	58
108)	METHACRYLONITRILE	3.894	67	845	0.3352448 ppb	#	1
109)	Cyclohexane	3.576	56	25007	2.2887771 ppb	#	76
110)	tert-butyl formate	3.801	59	1025	0.4146924 ppb	#	1
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	3.991	59	1041	2.1966461 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.888	73	12056	0.6933176 ppb	#	65
115)	N-BUTANOL	4.315	56	5885	172.1998165 ppb	#	70
116)	Methyl Cyclohexane	4.209	83	21629	1.6893844 ppb	#	88
117)	2-nitropropane	5.148	43	4483	3.9274398 ppb	#	47
118)	METHYL METHACRYLATE	4.566	41	22954	4.2515667 ppb	#	78
119)	1,4-DIOXANE	4.643	88	813	12.5819233 ppb	#	1
120)	n-octane	4.910	85	8073	1.3211803 ppb	#	79
121)	3,3-DIMETHYL-1-BUTANOL	5.785	57	110827	276.5655489 ppb	#	53
123)	ETHYL METHACRYLATE	5.370	69	515	N.D.		
124)	CIS-1,4-DICHLORO-2-BUTENE	6.884	53	2402	1.4862146 ppb	#	29
125)	Cyclohexanone	7.045	55	5196	3.8608430 ppb	#	23
126)	PENTACHLOROETHANE	7.363	117	21691	No Calib	#	
127)	Hexachloroethane	8.003	117	876	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 03.D
Acq On : 26 Oct 2014 12:42 pm
Operator : 644
Sample : LCS 1x WG750683
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:19 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\102614\
Data File : 1026 04.D
Acq On : 26 Oct 2014 1:04 pm
Operator : 644
Sample : LCSD 1x WG750683
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:31 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	284803	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	509714	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	92931	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	231902	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	284803	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	509714	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	92931	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	231902	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.659	111	131975	36.9244338 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 92.31%		
46) a,a,a-Trifluorotoluene	4.566	146	273878	43.1526674 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.88%		
50) TOLUENE-D8	5.013	98	663280	40.6226054 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.56%		
68) 4-BROMOFLUOROBENZENE	6.849	95	238543	39.5958894 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.99%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8021125	No Calib	
3) PROPENE	1.447	41	34060	25.7194606 ppb	97
4) DICHLORODIFLUOROMETHANE	1.479	85	118527	27.2111643 ppb	99
5) CHLOROMETHANE	1.627	50	200012	28.8561020 ppb	99
6) VINYL CHLORIDE	1.685	62	188600	25.3386610 ppb	93
7) 1,3-BUTADIENE	1.698	39	122897	22.5450093 ppb	97
8) BROMOMETHANE	1.907	94	104084	30.6229901 ppb	99
9) CHLOROETHANE	1.991	66	36007	30.0439448 ppb	98
10) TRICHLOROFLUOROMETHANE	2.081	101	167700	26.5142494 ppb	99
11) DICHLOROFLUOROMETHANE	2.106	67	254005	26.6684157 ppb	100
12) ETHYL ETHER	2.261	59	112449	26.2824385 ppb	97
13) ACROLEIN	2.576	56	108020	144.9938886 ppb	98
14) 1,1-DICHLOROETHENE	2.386	61	195783	26.0404023 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	133701	27.3301645 ppb	100
16) ACETONE	2.737	43	154880	112.7940128 ppb	98
17) IODOMETHANE	2.476	142	959959	155.0098111 ppb	100
18) CARBON DISULFIDE	2.418	76	473176	27.3092613 ppb	99
19) METHYLENE CHLORIDE	2.711	84	131721	22.9587832 ppb	100
20) ACRYLONITRILE	3.158	53	235862	138.6842632 ppb	98
21) n-Hexane	2.839	56	152478	23.9338564 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.804	96	129031	24.5356232 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	368253	24.7526349 ppb	100
24) 1,1-DICHLOROETHANE	3.135	63	258827	24.8253528 ppb	99
25) VINYL ACETATE	3.251	43	1227020	147.5232816 ppb	100
26) DI-ISOPROPYL ETHER	3.048	45	494480	25.4051788 ppb	98
27) 2,2-Dichloropropane	3.486	77	196294	25.9725873 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.428	96	139395	25.4552576 ppb	99
29) 2-BUTANONE (MEK)	3.720	72	76340	125.6265030 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	69163	25.7846992 ppb	94
31) TETRAHYDROFURAN	3.666	42	42028	25.2333149 ppb	91
32) CHLOROFORM	3.563	83	217164	24.7802264 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.688	97	182157	25.4255181 ppb	97
35) CARBON TETRACHLORIDE	3.659	117	166344	26.2472129 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 04.D
Acq On : 26 Oct 2014 1:04 pm
Operator : 644
Sample : LCSD 1x WG750683
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:31 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	212070	25.7005315 ppb		100
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	822095	29.4911796 ppb		97
38)	HEPTANE	3.843	43	313053	27.9534407 ppb		98
39)	BENZENE	3.888	78	620721	26.2076500 ppb		100
40)	1,2-DICHLOROETHANE	3.994	62	162695	26.0801164 ppb		100
42)	TRICHLOROETHENE	4.209	130	132880	26.8581629 ppb		98
43)	1,2-DICHLOROPROPANE	4.502	62	111850	27.0557200 ppb		96
44)	DIBROMOMETHANE	4.450	93	68708	27.4219678 ppb		98
45)	BROMODICHLOROMETHANE	4.528	83	167907	27.8081001 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	4.839	63	73425	51.8821978 ppb		98
48)	CIS-1,3-DICHLOROPROPENE	4.897	75	240444	30.2207512 ppb		98
49)	4-METHYL-2-PENTANONE (...	5.254	58	289013	150.8152773 ppb		97
51)	TOLUENE	5.045	91	701875	28.8949111 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	47422	30.3910416 ppb		96
54)	1,1,2-TRICHLOROETHANE	5.392	97	116563	26.6465160 ppb		98
55)	TETRACHLOROETHENE	5.296	164	104155	27.5199711 ppb		97
56)	1,3-Dichloropropane	5.572	76	229844	26.2660054 ppb		99
57)	2-HEXANONE	5.788	58	282001	149.3338432 ppb		99
58)	CHLORODIBROMOMETHANE	5.518	129	107349	27.8661981 ppb		98
59)	1,2-DIBROMOETHANE	5.682	107	108546	28.4402012 ppb		100
60)	CHLOROBENZENE	6.023	112	389679	25.9990153 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.055	133	114712	29.0796811 ppb	#	99
62)	ETHYLBENZENE	6.026	106	229903	27.8493712 ppb		96
63)	M&P-XYLENE	6.119	106	576377	56.7541422 ppb		97
64)	O-XYLENE	6.418	106	262905	27.2312472 ppb		97
65)	STYRENE	6.457	104	431498	28.0176901 ppb		97
66)	Bromoform	6.486	173	64695	31.3600736 ppb		99
67)	Isopropylbenzene	6.634	105	727330	28.1934884 ppb		100
69)	Bromobenzene	6.933	77	326980	27.1553090 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	166610	29.3477847 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.084	110	43224	28.1632235 ppb		100
72)	TRANS-1,4-DICHLORO-2-B...	7.109	53	43374	30.5389228 ppb	#	92
73)	n-Propylbenzene	6.933	91	905245	28.2685644 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	732900	29.0393788 ppb		100
75)	2-Chlorotoluene	7.061	126	163545	28.6520145 ppb		94
76)	4-Chlorotoluene	7.180	91	512507	28.2804303 ppb		97
77)	1,3,5-Trimethylbenzene	7.068	105	618667	28.3189490 ppb		98
78)	tert-Butylbenzene	7.309	119	503249	28.3916065 ppb		99
79)	1,2,4-Trimethylbenzene	7.363	105	597328	28.7530588 ppb		99
80)	sec-Butylbenzene	7.444	105	848079	28.7483223 ppb		100
81)	1,3-DICHLOROBENZENE	7.627	146	292353	29.4844978 ppb		100
82)	p-Isopropyltoluene	7.547	119	680430	29.9841709 ppb		99
83)	DICYCLOPENTADIENE	7.547	66	834509	27.9625796 ppb		99
85)	1,4-DICHLOROBENZENE	7.691	146	298637	26.7704717 ppb		92
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	612571	26.4514923 ppb		98
87)	1,2-DICHLOROBENZENE	8.016	146	271633	27.9375144 ppb		98
88)	n-Butylbenzene	7.871	91	675813	29.6554083 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.640	157	24810	31.6690934 ppb		99
90)	1,2,4-Trichlorobenzene	9.193	180	174254	33.1000247 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	95695	30.1822252 ppb		97
92)	Naphthalene	9.453	128	408894	29.8749283 ppb		99
93)	1,2,3-Trichlorobenzene	9.611	180	153729	33.0077287 ppb		99
94)	1-Methylnaphthalene	10.322	142	153237	No Calib		
95)	2-Methylnaphthalene	10.453	142	143901	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 04.D
Acq On : 26 Oct 2014 1:04 pm
Operator : 644
Sample : LCSD 1x WG750683
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:31 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	2.344	45	703	14.3436692 ppb	#	39
98)	Bromoethane	2.537	108	503	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.843	43	241450	77.5135685 ppb	#	68
101)	ACETONITRILE	2.965	41	608	0.9959072 ppb	#	35
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	2.849	59	779	1.2215907 ppb	#	1
104)	chloroprene	3.158	53	235862	46.7732777 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	3.843	54	2532	3.7693560 ppb	#	1
107)	Ethyl Acetate	3.611	43	1806	0.4144332 ppb	#	42
108)	METHACRYLONITRILE	3.891	67	907	0.4358788 ppb	#	1
109)	Cyclohexane	3.582	56	14407	1.5972342 ppb	#	42
110)	tert-butyl formate	3.753	59	732	0.3587289 ppb	#	1
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	3.994	59	631	1.6128421 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.888	73	10350	0.7209788 ppb	#	68
115)	N-BUTANOL	4.312	56	3125	161.9281912 ppb	#	75
116)	Methyl Cyclohexane	4.209	83	13172	1.2516870 ppb	#	85
117)	2-nitropropane	5.187	43	741	0.7897888 ppb	#	18
118)	METHYL METHACRYLATE	4.566	41	11585	2.6105898 ppb	#	27
119)	1,4-DIOXANE	4.650	88	884	16.6441158 ppb	#	1
120)	n-octane	4.904	85	4680	0.9318048 ppb	#	80
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	96067	291.4273229 ppb	#	53
123)	ETHYL METHACRYLATE	5.376	69	568	N.D.		
124)	CIS-1,4-DICHLORO-2-BUTENE	6.884	53	2224	1.5675846 ppb	#	25
125)	Cyclohexanone	7.106	55	1207	1.0216637 ppb	#	23
126)	PENTACHLOROETHANE	7.363	117	21410	No Calib	#	
127)	Hexachloroethane	8.006	117	1120	0.3858408 ppb	#	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 04.D
Acq On : 26 Oct 2014 1:04 pm
Operator : 644
Sample : LCSD 1x WG750683
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:31 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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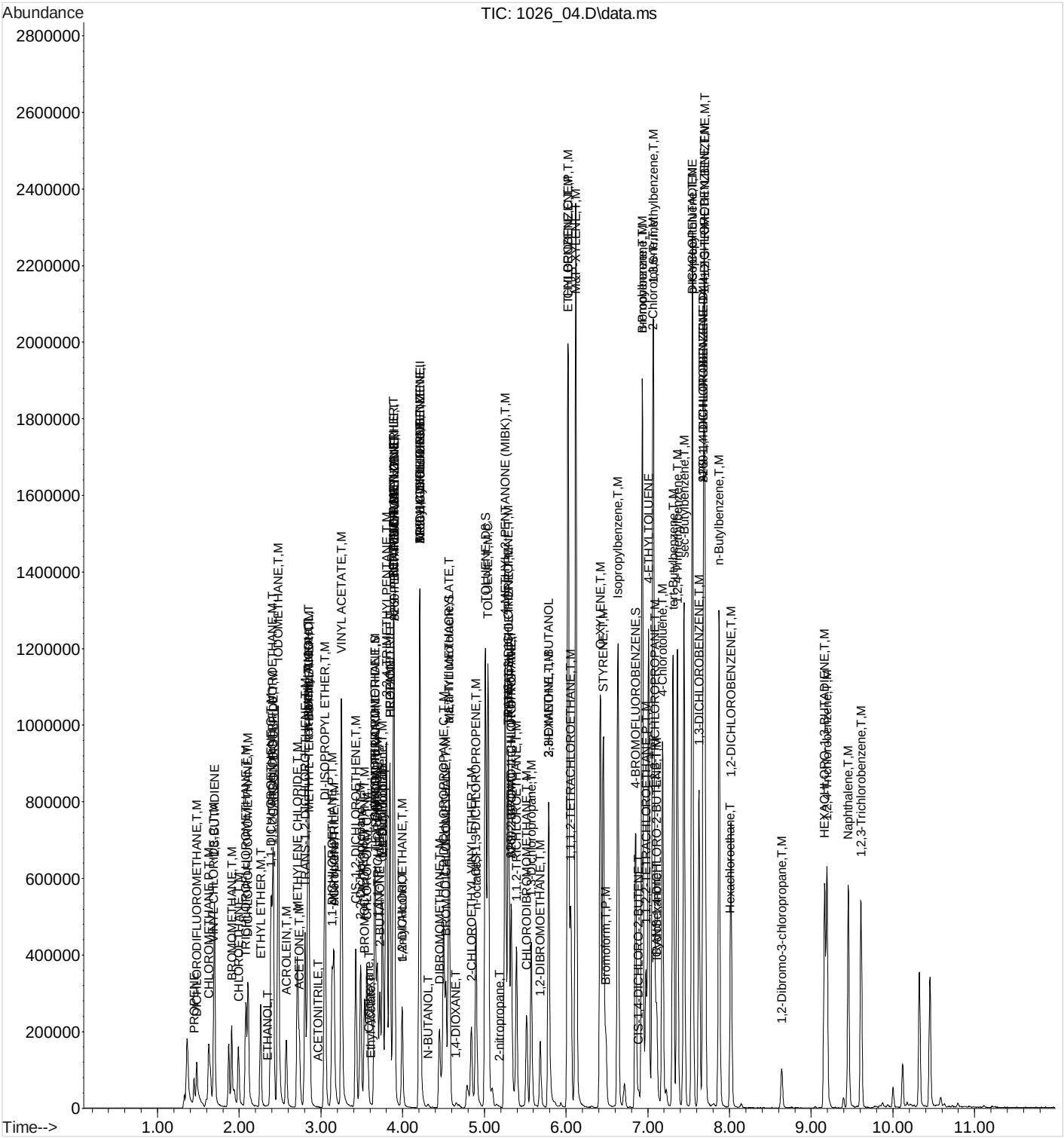


Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 05.D
Acq On : 26 Oct 2014 2:08 pm
Operator : 644
Sample : MS 1x WG750683 L729559-02
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:51 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	346722	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	629398	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	106038	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	261923	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	346722	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	629398	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	105978	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	261923	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	173455	39.8631999 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.66%		
46) a,a,a-Trifluorotoluene	4.566	146	326009	41.5988468 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.00%		
50) TOLUENE-D8	5.013	98	795984	39.4799336 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.70%		
68) 4-BROMOFLUOROBENZENE	6.849	95	274686	39.9594069 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.90%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	6443999	No Calib	
3) PROPENE	1.447	41	16641	9.8034754 ppb	98
4) DICHLORODIFLUOROMETHANE	1.480	85	106851	20.1498392 ppb	100
5) CHLOROMETHANE	1.628	50	172635	20.4199130 ppb	99
6) VINYL CHLORIDE	1.689	62	177161	19.5511927 ppb	96
7) 1,3-BUTADIENE	1.701	39	98731	14.8773587 ppb	96
8) BROMOMETHANE	1.907	94	105748	25.2739254 ppb	96
9) CHLOROETHANE	1.991	66	39556	27.1110005 ppb	90
10) TRICHLOROFLUOROMETHANE	2.081	101	192452	24.9937755 ppb	100
11) DICHLOROFLUOROMETHANE	2.110	67	304670	26.2753072 ppb	99
12) ETHYL ETHER	2.261	59	138263	26.5447839 ppb	98
13) ACROLEIN	2.576	56	132339	145.9138557 ppb	99
14) 1,1-DICHLOROETHENE	2.390	61	215906	23.5885139 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	150357	25.2461060 ppb	98
16) ACETONE	2.734	43	254858	152.4586742 ppb	99
17) IODOMETHANE	2.476	142	924184	122.5823968 ppb	99
18) CARBON DISULFIDE	2.418	76	365473	17.3262949 ppb	99
19) METHYLENE CHLORIDE	2.711	84	146918	21.0344914 ppb	99
20) ACRYLONITRILE	3.158	53	288944	139.5552078 ppb	98
21) n-Hexane	2.843	56	128551	16.5746404 ppb	92
22) TRANS-1,2-DICHLOROETHENE	2.804	96	133946	20.9216504 ppb	96
23) METHYL TERT-BUTYL ETHER	2.856	73	439824	24.2838324 ppb #	75
24) 1,1-DICHLOROETHANE	3.135	63	298332	23.5043827 ppb	99
25) VINYL ACETATE	3.251	43	1508286	148.9552392 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	590278	24.9111217 ppb	98
27) 2,2-Dichloropropane	3.486	77	232872	25.3097948 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.425	96	154621	23.1932676 ppb	98
29) 2-BUTANONE (MEK)	3.721	72	100066	135.2629377 ppb	95
30) BROMOCHLOROMETHANE	3.534	130	79192	24.2511712 ppb	95
31) TETRAHYDROFURAN	3.663	42	48896	24.1141566 ppb	94
32) CHLOROFORM	3.563	83	255637	23.9609653 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	202731	23.2438075 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	185580	24.0530627 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 05.D
Acq On : 26 Oct 2014 2:08 pm
Operator : 644
Sample : MS 1x WG750683 L729559-02
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:51 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	218833	21.7840610 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	816611	24.0629308 ppb		96
38) HEPTANE	3.843	43	251802	18.4688450 ppb		98
39) BENZENE	3.888	78	647771	22.4655111 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	173139	22.7978233 ppb		99
42) TRICHLOROETHENE	4.206	130	173863	28.4593553 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	125966	24.6761641 ppb		99
44) DIBROMOMETHANE	4.451	93	74644	24.1261163 ppb		97
45) BROMODICHLOROMETHANE	4.528	83	187724	25.1781327 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	100946	57.7649934 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.897	75	260412	26.5065685 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	327689	138.4812661 ppb		97
51) TOLUENE	5.045	91	719122	23.9753728 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	50385	26.1497888 ppb		100
54) 1,1,2-TRICHLOROETHANE	5.393	97	126595	25.3626923 ppb		98
55) TETRACHLOROETHENE	5.296	164	103688	24.0101808 ppb		93
56) 1,3-Dichloropropane	5.573	76	248267	24.8644545 ppb		98
57) 2-HEXANONE	5.785	58	333778	154.9046249 ppb		99
58) CHLORODIBROMOMETHANE	5.518	129	116732	26.5563709 ppb		99
59) 1,2-DIBROMOETHANE	5.682	107	115756	26.5803952 ppb		100
60) CHLOROBENZENE	6.023	112	406555	23.7721404 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	120064	26.6742783 ppb		99
62) ETHYLBENZENE	6.023	106	236589	25.1168046 ppb		96
63) M&P-XYLENE	6.119	106	574528	49.5793928 ppb		99
64) O-XYLENE	6.418	106	274419	24.9104715 ppb		96
65) STYRENE	6.454	104	448945	25.5473444 ppb		98
66) Bromoform	6.486	173	70562	29.9761823 ppb		100
67) Isopropylbenzene	6.634	105	733581	24.9209429 ppb		100
69) Bromobenzene	6.933	77	335212	24.3978861 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	177420	27.3889837 ppb	#	97
71) 1,2,3-TRICHLOROPROPANE	7.084	110	45902	26.2112720 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.110	53	45903	28.3246395 ppb	#	90
73) n-Propylbenzene	6.933	91	921173	25.2102935 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	729599	25.3352919 ppb		99
75) 2-Chlorotoluene	7.061	126	166174	25.5140879 ppb		94
76) 4-Chlorotoluene	7.180	91	525994	25.4370114 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	620684	24.8994533 ppb		99
78) tert-Butylbenzene	7.309	119	516641	25.5443584 ppb		98
79) 1,2,4-Trimethylbenzene	7.364	105	608342	25.6636287 ppb		99
80) sec-Butylbenzene	7.444	105	844409	25.0858102 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	298522	26.3852738 ppb		99
82) p-Isopropyltoluene	7.547	119	675731	26.0964550 ppb		99
83) DICYCLOPENTADIENE	7.547	66	827194	24.2914068 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	302690	24.0237799 ppb		97
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	622343	23.7932853 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	276016	25.1345058 ppb		99
88) n-Butylbenzene	7.872	91	676642	26.2885829 ppb		98
89) 1,2-Dibromo-3-chloropr...	8.640	157	25648	28.9863298 ppb		95
90) 1,2,4-Trichlorobenzene	9.193	180	180357	30.3325850 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	94904	26.5019227 ppb		99
92) Naphthalene	9.454	128	474033	30.5922151 ppb		98
93) 1,2,3-Trichlorobenzene	9.608	180	155355	29.5335690 ppb		99
94) 1-Methylnaphthalene	10.322	142	213976	No Calib		
95) 2-Methylnaphthalene	10.454	142	182105	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 05.D
Acq On : 26 Oct 2014 2:08 pm
Operator : 644
Sample : MS 1x WG750683 L729559-02
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:51 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

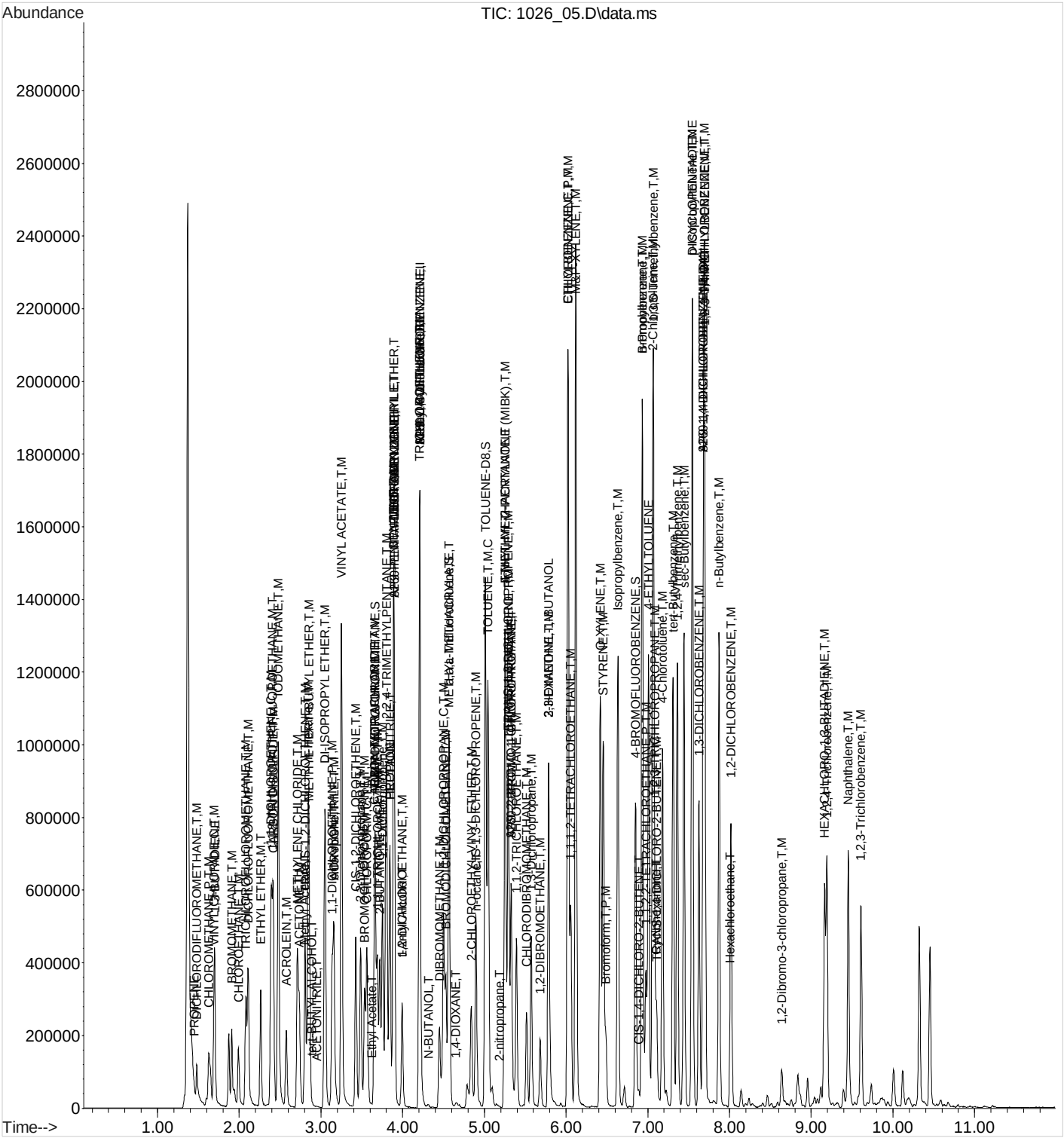
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	2.544	108	618	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.798	43	5805	1.5307910 ppb	#	91
101)	ACETONITRILE	2.946	41	728	0.9795121 ppb	#	35
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	2.891	59	1427	1.8381265 ppb	#	59
104)	chloroprene	3.158	53	288944	47.0670164 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	3.200	59	657	N.D.		
106)	PROPIONITRILE	3.843	54	1732	2.1179441 ppb	#	1
107)	Ethyl Acetate	3.618	43	2023	0.3813255 ppb	#	45
108)	METHACRYLONITRILE	3.891	67	1085	0.4283033 ppb	#	1
109)	Cyclohexane	3.518	56	849	N.D.		
110)	tert-butyl formate	3.795	59	636	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	3.994	59	883	1.8539002 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.891	73	10668	0.6104193 ppb	#	45
115)	N-BUTANOL	4.316	56	2842	156.9884175 ppb	#	81
116)	Methyl Cyclohexane	4.209	83	16336	1.2571611 ppb	#	86
117)	2-nitropropane	5.187	43	973	0.8398598 ppb	#	34
118)	METHYL METHACRYLATE	4.563	41	10424	1.9022965 ppb	#	1
119)	1,4-DIOXANE	4.647	88	655	9.9873661 ppb	#	1
120)	n-octane	4.904	85	5598	0.9026371 ppb	#	75
121)	3,3-DIMETHYL-1-BUTANOL	5.785	57	114107	280.4931560 ppb	#	54
123)	ETHYL METHACRYLATE	5.254	69	5532	0.7008762 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.891	53	2211	1.3665636 ppb	#	29
125)	Cyclohexanone	7.103	55	757	0.5618773 ppb	#	23
126)	PENTACHLOROETHANE	7.364	117	20127	No Calib	#	
127)	Hexachloroethane	8.003	117	1074	0.3244437 ppb	#	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 05.D
Acq On : 26 Oct 2014 2:08 pm
Operator : 644
Sample : MS 1x WG750683 L729559-02
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:36:51 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


Abundance
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2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
PROPENE
DICHLORODIFLUOROMETHANE,T,M
CHLOROMETHANE,T,M
VINYL CHLORIDE,T,M
BROMOMETHANE,T,M
CHLOROETHANE,T,M
TRICHLOROFLUOROMETHANE,T,M
ETHYL ETHER,T,M
ACROLEIN,T,M
ACETONITRILE,T
ACETONE,T,M
ACRYLONITRILE,T,M
ACETONE,T,M
ACROLEIN,T,M
ACETONITRILE,T
ACRYLONITRILE,T,M
ACETONE

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 06.D
Acq On : 26 Oct 2014 2:30 pm
Operator : 644
Sample : MSD 1x WG750683 L729559-02
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:37:09 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	351201	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	626656	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	111744	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	255767	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	351201	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	626656	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	111744	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	255767	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	175433	39.8035933 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.51%		
46) a,a,a-Trifluorotoluene	4.566	146	325023	41.6545026 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.14%		
50) TOLUENE-D8	5.013	98	802879	39.9961631 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.99%		
68) 4-BROMOFLUOROBENZENE	6.849	95	276072	38.1102839 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.28%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7602897	No Calib	
3) PROPENE	1.447	41	15013	8.6369179 ppb	92
4) DICHLORODIFLUOROMETHANE	1.480	85	113790	21.1847208 ppb	98
5) CHLOROMETHANE	1.627	50	172370	20.1266531 ppb	98
6) VINYL CHLORIDE	1.685	62	184055	20.0529564 ppb	99
7) 1,3-BUTADIENE	1.698	39	104570	15.5562553 ppb	98
8) BROMOMETHANE	1.904	94	97767	22.9194934 ppb	99
9) CHLOROETHANE	1.978	66	35011	23.6899066 ppb	96
10) TRICHLOROFLUOROMETHANE	2.071	101	198847	25.4949482 ppb	98
11) DICHLOROFLUOROMETHANE	2.103	67	317666	27.0467135 ppb	99
12) ETHYL ETHER	2.261	59	135838	25.7466158 ppb	97
13) ACROLEIN	2.573	56	142811	155.4518878 ppb	98
14) 1,1-DICHLOROETHENE	2.383	61	215943	23.2916715 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.402	101	153496	25.4444734 ppb	99
16) ACETONE	2.737	43	280579	165.7046465 ppb	100
17) IODOMETHANE	2.473	142	972792	127.3841251 ppb	100
18) CARBON DISULFIDE	2.415	76	376952	17.6425807 ppb	99
19) METHYLENE CHLORIDE	2.711	84	159479	22.5416741 ppb	98
20) ACRYLONITRILE	3.158	53	337819	161.0801756 ppb	99
21) n-Hexane	2.840	56	143252	18.2345481 ppb	90
22) TRANS-1,2-DICHLOROETHENE	2.804	96	146892	22.6511361 ppb	96
23) METHYL TERT-BUTYL ETHER	2.856	73	506395	27.6028146 ppb #	73
24) 1,1-DICHLOROETHANE	3.135	63	331002	25.7457344 ppb	100
25) VINYL ACETATE	3.248	43	1707134	166.4429294 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	663441	27.6416936 ppb	99
27) 2,2-Dichloropropane	3.486	77	261066	28.0122066 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	174815	25.8879589 ppb	99
29) 2-BUTANONE (MEK)	3.721	72	126445	168.7406010 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	87160	26.3508291 ppb	97
31) TETRAHYDROFURAN	3.663	42	58166	28.3200229 ppb #	90
32) CHLOROFORM	3.560	83	283754	26.2571899 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.688	97	230448	26.0846915 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	208568	26.6877859 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 06.D
Acq On : 26 Oct 2014 2:30 pm
Operator : 644
Sample : MSD 1x WG750683 L729559-02
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:37:09 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	243842	23.9640489 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	817088	23.7699236 ppb		98
38) HEPTANE	3.843	43	270287	19.5718273 ppb		99
39) BENZENE	3.888	78	723072	24.7572272 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	196968	25.6047070 ppb		100
42) TRICHLOROETHENE	4.209	130	183425	30.1559193 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	141596	27.8593803 ppb		99
44) DIBROMOMETHANE	4.447	93	83596	27.1377705 ppb		99
45) BROMODICHLOROMETHANE	4.528	83	212377	28.6093083 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	107734	61.9190885 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.897	75	293047	29.9589060 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.254	58	372141	157.9548041 ppb		96
51) TOLUENE	5.045	91	772300	25.8609804 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	57967	30.2164823 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.393	97	142571	27.1048688 ppb		98
55) TETRACHLOROETHENE	5.296	164	114098	25.0716132 ppb		95
56) 1,3-Dichloropropane	5.573	76	274465	26.0846026 ppb		100
57) 2-HEXANONE	5.785	58	377666	166.3228352 ppb		99
58) CHLORODIBROMOMETHANE	5.518	129	134163	28.9633555 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	129671	28.2551812 ppb		100
60) CHLOROBENZENE	6.023	112	454144	25.1988010 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	136097	28.6923247 ppb		98
62) ETHYLBENZENE	6.023	106	257197	25.9103363 ppb		99
63) M&P-XYLENE	6.119	106	644053	52.7410688 ppb		98
64) O-XYLENE	6.418	106	301180	25.9436582 ppb		97
65) STYRENE	6.454	104	504585	27.2473502 ppb		98
66) Bromoform	6.486	173	78714	31.7318020 ppb		97
67) Isopropylbenzene	6.634	105	821031	26.4675210 ppb		100
69) Bromobenzene	6.933	77	373598	25.8032553 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	204514	29.9594406 ppb	#	99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	51641	27.9826247 ppb		96
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	53288	31.2025478 ppb	#	89
73) n-Propylbenzene	6.933	91	1013276	26.3149030 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	808190	26.6313063 ppb		100
75) 2-Chlorotoluene	7.061	126	180998	26.3710890 ppb		96
76) 4-Chlorotoluene	7.180	91	585790	26.8821848 ppb		99
77) 1,3,5-Trimethylbenzene	7.068	105	681004	25.9242523 ppb		99
78) tert-Butylbenzene	7.309	119	562425	26.3880964 ppb		99
79) 1,2,4-Trimethylbenzene	7.364	105	667934	26.7387517 ppb		99
80) sec-Butylbenzene	7.444	105	930689	26.2371812 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	325252	27.2798862 ppb		99
82) p-Isopropyltoluene	7.547	119	732295	26.8368202 ppb		99
83) DICYCLOPENTADIENE	7.547	66	913292	25.4502621 ppb		99
85) 1,4-DICHLOROBENZENE	7.692	146	333882	27.1372228 ppb		90
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	674744	26.4175636 ppb		99
87) 1,2-DICHLOROBENZENE	8.016	146	297592	27.7515006 ppb		98
88) n-Butylbenzene	7.872	91	717895	28.5626356 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	28949	33.5044442 ppb		97
90) 1,2,4-Trichlorobenzene	9.193	180	180378	31.0662701 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	90138	25.7768539 ppb		98
92) Naphthalene	9.454	128	496948	32.6418031 ppb		97
93) 1,2,3-Trichlorobenzene	9.611	180	153109	29.8071562 ppb		98
94) 1-Methylnaphthalene	10.322	142	231409	No Calib		
95) 2-Methylnaphthalene	10.454	142	197422	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 06.D
Acq On : 26 Oct 2014 2:30 pm
Operator : 644
Sample : MSD 1x WG750683 L729559-02
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:37:09 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

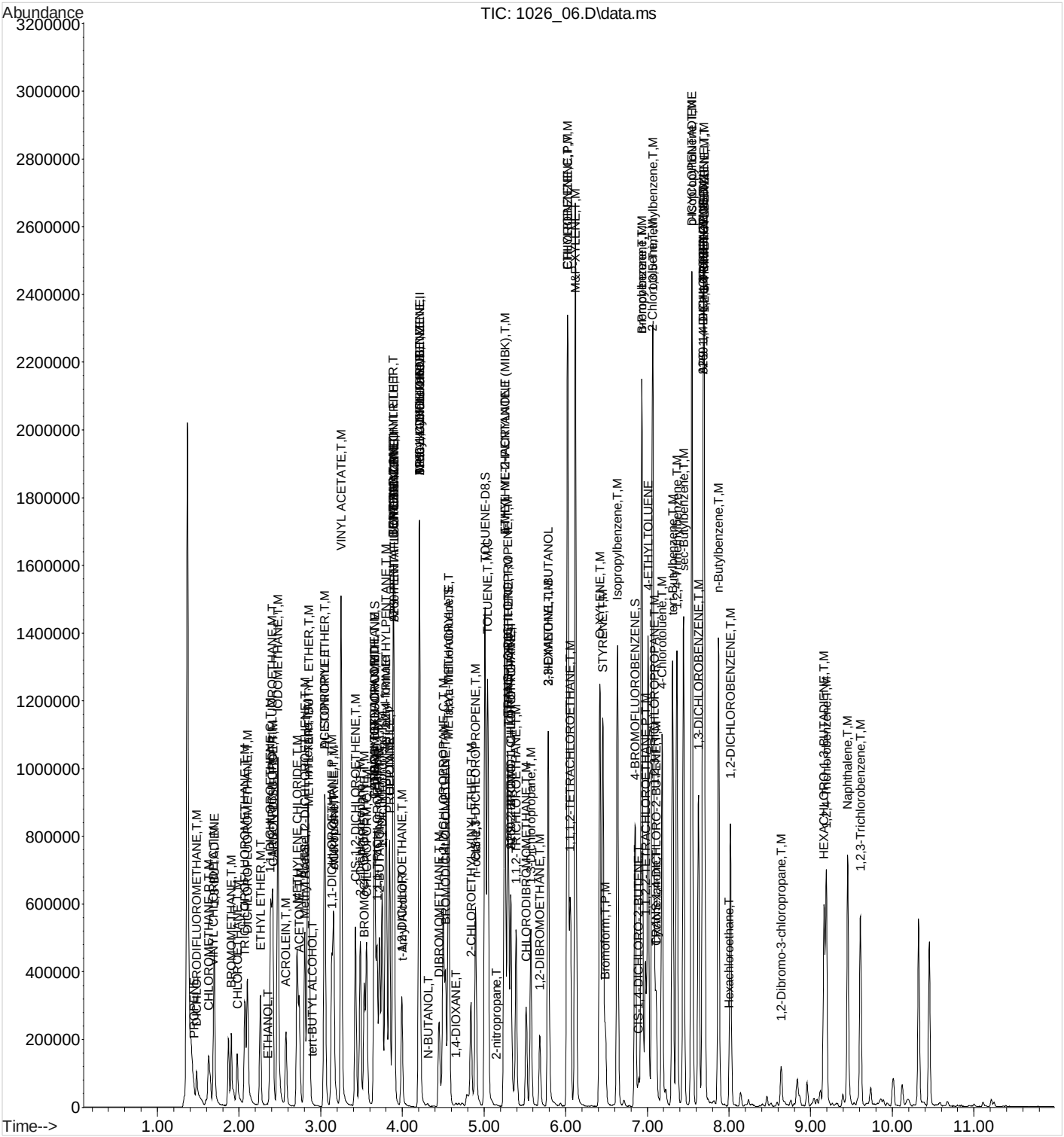
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.351	45	1319	21.8242107 ppb #	72
98)	Bromoethane	2.534	108	506	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.798	43	6041	1.5727083 ppb #	85
101)	ACETONITRILE	3.049	41	94146	125.0564154 ppb #	40
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.894	59	1596	2.0295977 ppb #	59
104)	chloroprene	3.158	53	337819	54.3266238 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.193	59	1509	N.D.	
106)	PROPIONITRILE	3.846	54	1720	2.0764464 ppb #	1
107)	Ethyl Acetate	3.611	43	1306	N.D.	
108)	METHACRYLONITRILE	3.891	67	1139	0.4438856 ppb #	1
109)	Cyclohexane	3.547	56	842	N.D.	
110)	tert-butyl formate	3.795	59	3830	1.5220991 ppb #	1
111)	ISOBUTANOL	4.045	41	1476	No Calib #	
112)	t-Amyl Alcohol	3.997	59	1091	2.2613931 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11866	0.6703094 ppb #	51
115)	N-BUTANOL	4.315	56	1988	152.8816874 ppb #	45
116)	Methyl Cyclohexane	4.209	83	13609	1.0518834 ppb #	78
117)	2-nitropropane	5.148	43	639	0.5539761 ppb #	18
118)	METHYL METHACRYLATE	4.563	41	6664	1.2214479 ppb #	1
119)	1,4-DIOXANE	4.656	88	998	15.2839767 ppb #	1
120)	n-octane	4.901	85	4138	0.6701422 ppb #	71
121)	3,3-DIMETHYL-1-BUTANOL	5.785	57	125859	310.2731275 ppb #	52
123)	ETHYL METHACRYLATE	5.254	69	6284	0.7550693 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.891	53	2972	1.7421334 ppb #	27
125)	Cyclohexanone	7.106	55	1922	1.3529772 ppb #	23
126)	PENTACHLOROETHANE	7.360	117	22658	No Calib #	
127)	Hexachloroethane	8.000	117	1490	0.4268869 ppb #	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 06.D
Acq On : 26 Oct 2014 2:30 pm
Operator : 644
Sample : MSD 1x WG750683 L729559-02
Misc : water SSURR14I25028/SPK14J25615
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 18:37:09 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\102614\
Data File : 1026 11.D
Acq On : 26 Oct 2014 4:30 pm
Operator : 644
Sample : BLANK 1X WG750683
Misc : water SSURR14I25028
ALS Vial : 11 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 16:13:41 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

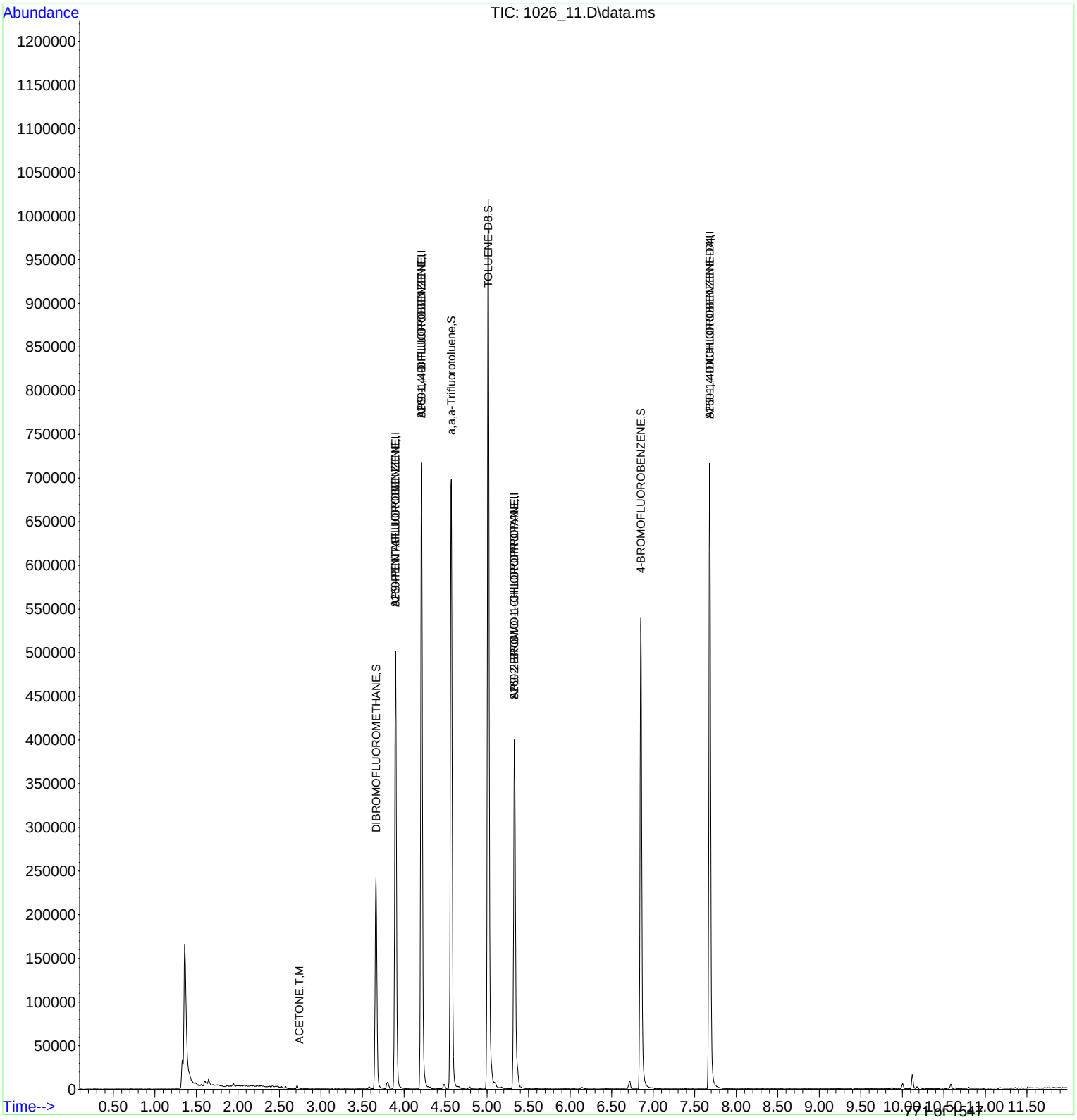
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	253811	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	453423	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	74396	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	168222	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	253811	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	453423	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	74396	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	168222	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	122682	38.5156419 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.29%		
46) a,a,a-Trifluorotoluene	4.569	146	238508	42.2451119 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.61%		
50) TOLUENE-D8	5.013	98	577885	39.7864610 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.47%		
68) 4-BROMOFLUOROBENZENE	6.852	95	186588	38.6881675 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.72%		
Target Compounds					Qvalue
16) ACETONE	2.740	43	840	0.6864424 ppb #	40

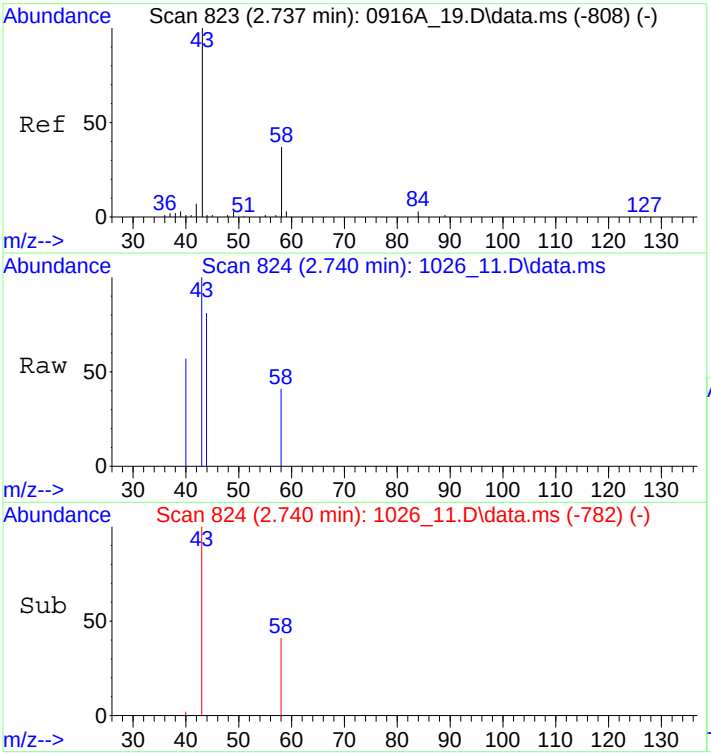
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 11.D
Acq On : 26 Oct 2014 4:30 pm
Operator : 644
Sample : BLANK 1X WG750683
Misc : water SSURR14I25028
ALS Vial : 11 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 28 16:13:41 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

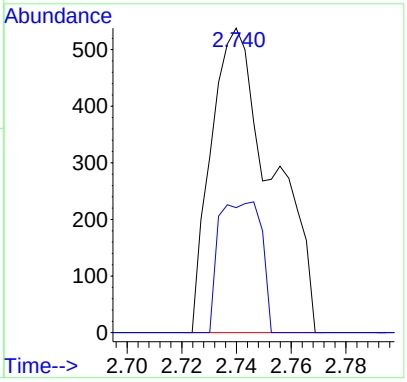




#16
ACETONE
Concen: 0.6864424 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1026 11.D
Acq: 26 Oct 2014 4:30 pm

Tgt Ion: 43 Resp: 840

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.0	42.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 16.D
Acq On : 26 Oct 2014 6:50 pm
Operator : 644
Sample : L729564-03 1x WG750683 V8260 TB
Misc : water SSURR14I25028
ALS Vial : 16 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 09 11:04:12 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

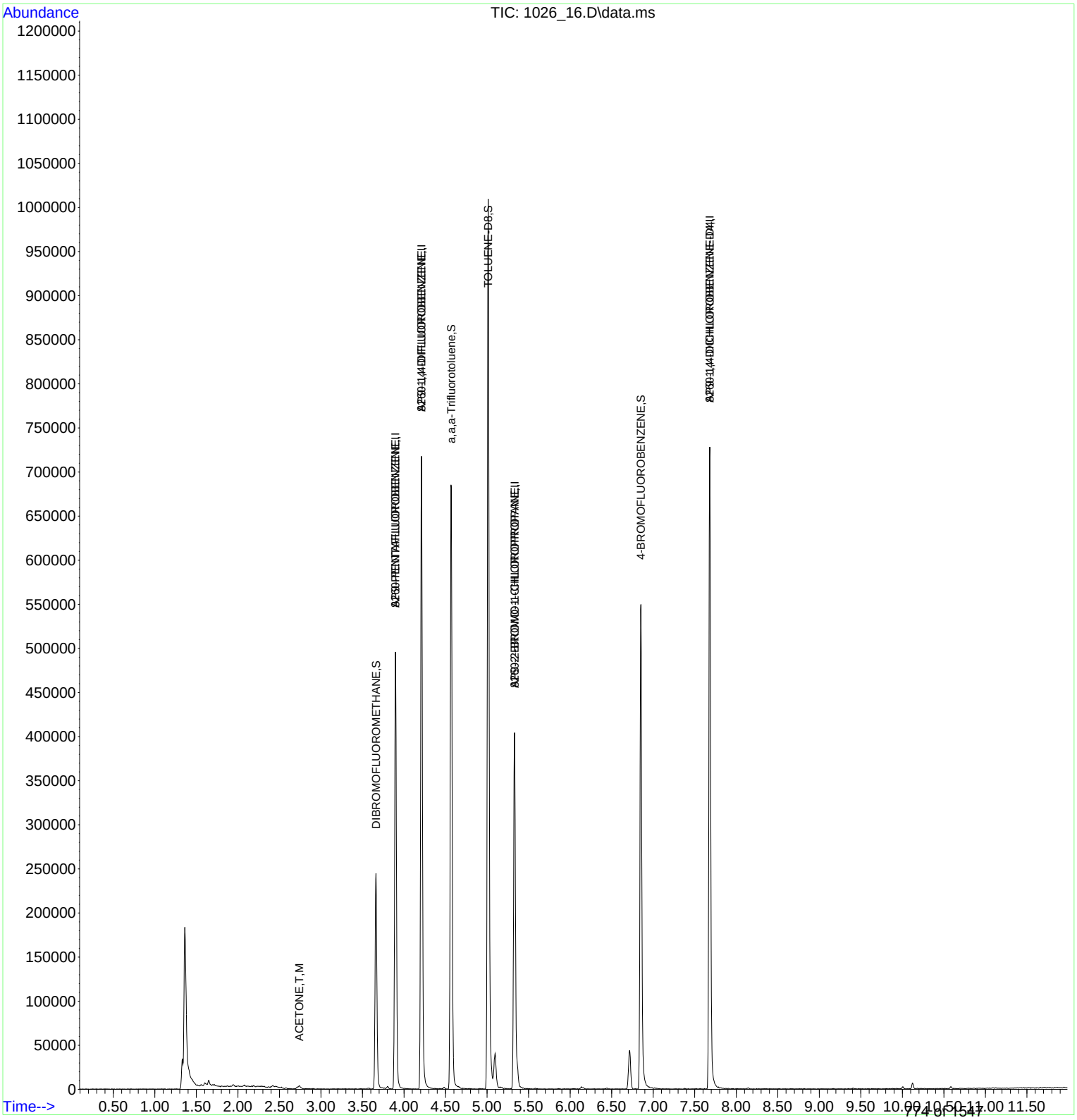
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	247983	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	452509	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	75599	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	170327	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	247983	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	452509	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	75598	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	170327	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	122916	39.4960117 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.74%		
46) a,a,a-Trifluorotoluene	4.570	146	233343	41.4137556 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.53%		
50) TOLUENE-D8	5.013	98	573563	39.5686598 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.92%		
68) 4-BROMOFLUOROBENZENE	6.852	95	195305	39.8511948 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.63%		
Target Compounds					Qvalue
16) ACETONE	2.740	43	4181	3.4969830 ppb	94

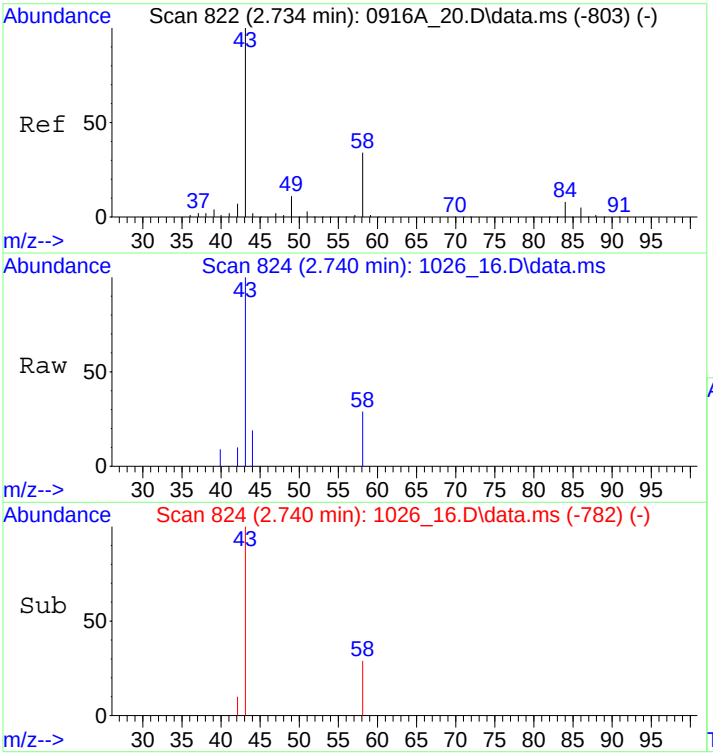
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102614\
Data File : 1026 16.D
Acq On : 26 Oct 2014 6:50 pm
Operator : 644
Sample : L729564-03 1x WG750683 V8260 TB
Misc : water SSURR14I25028
ALS Vial : 16 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 09 11:04:12 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

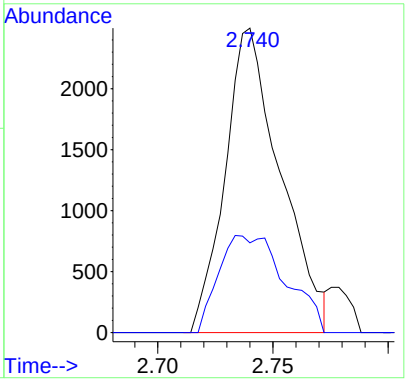




#16
ACETONE
Concen: 3.4969830 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1026 16.D
Acq: 26 Oct 2014 6:50 pm

Tgt Ion: 43 Resp: 4181

Ion	Ratio	Lower	Upper
43	100		
58	38.4	28.0	42.0



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

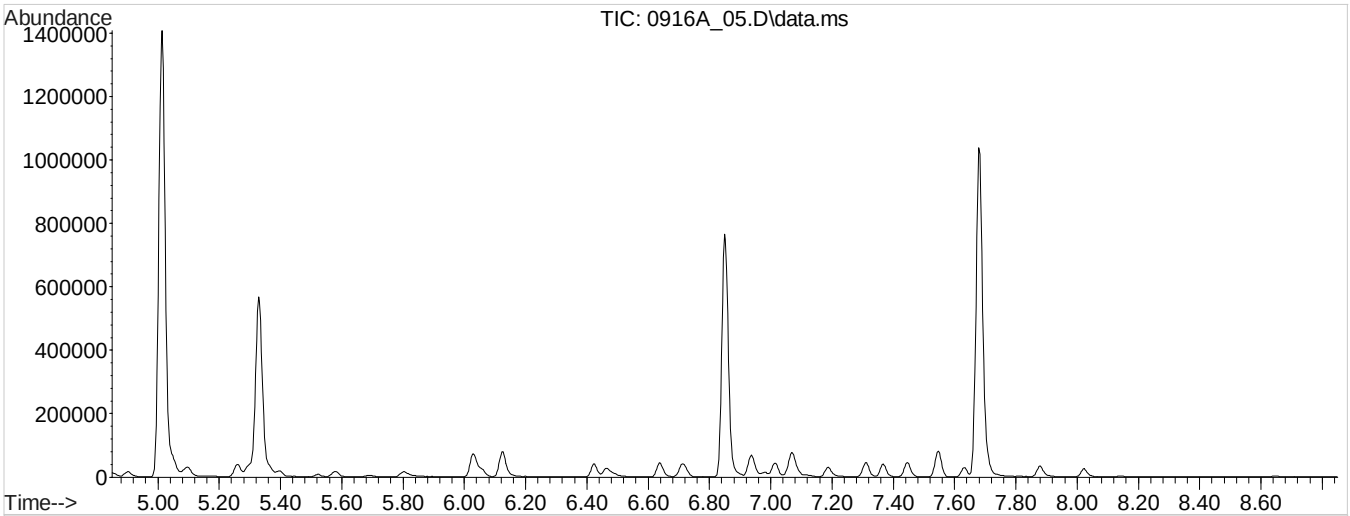
Run ID : 091614a
Signature : _____

#	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



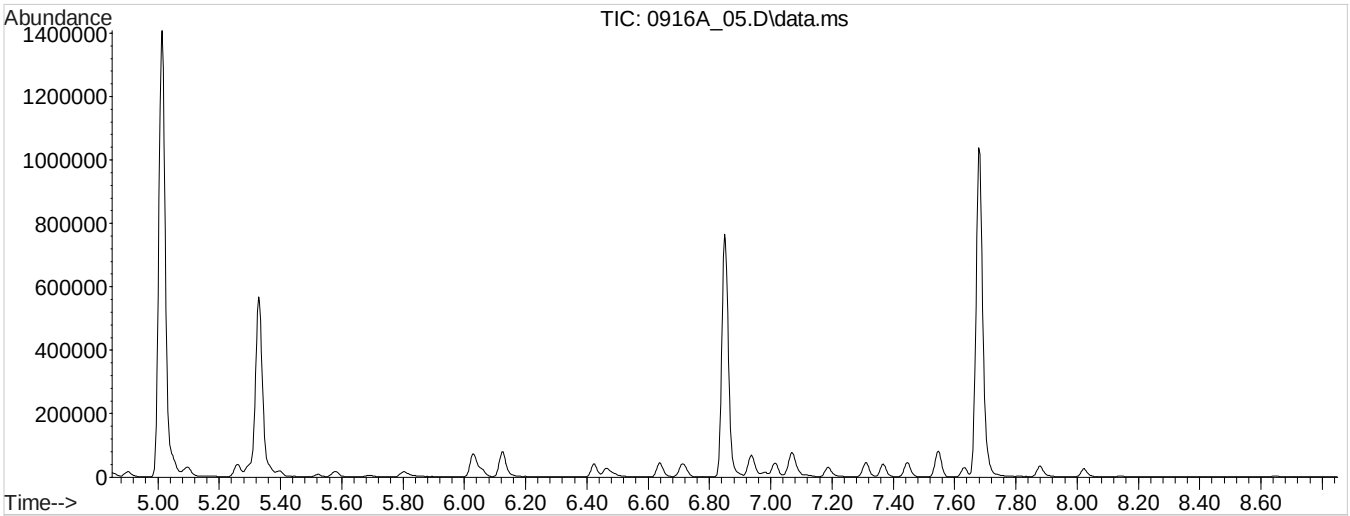
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2090

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



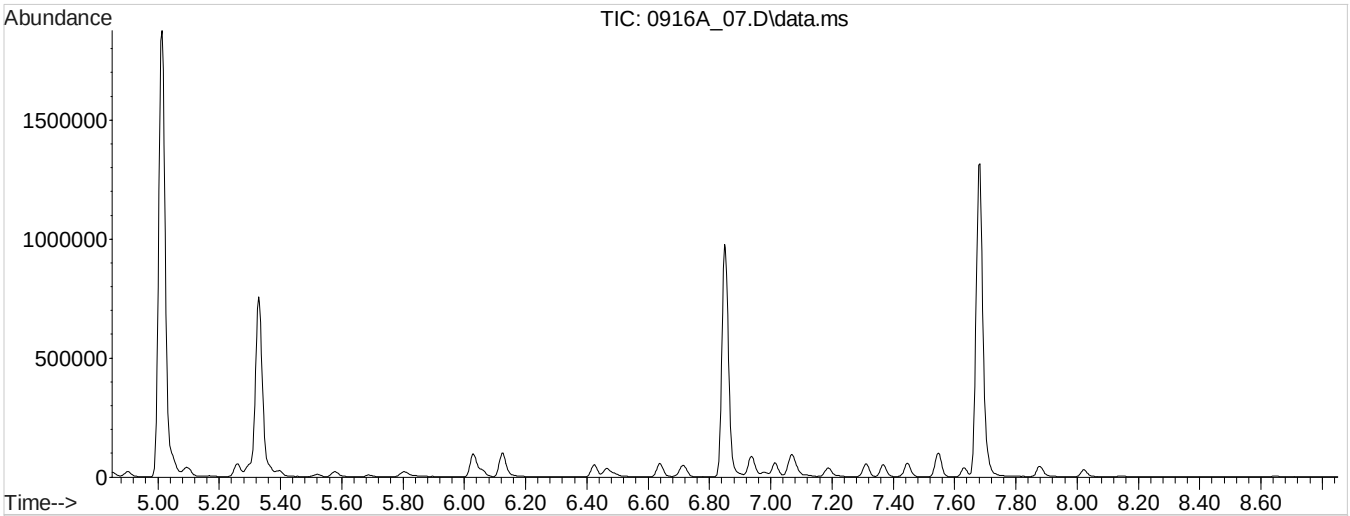
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2090

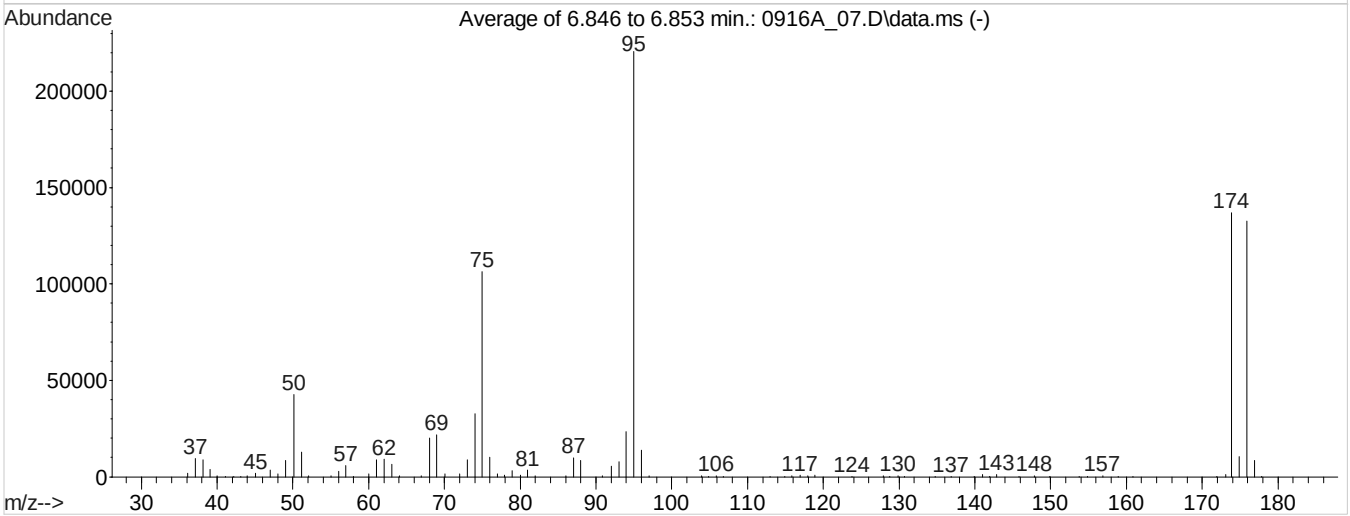
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	31808	PASS
75	95	30	60	49.7	84005	PASS
95	95	100	100	100.0	169003	PASS
96	95	5	9	6.7	11286	PASS
173	174	0.00	2	0.8	844	PASS
174	95	50	150	63.4	107080	PASS
175	174	5	9	7.6	8109	PASS
176	174	95	101	97.6	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





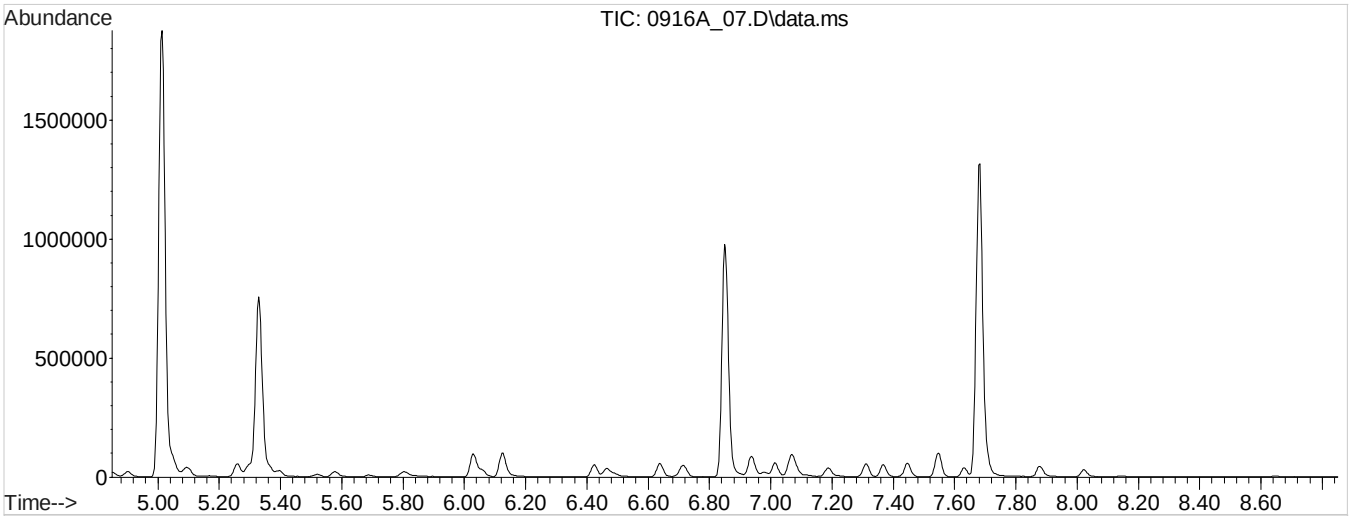
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

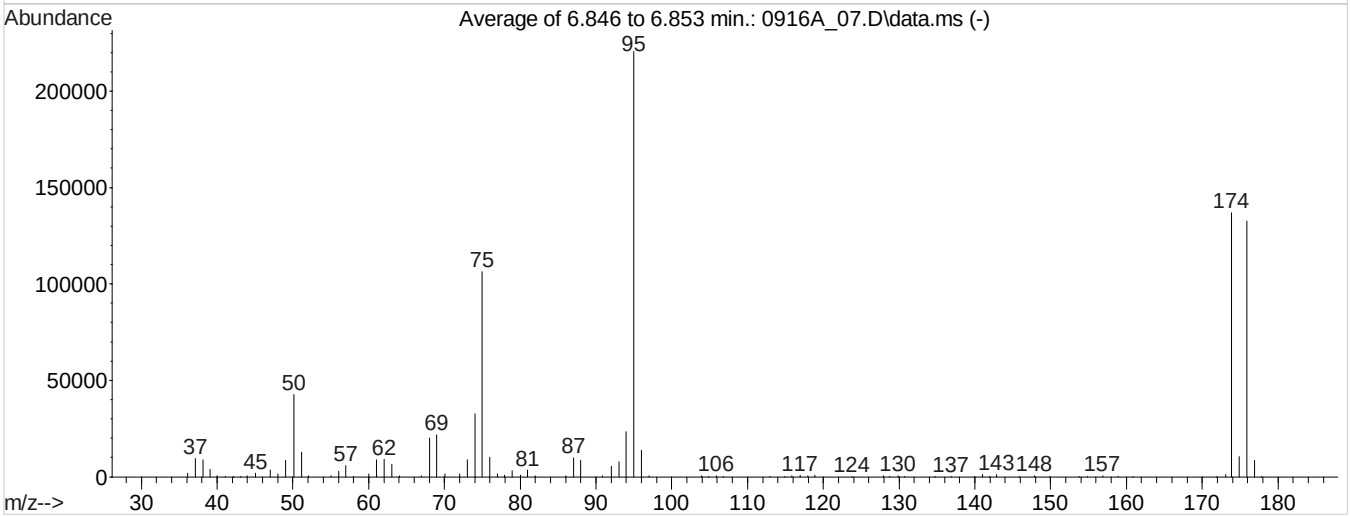
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	42605	PASS
75	95	30	60	48.2	106373	PASS
95	95	100	100	100.0	220629	PASS
96	95	5	9	6.2	13777	PASS
173	174	0.00	2	0.9	1181	PASS
174	95	50	150	62.1	136957	PASS
175	174	5	9	7.6	10434	PASS
176	174	95	101	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





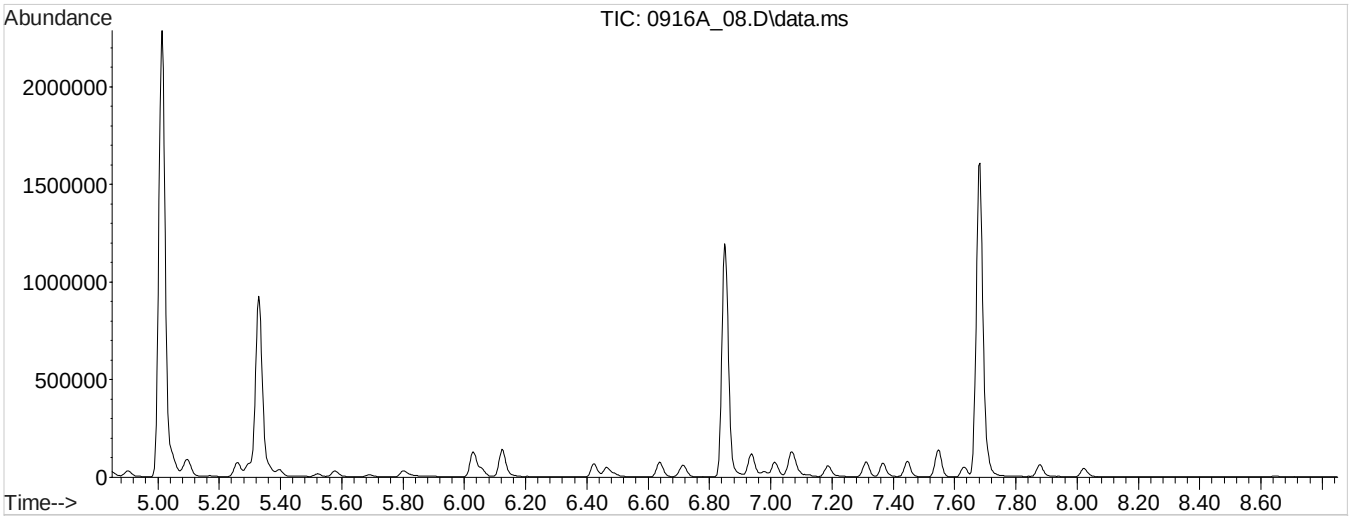
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

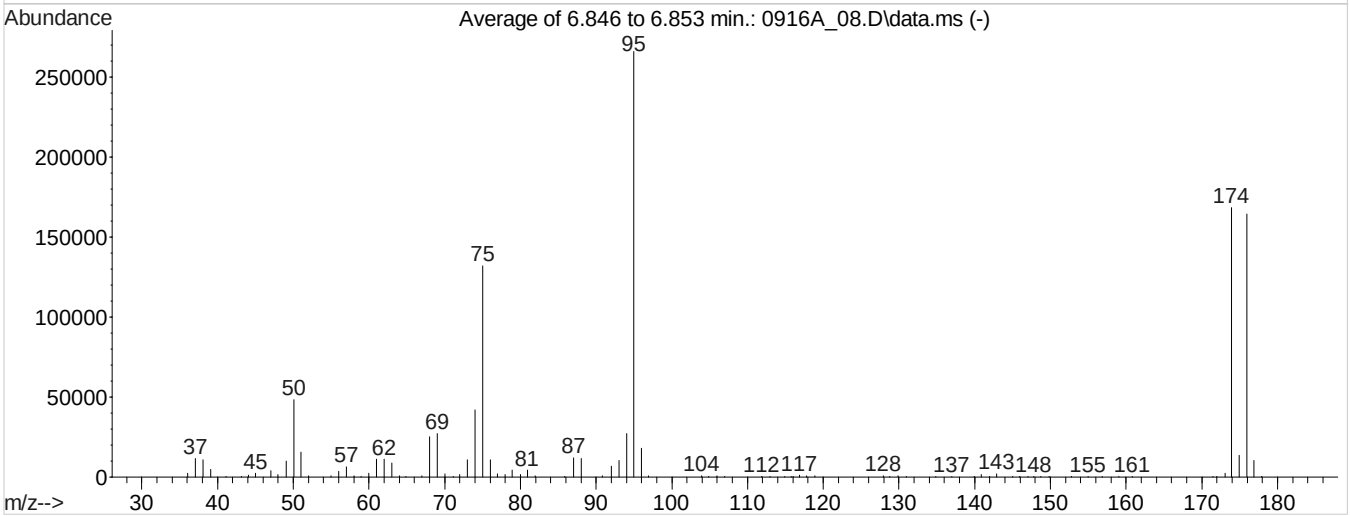
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	42605	PASS
75	95	30	60	48.2	106373	PASS
95	95	100	100	100.0	220629	PASS
96	95	5	9	6.2	13777	PASS
173	174	0.00	2	0.9	1181	PASS
174	95	50	150	62.1	136957	PASS
175	174	5	9	7.6	10434	PASS
176	174	95	101	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





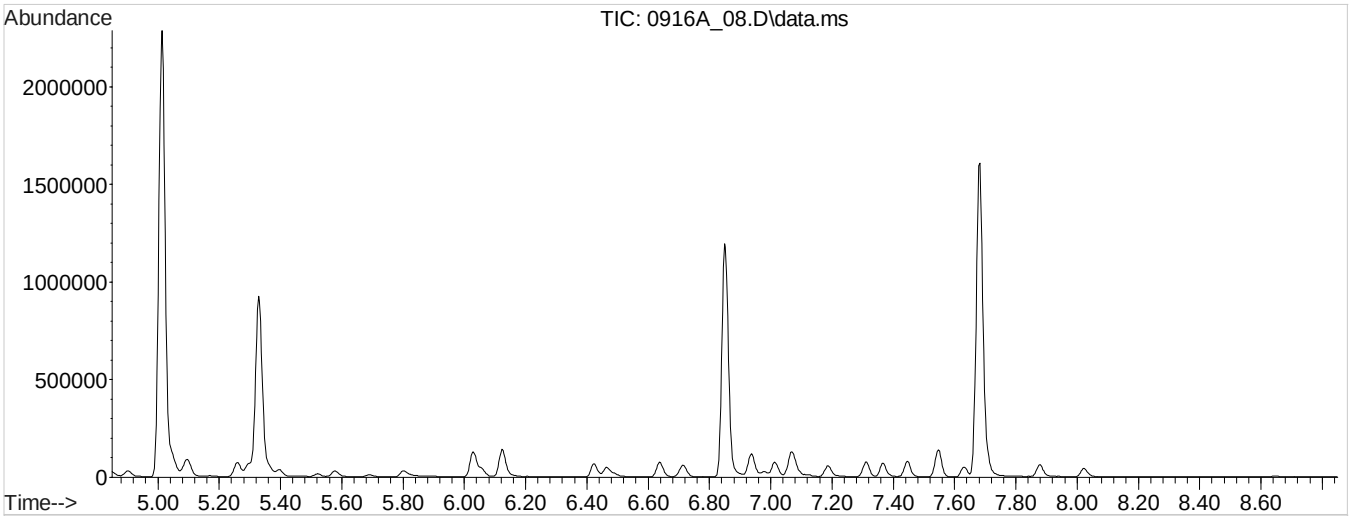
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

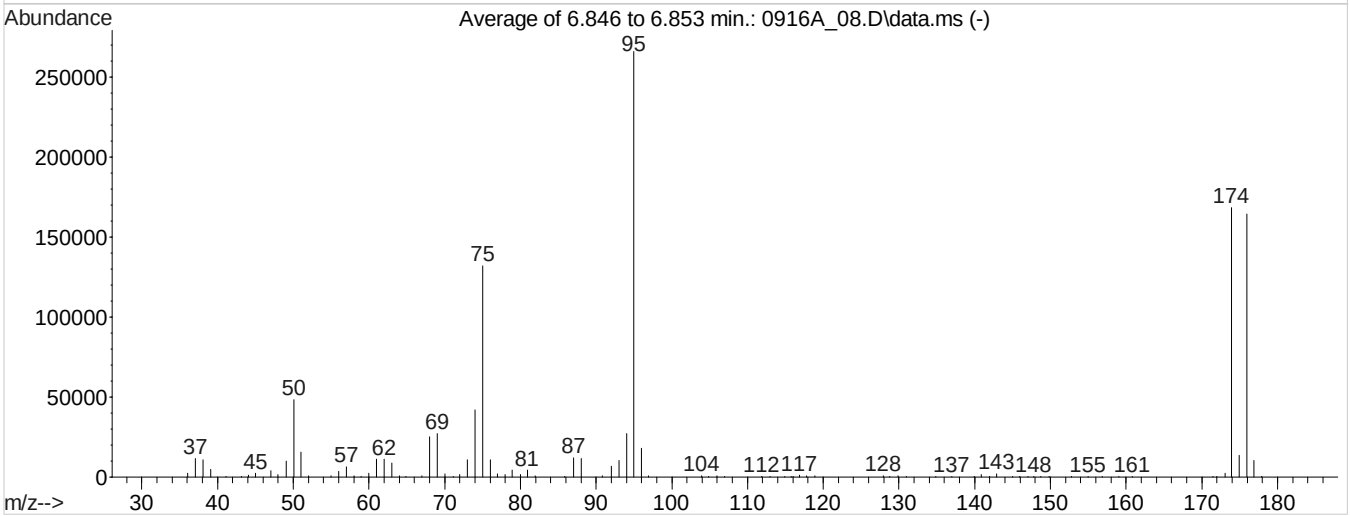
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	48357	PASS
75	95	30	60	49.5	131797	PASS
95	95	100	100	100.0	266219	PASS
96	95	5	9	6.7	17917	PASS
173	174	0.00	2	1.3	2203	PASS
174	95	50	150	63.3	168405	PASS
175	174	5	9	8.1	13611	PASS
176	174	95	101	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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Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

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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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Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 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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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	: 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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Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

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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	: EPA	Released On	: 9/17/2014 11:07:06 AM

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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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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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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	: 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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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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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
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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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
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

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
-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	: 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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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

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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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

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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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

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
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	: 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

Environmental Science Corporation
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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
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
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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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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INITIAL CALIBRATION SUMMARY

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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
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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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
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
sec-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

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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
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

Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

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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
-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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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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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
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,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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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
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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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
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	

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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
-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																								

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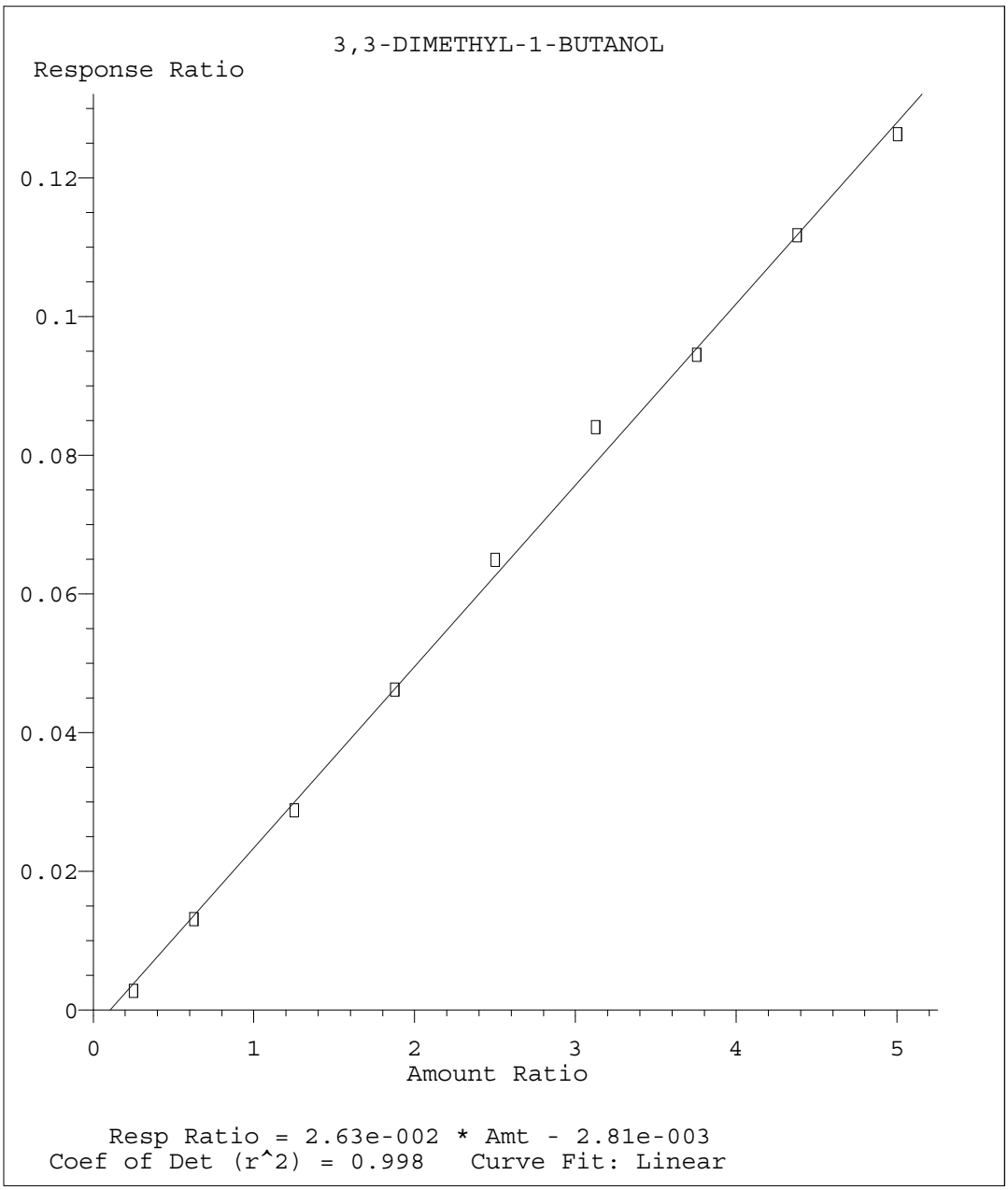

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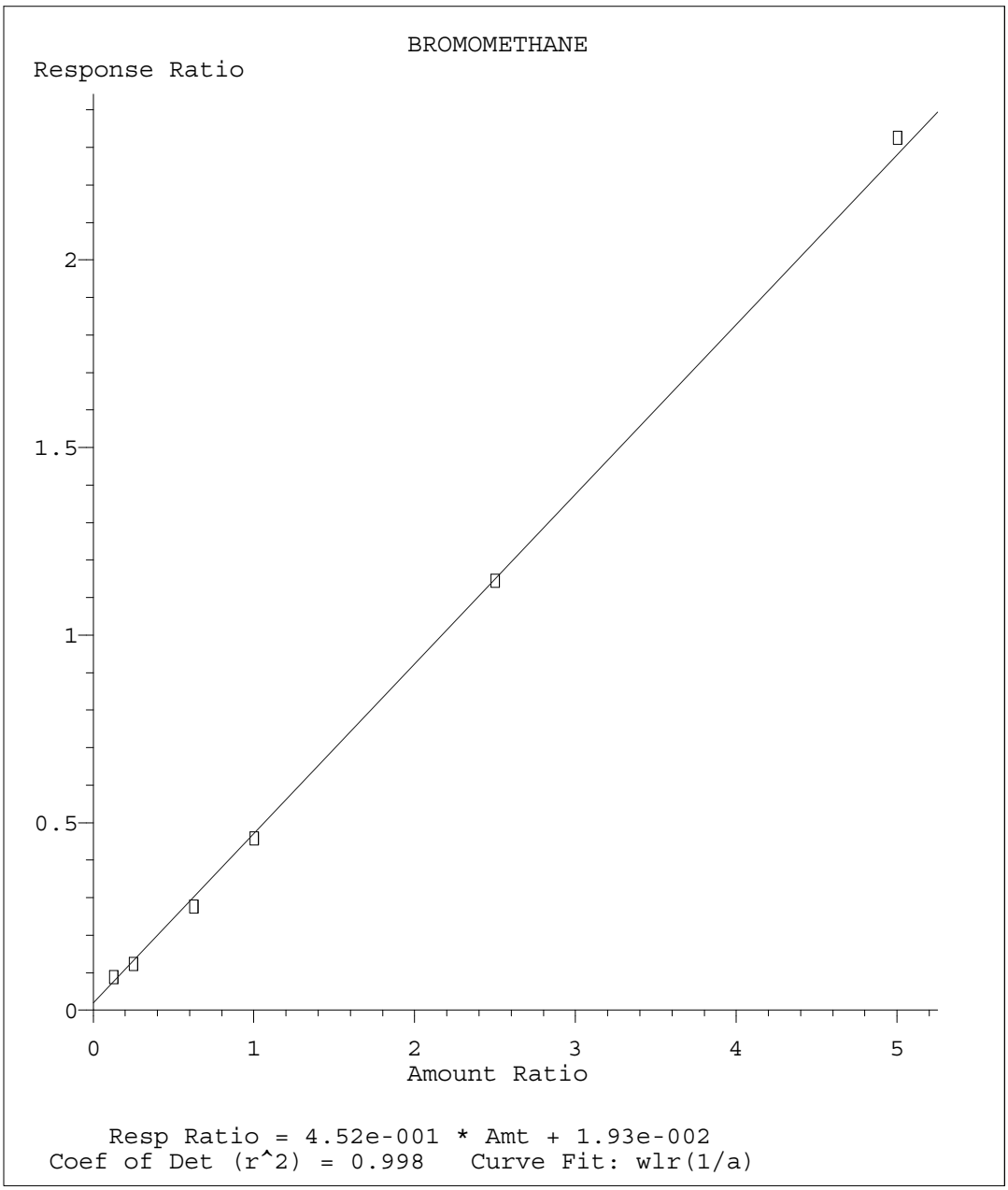

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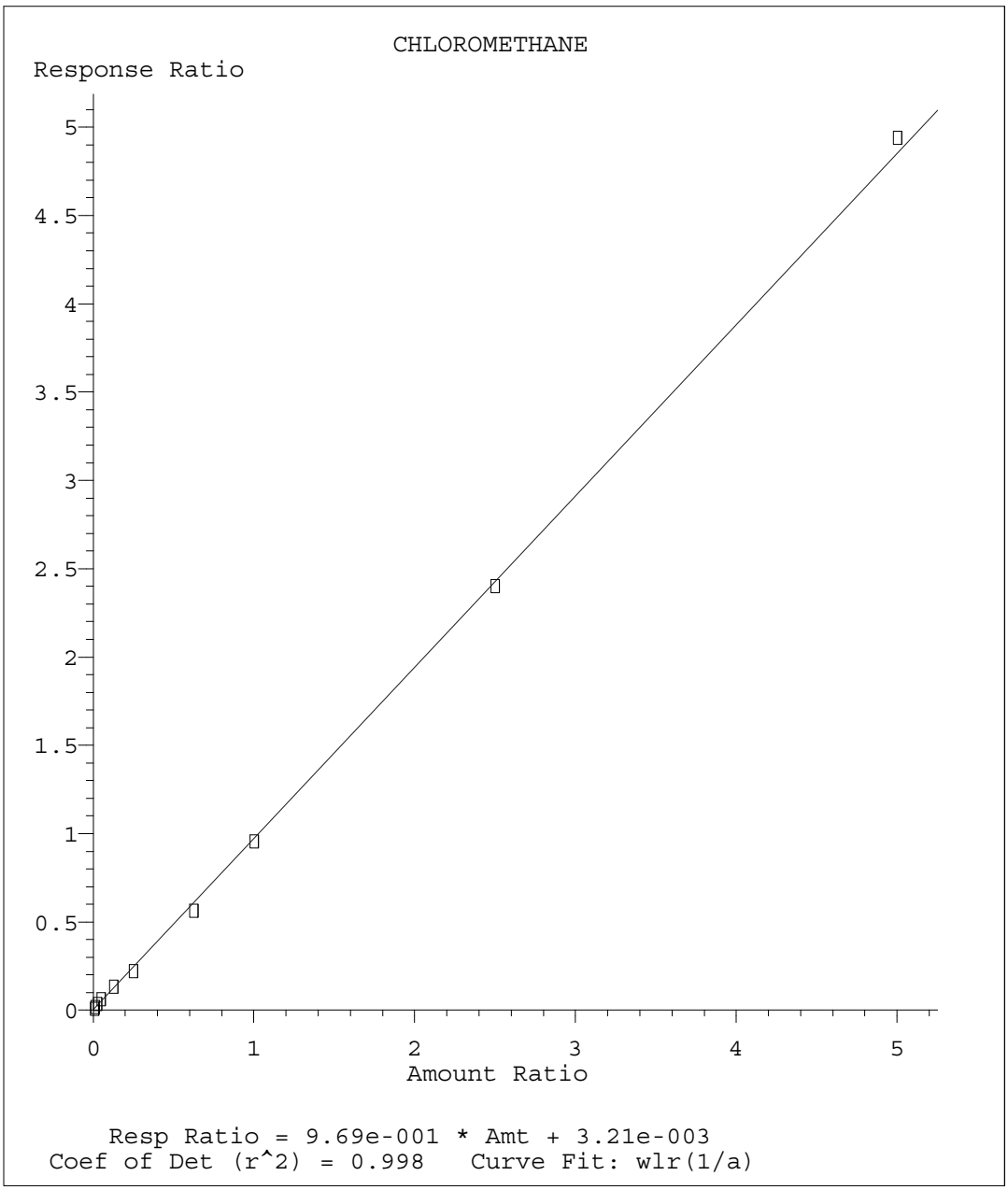
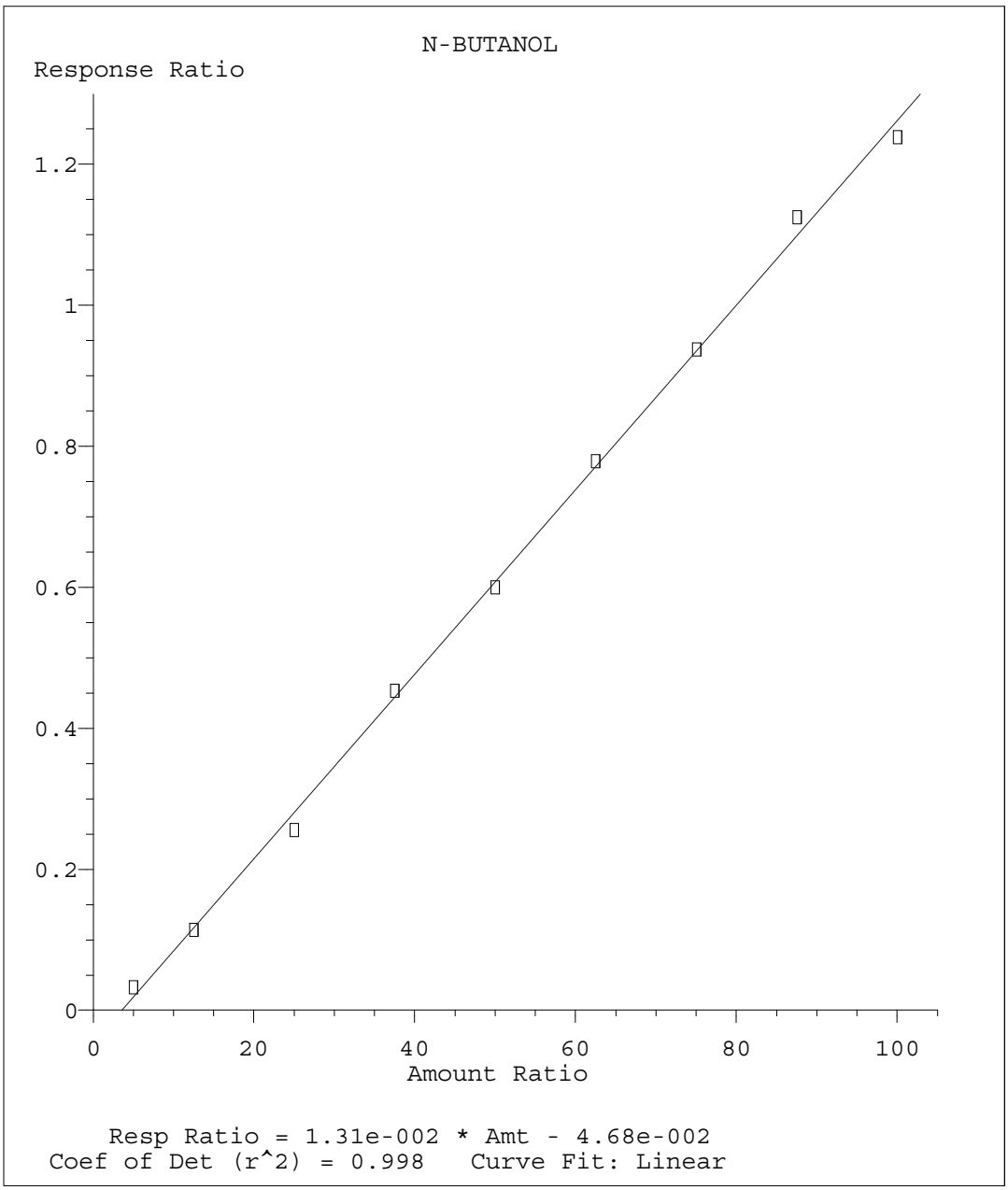
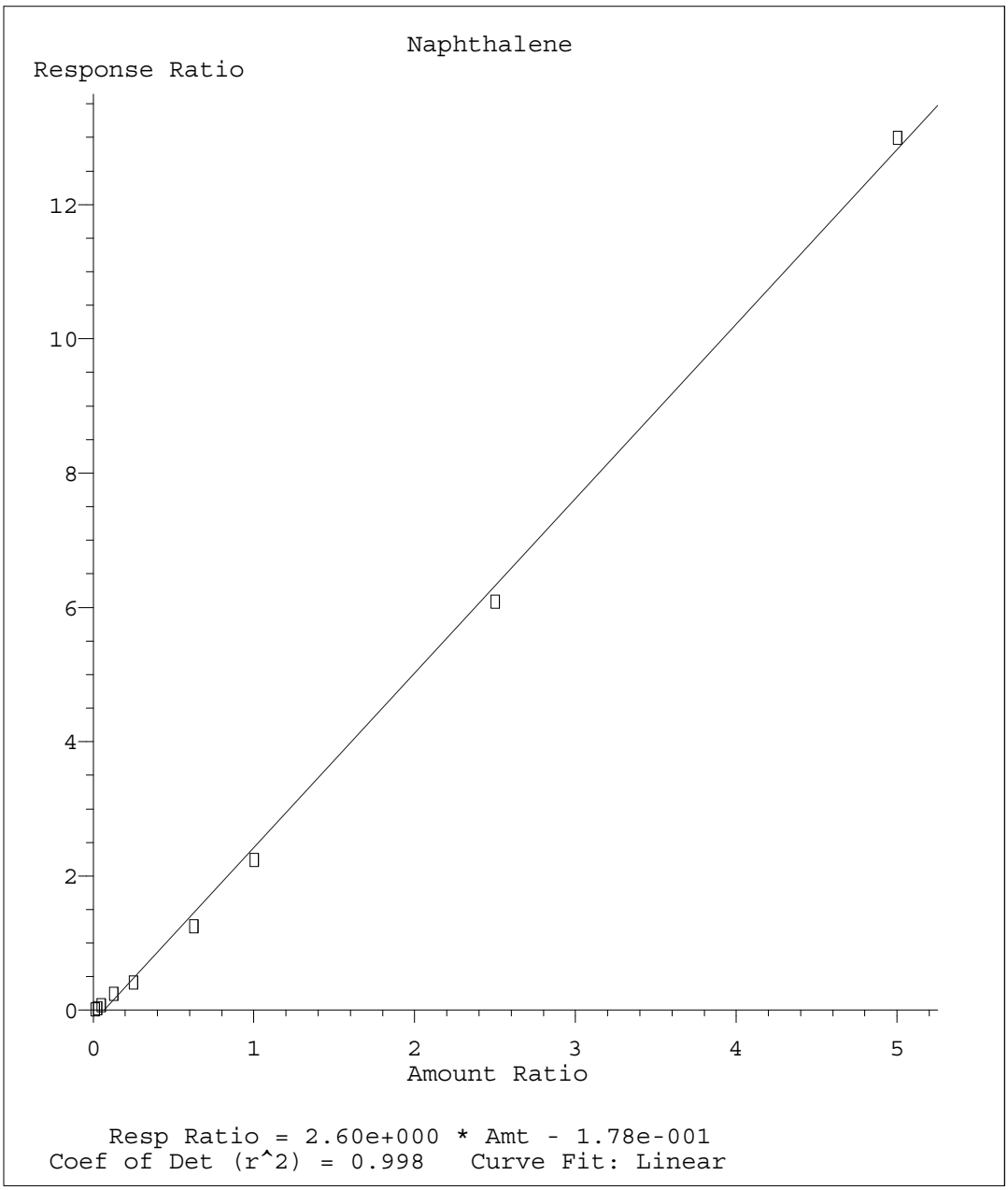


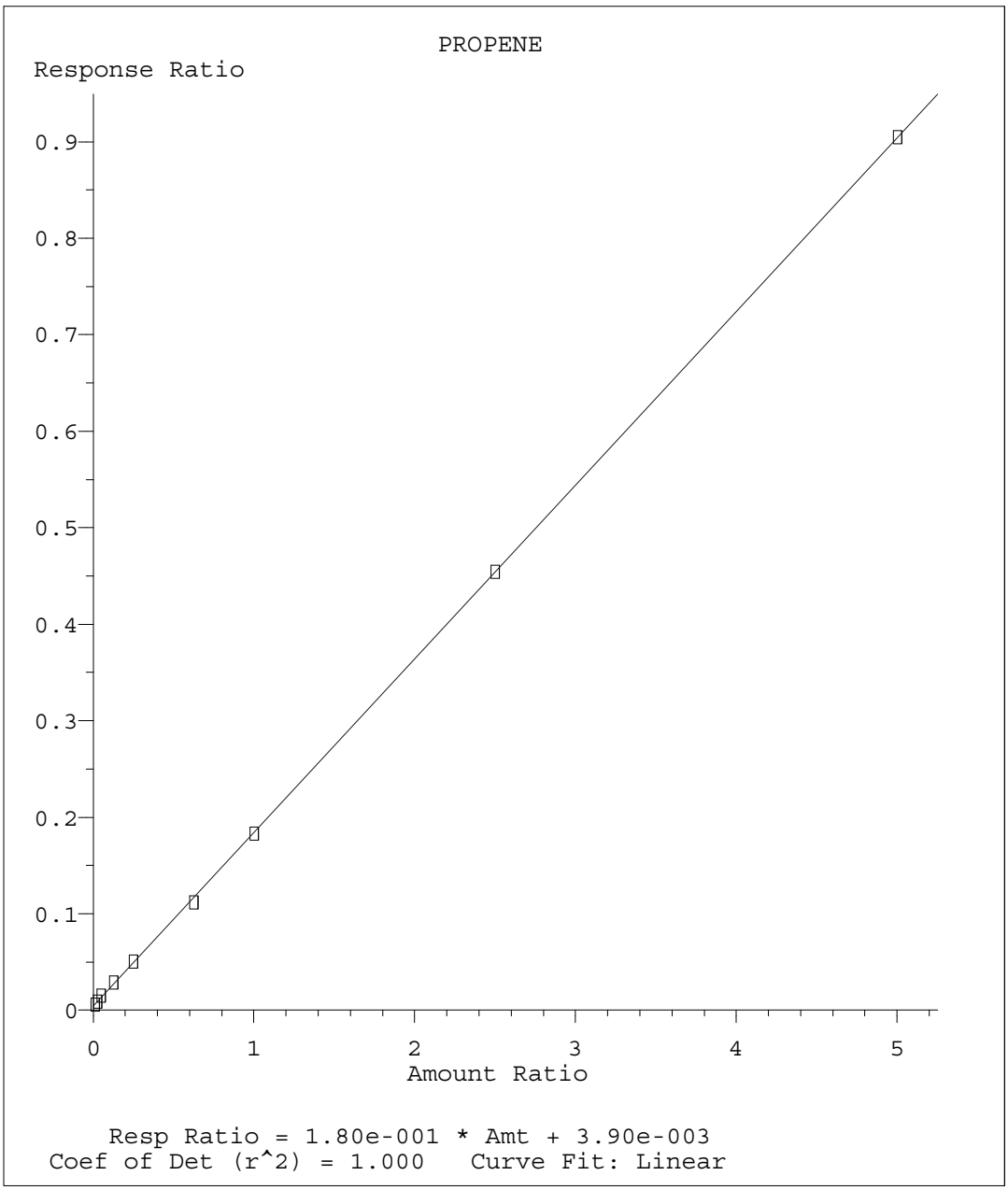
Method Name: C:\msdchem\1\methods\V821I16N.M



Method Name: C:\msdchem\1\methods\V821I16N.M



Method Name: C:\msdchem\1\methods\V821I16N.M



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

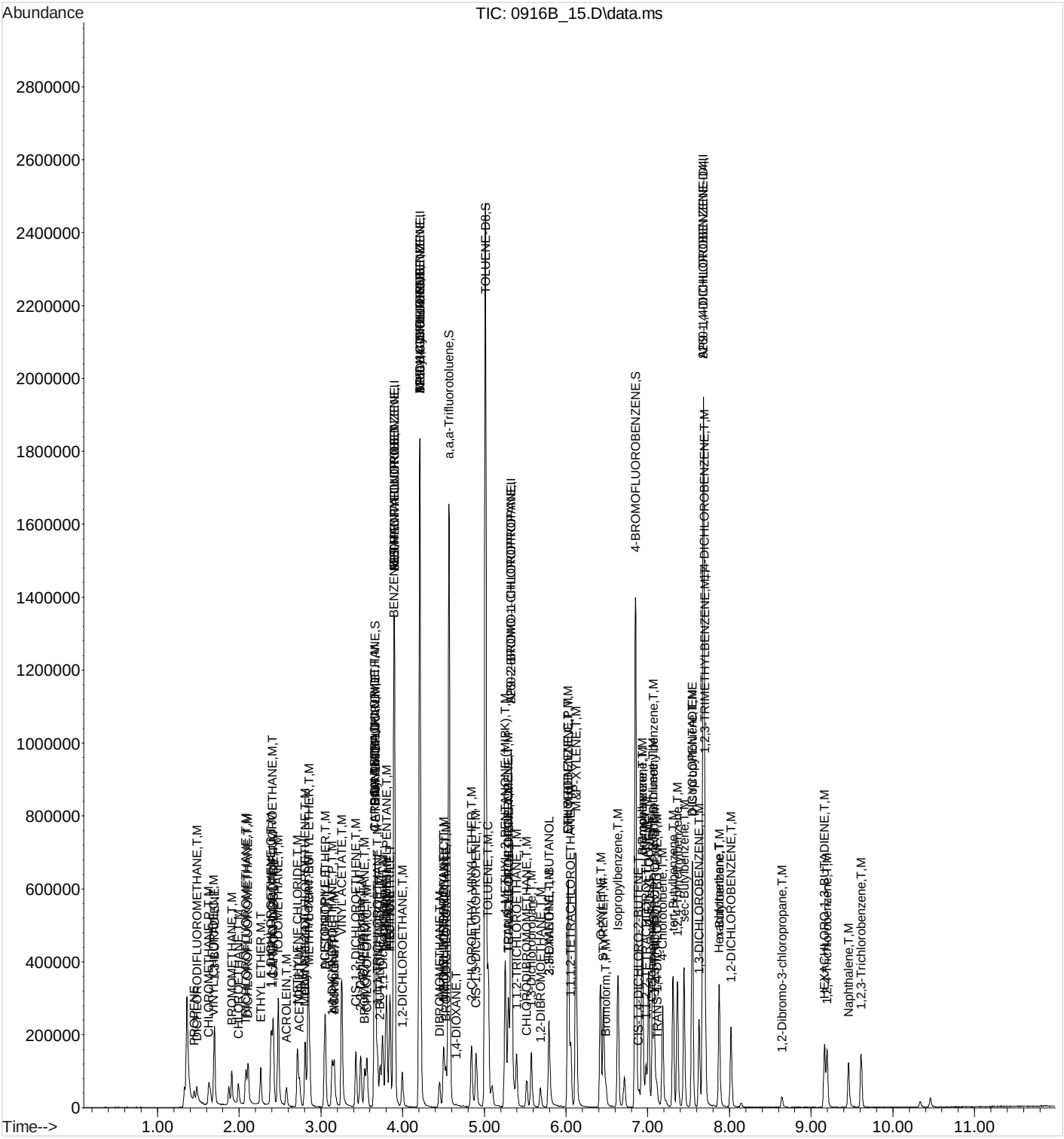
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	5338	0.8984367 ppb #	74
101)	ACETONITRILE	3.049	41	26840	23.0492190 ppb #	37
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	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

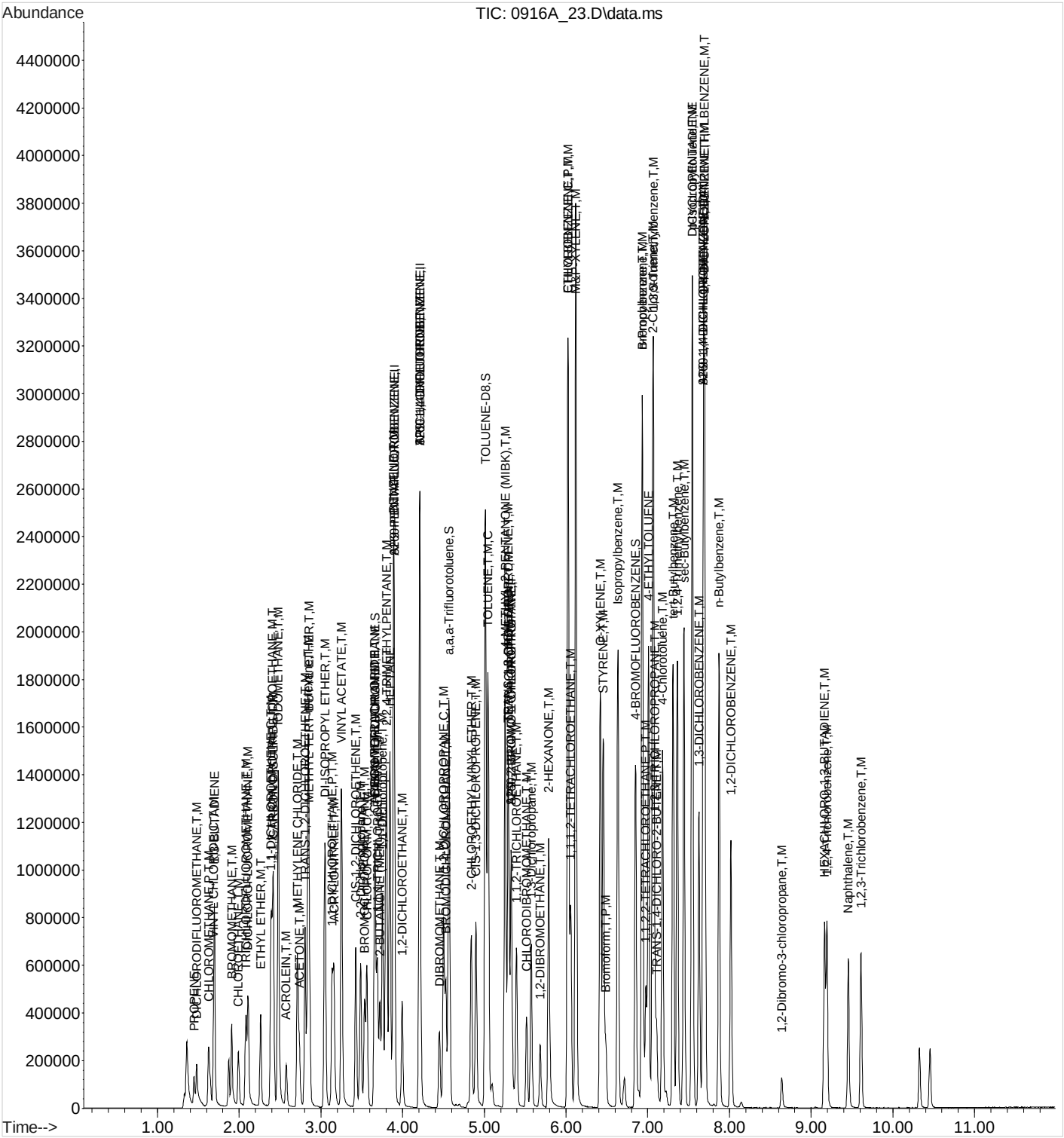
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.798	43	13294	No Calib	#
101)	ACETONITRILE	3.049	41	115726	No Calib	#
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.888	59	629	No 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

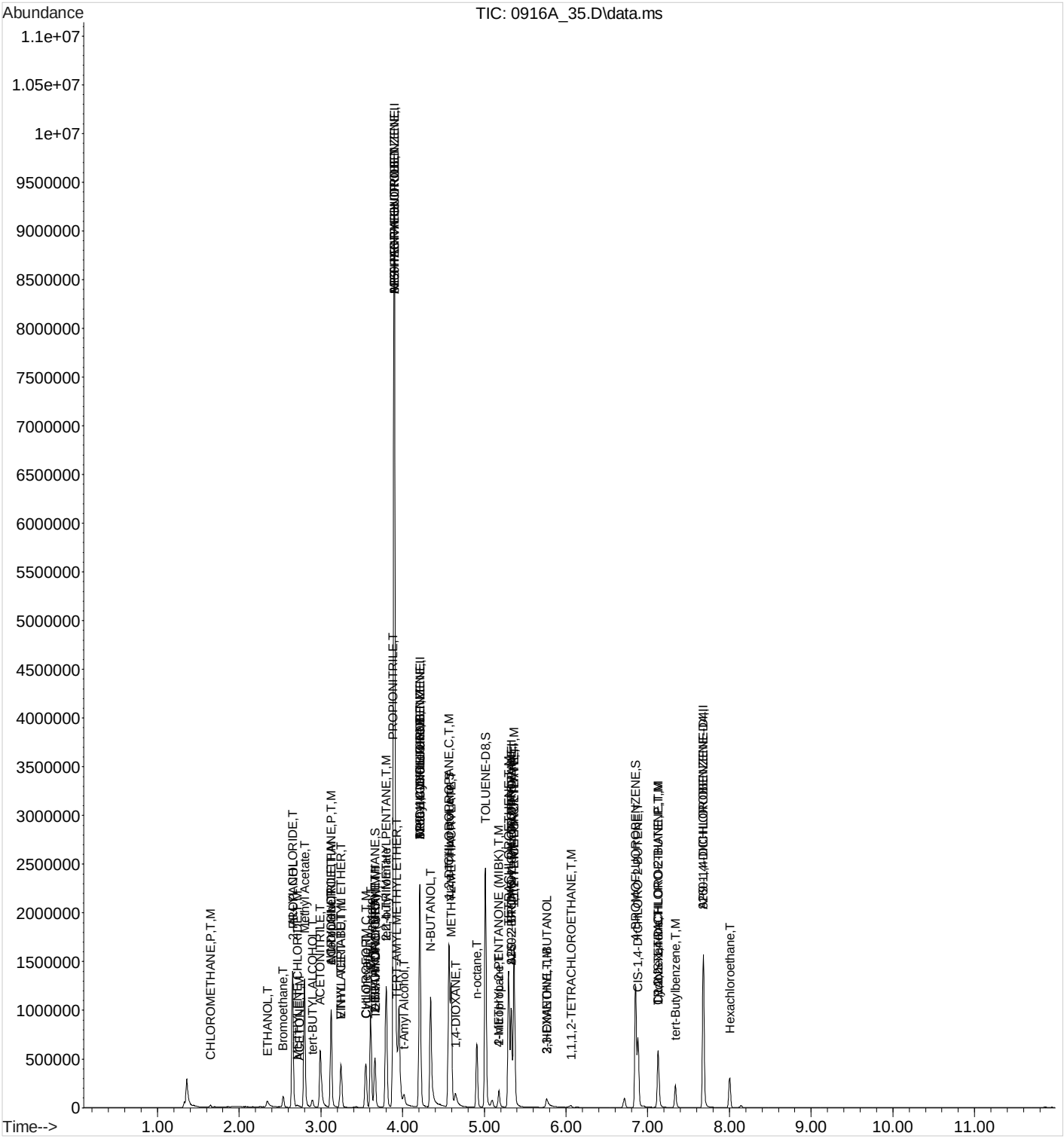
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.345	45	85189	884.5190577 ppb	#	96
98)	Bromoethane	2.538	108	64211	10.0643038 ppb		100
99)	2-PROPANOL	2.657	45	27708	49.3851852 ppb	#	88
100)	Methyl Acetate	2.798	43	1241508	202.8237385 ppb	#	100
101)	ACETONITRILE	2.991	41	613519	511.4015546 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

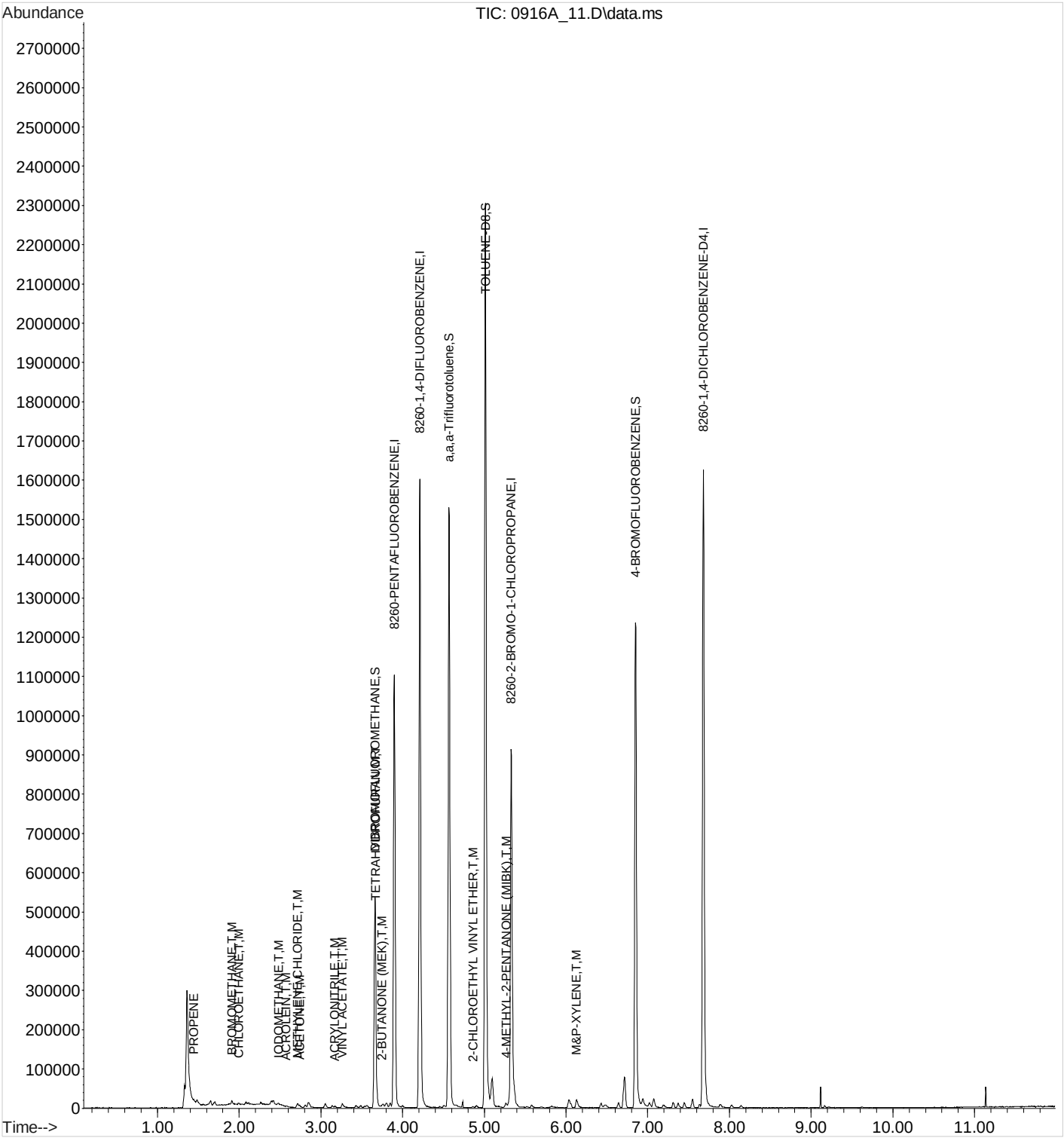
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d	
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	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

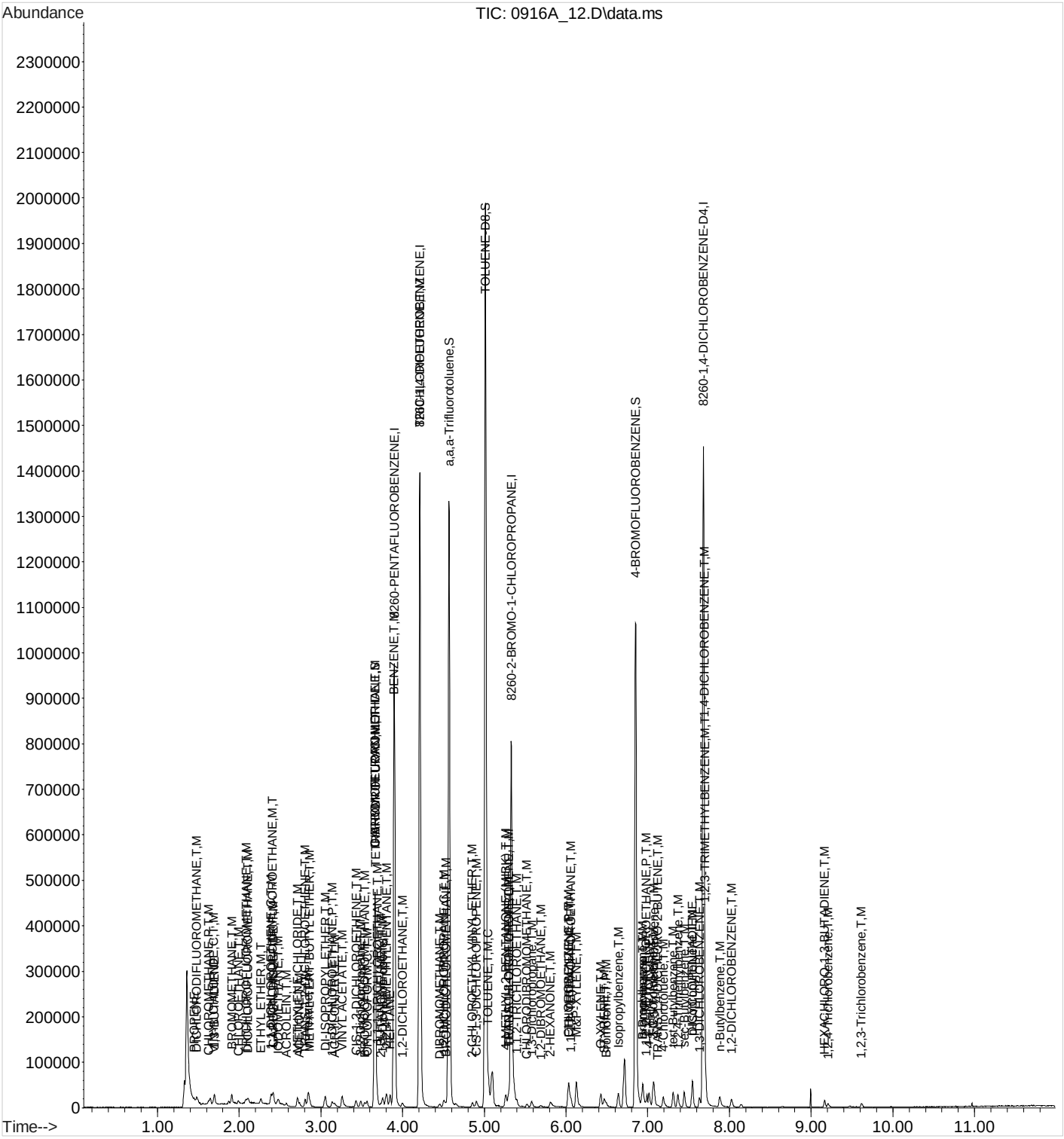
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	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

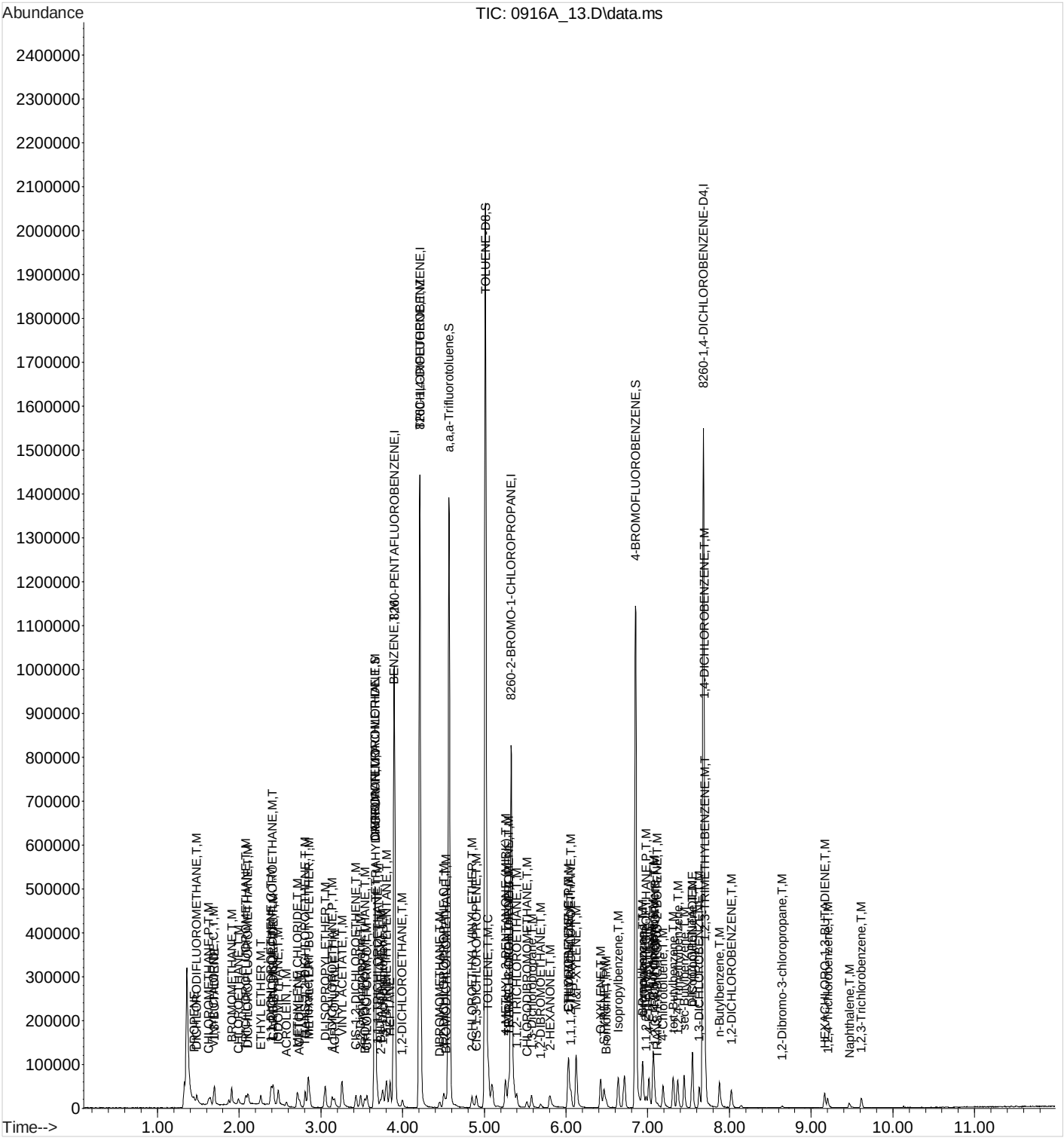
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	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

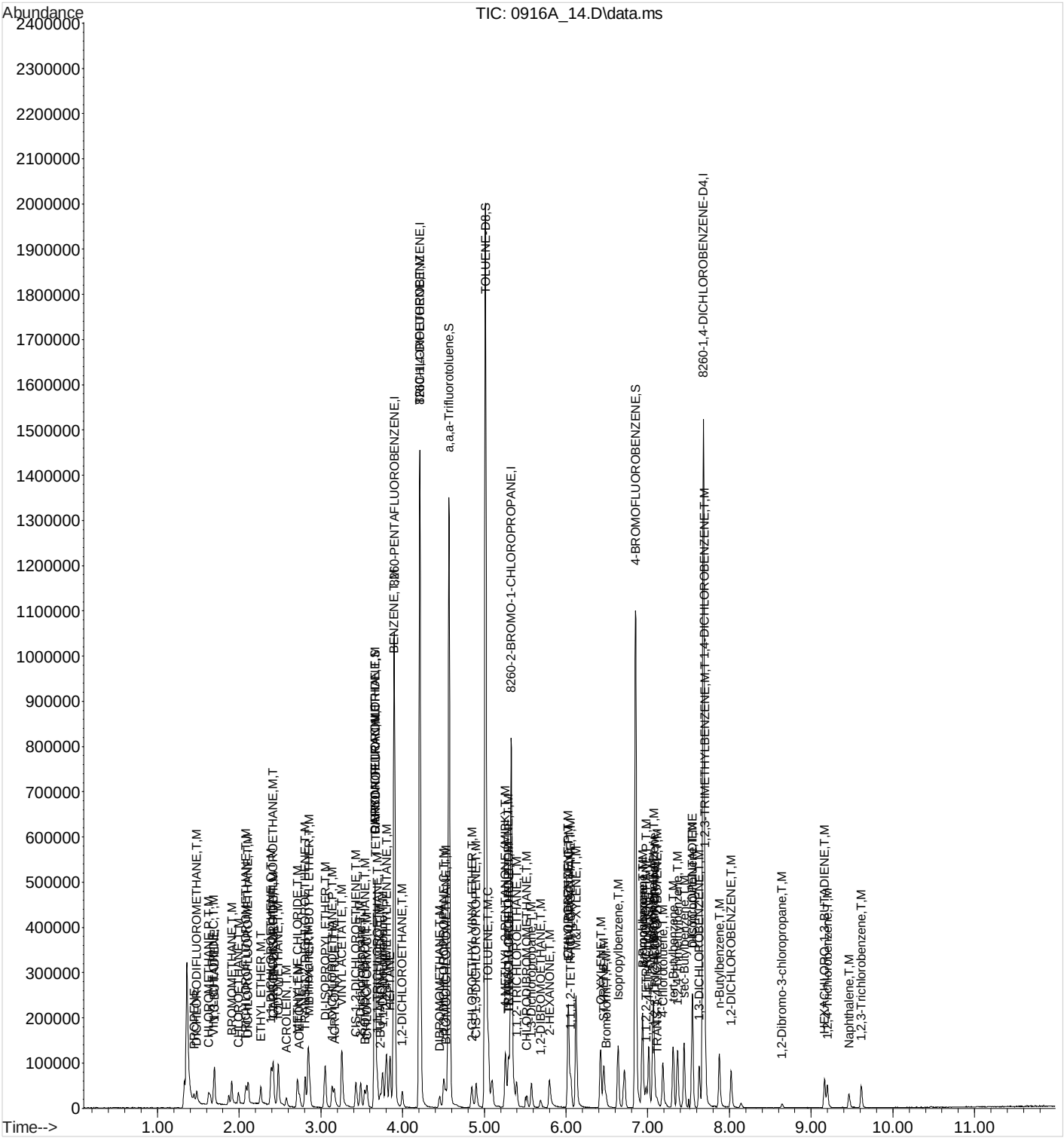
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		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

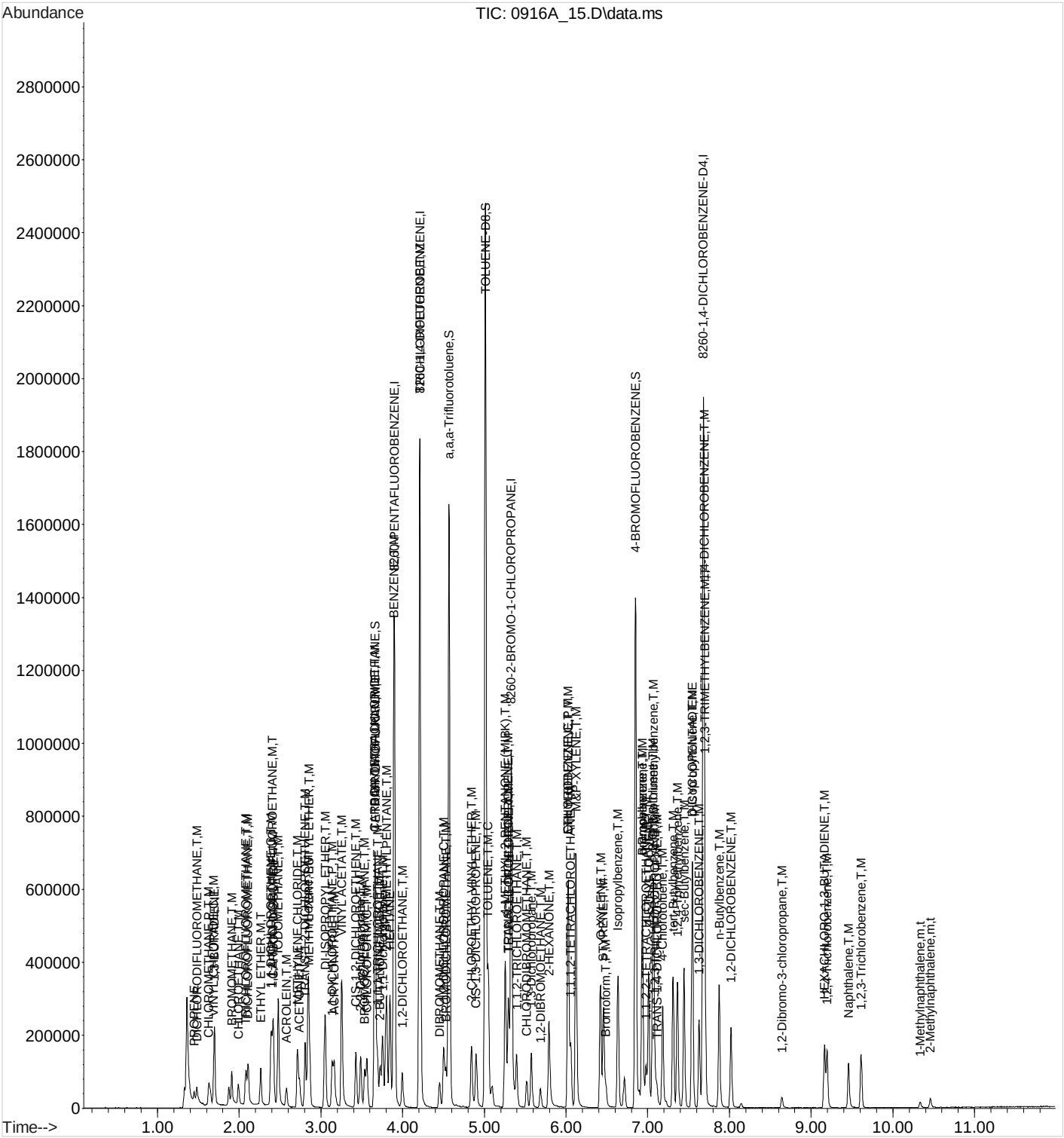
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	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

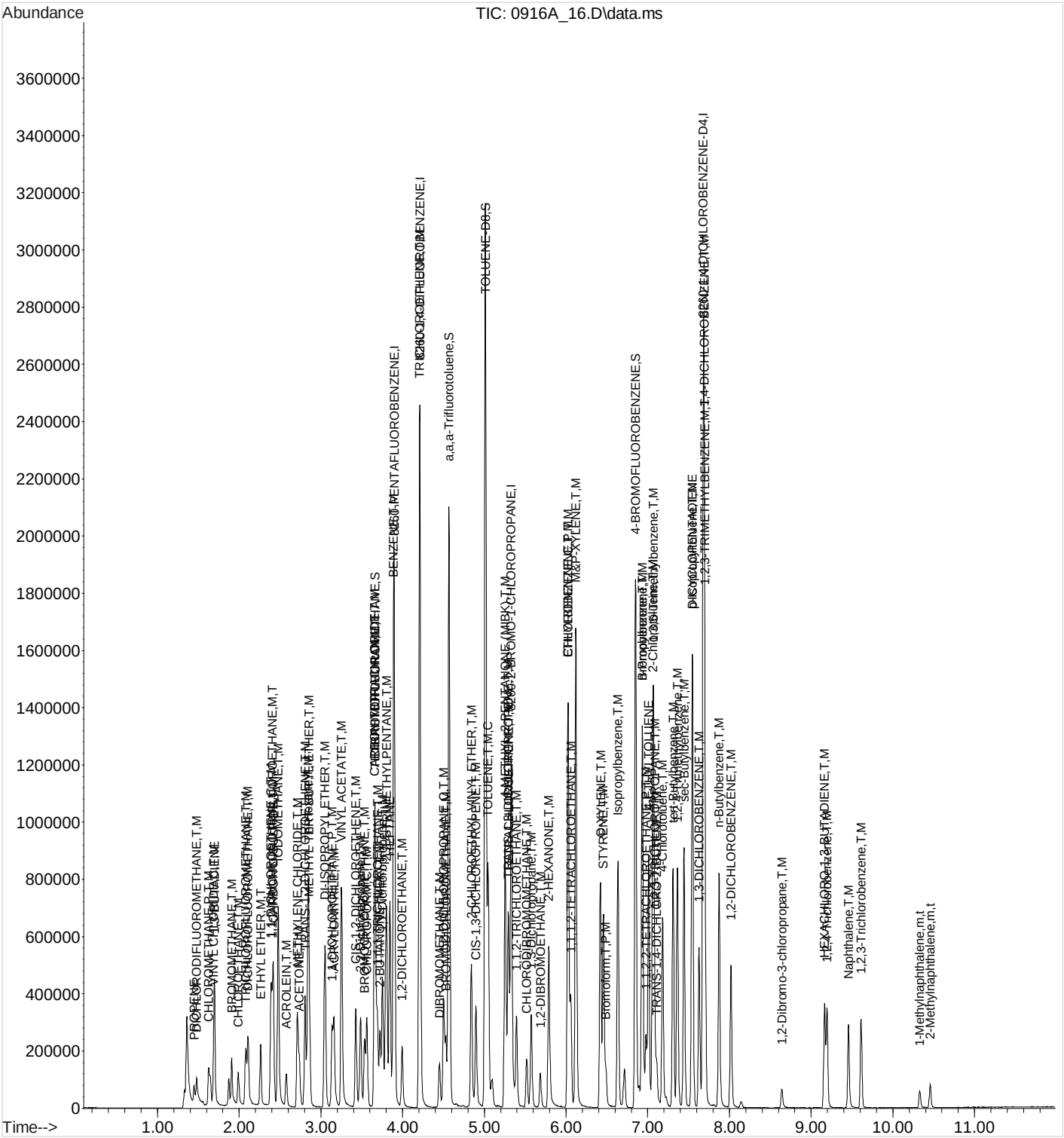
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	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

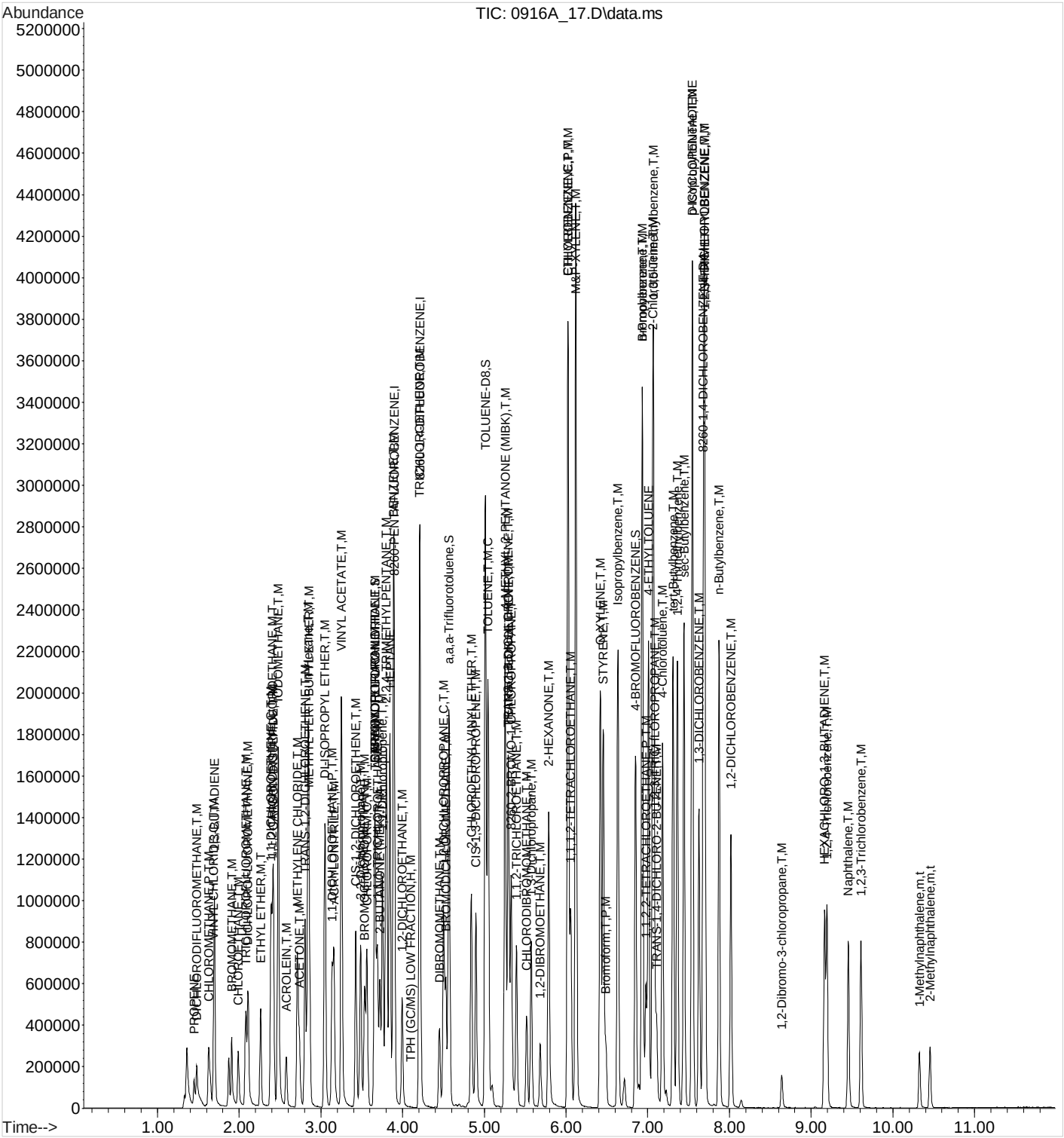
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	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

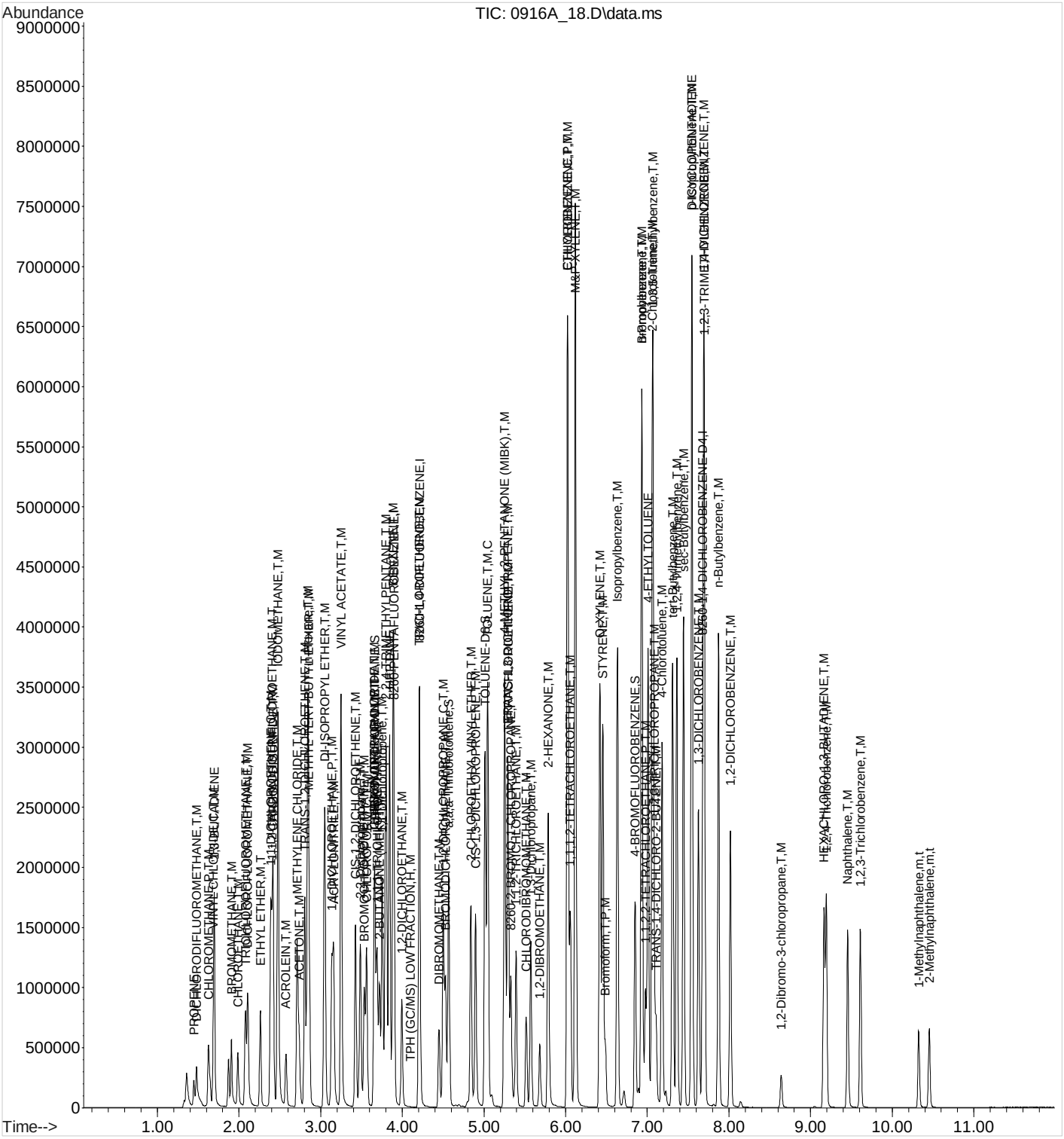
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	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

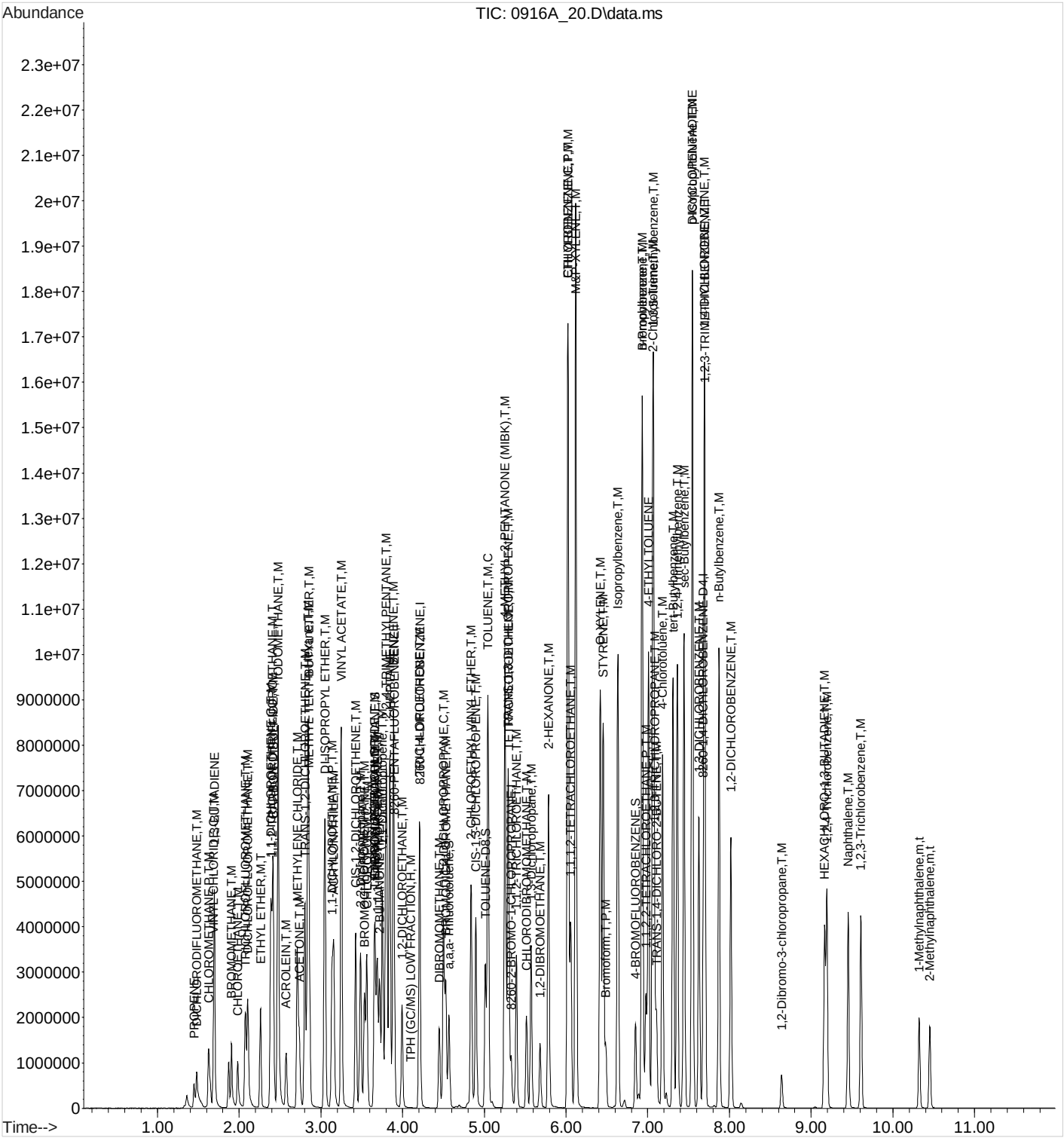
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.	d	
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	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

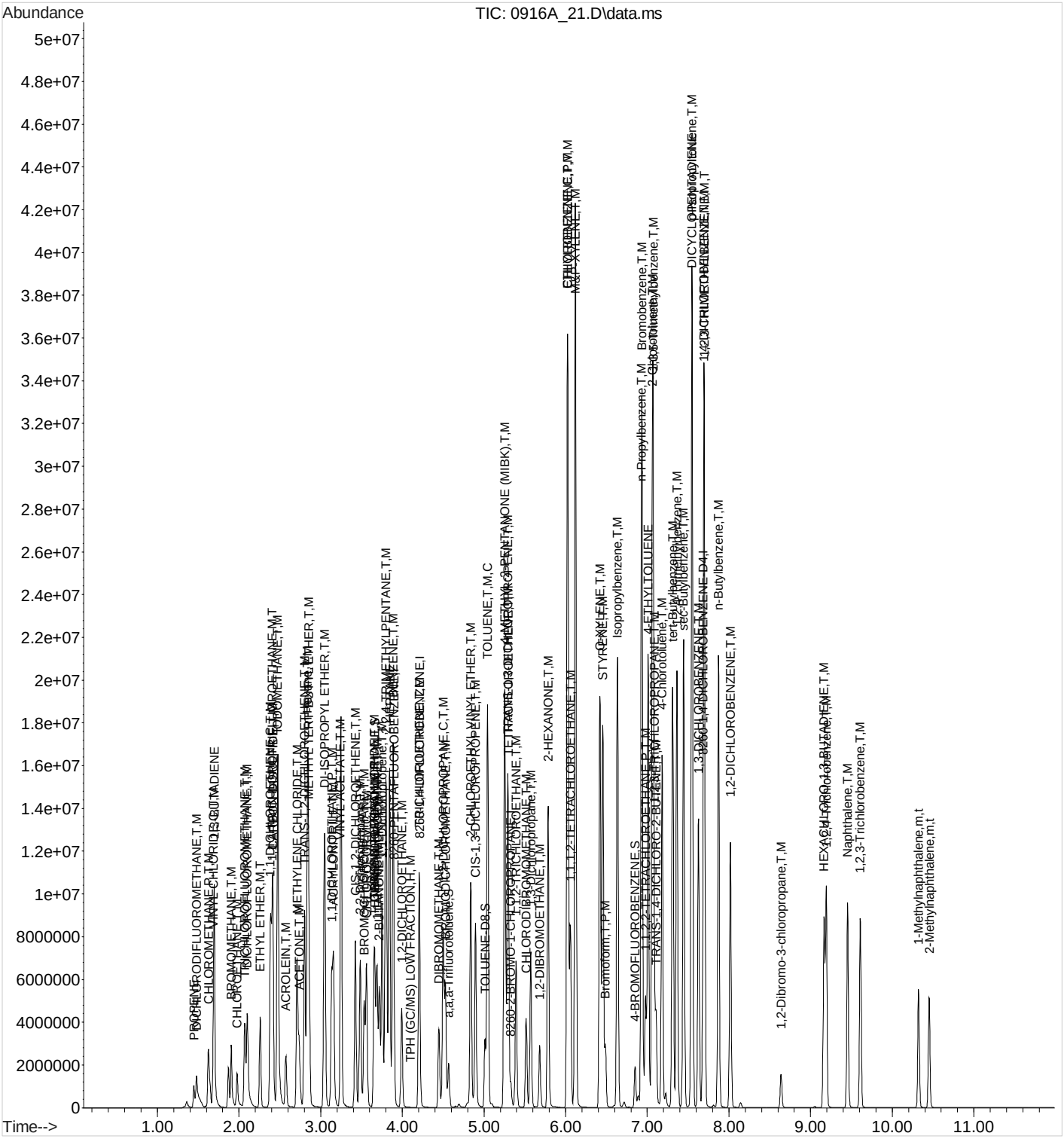
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		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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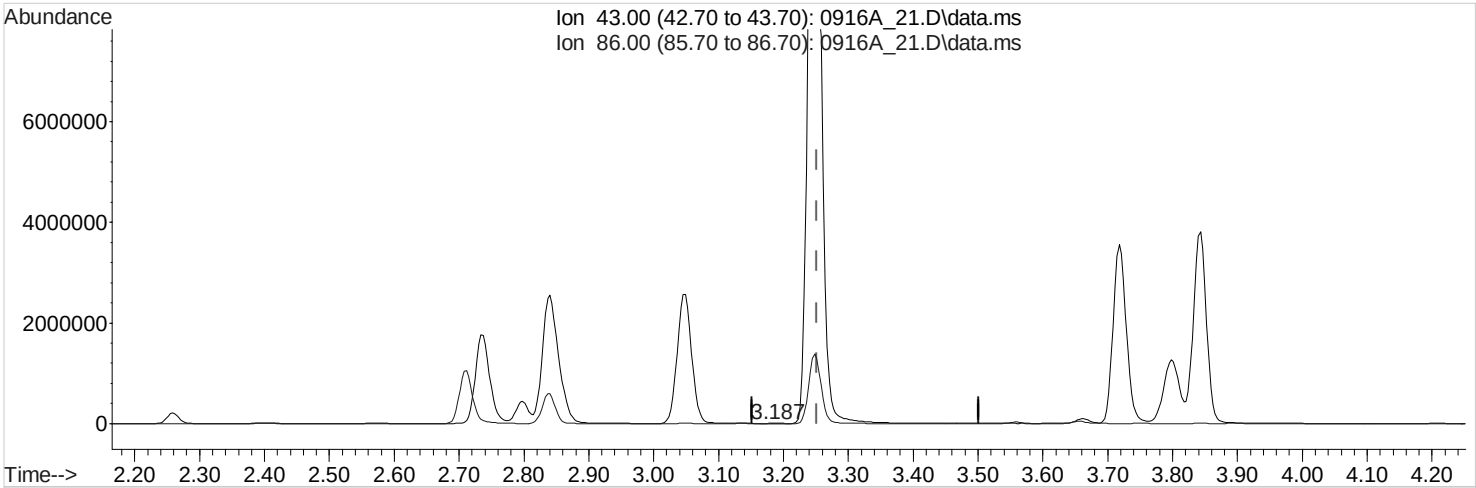

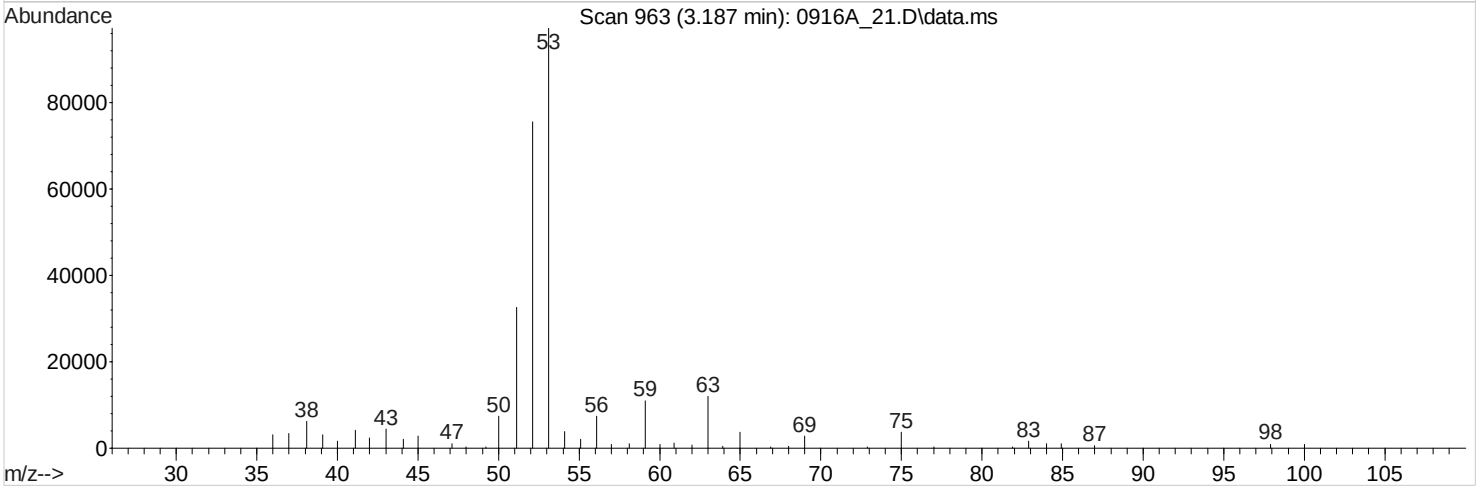

TIC: 0916A_21.D\data.ms

(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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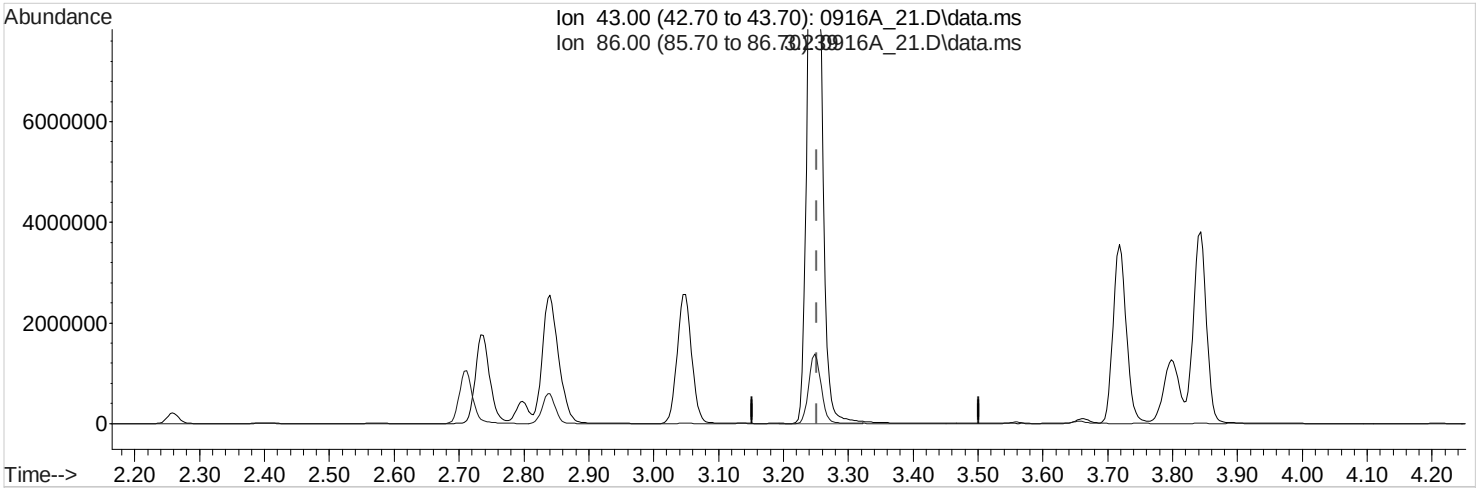

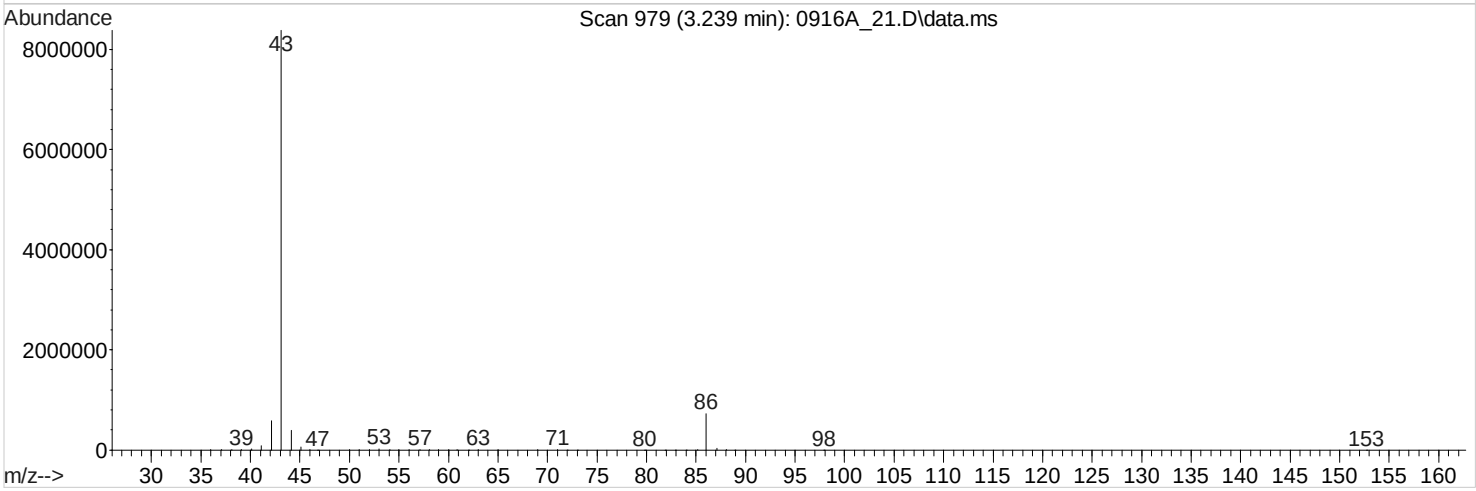

TIC: 0916A_21.D\data.ms

(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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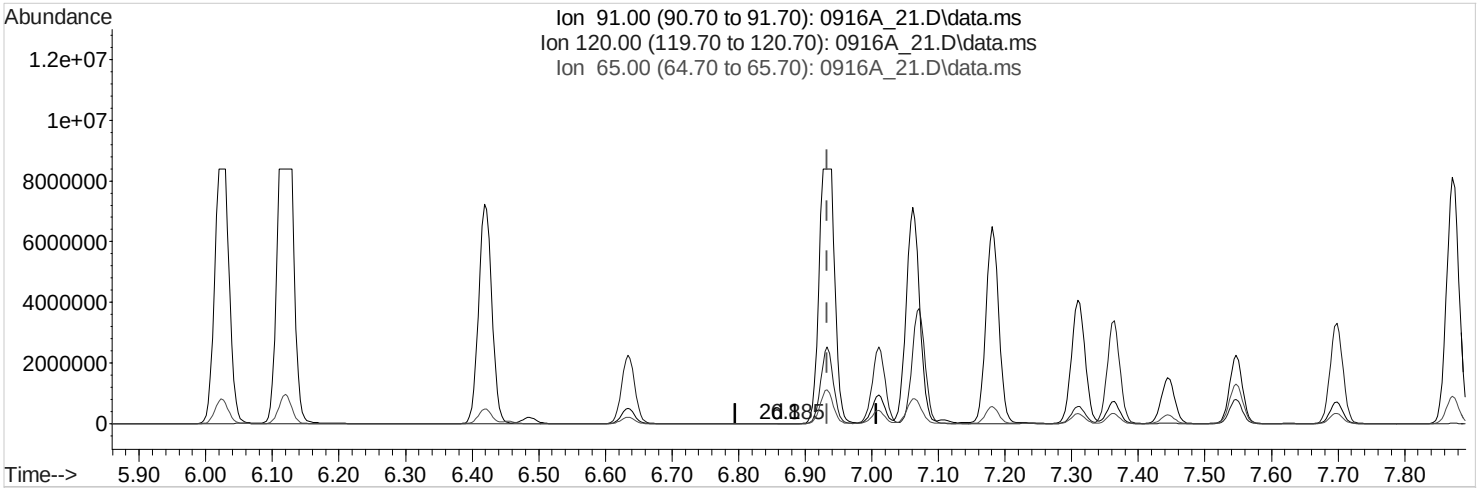
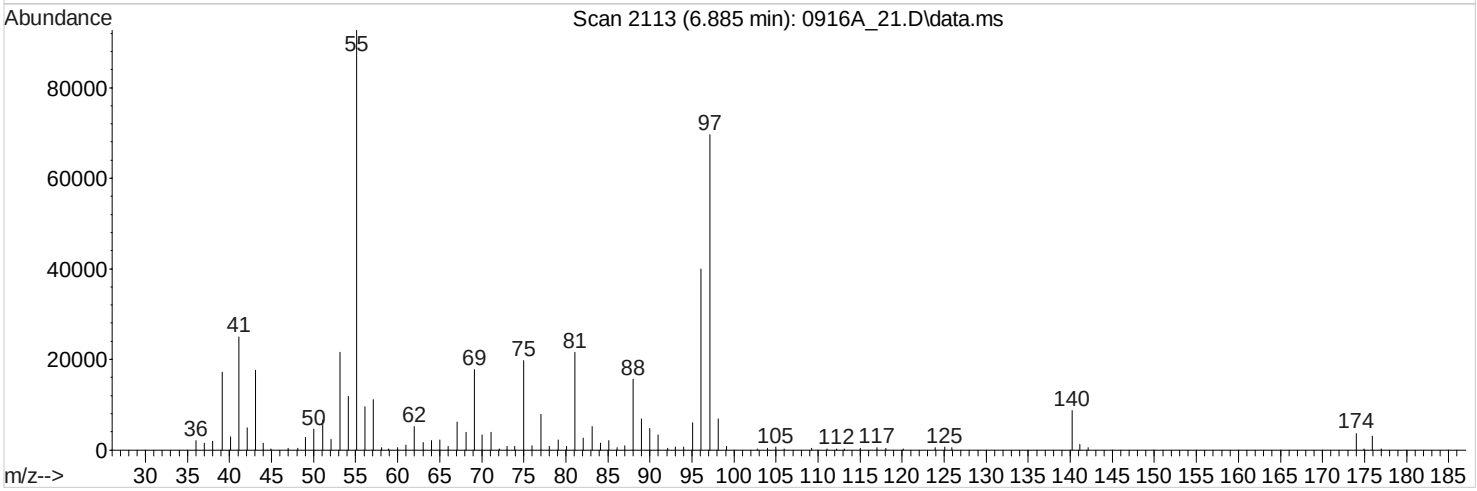




TIC: 0916A_21.D\data.ms

(73) n-Propylbenzene (T,M)

6.885min (-0.048) 0.0360726 ppb

Qvalue = 4

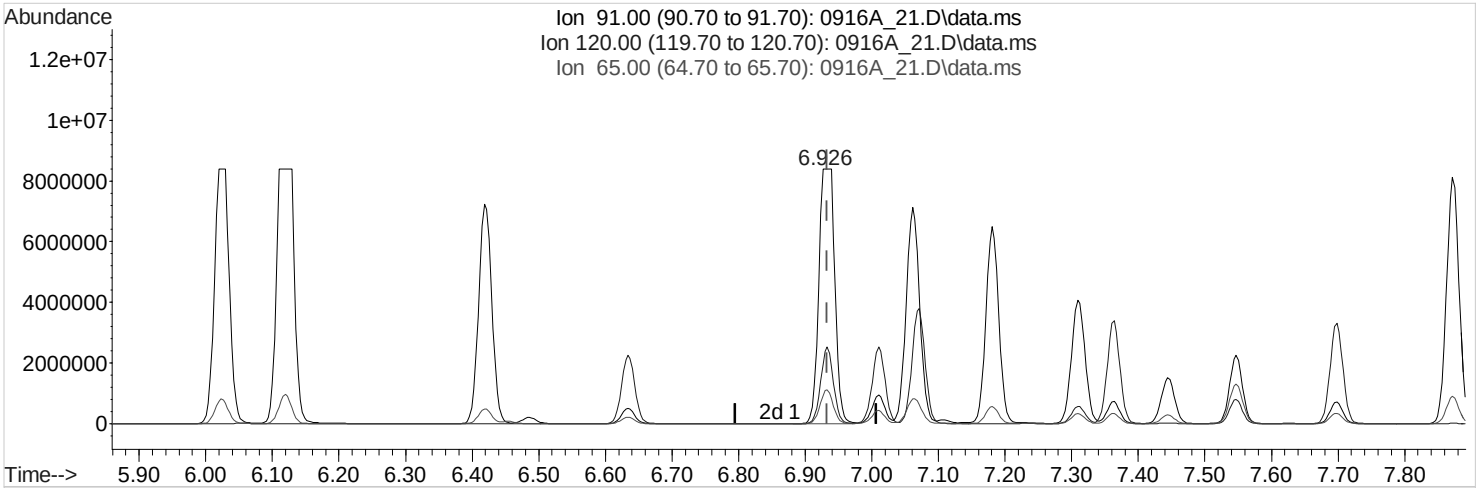
response 2405

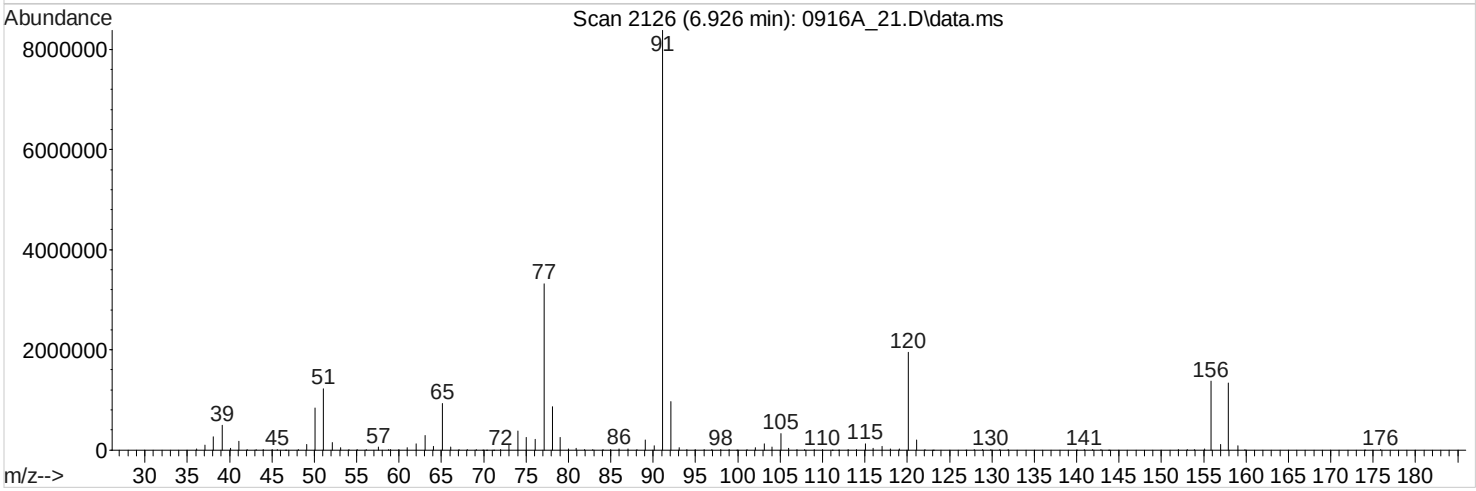
Ion	Exp%	Act%
91.00	100	100
120.00	21.00	0.00#
65.00	10.60	84.74#
0.00	0.00	0.00

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
```





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

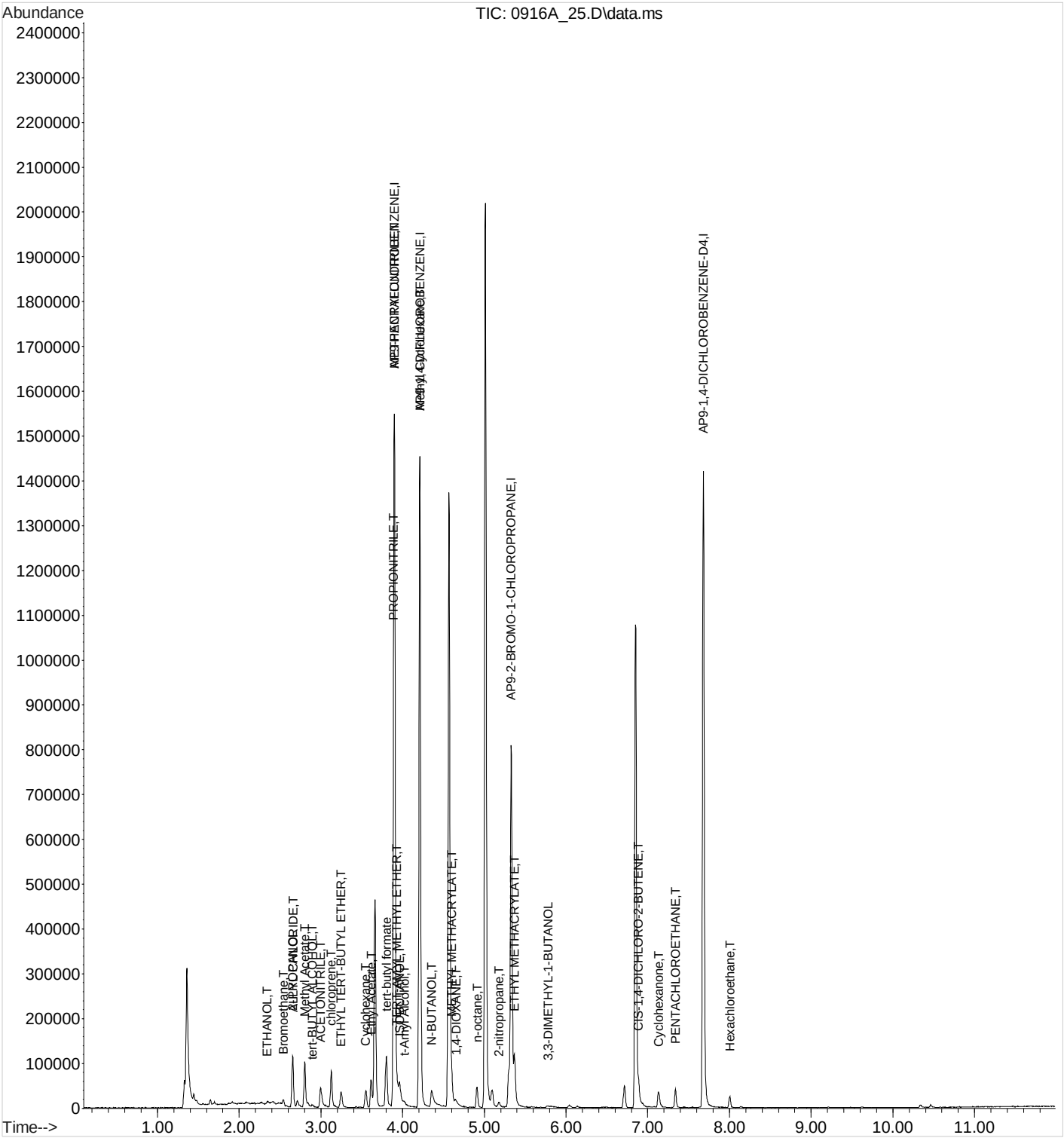
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.342	45	7736	96.8306828 ppb	#	99
98)	Bromoethane	2.541	108	5943	1.1185262 ppb		94
99)	2-PROPANOL	2.653	45	2229	4.2338101 ppb	#	67
100)	Methyl Acetate	2.801	43	103751	20.1836116 ppb	#	98
101)	ACETONITRILE	2.998	41	48660	47.8295740 ppb		94
102)	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

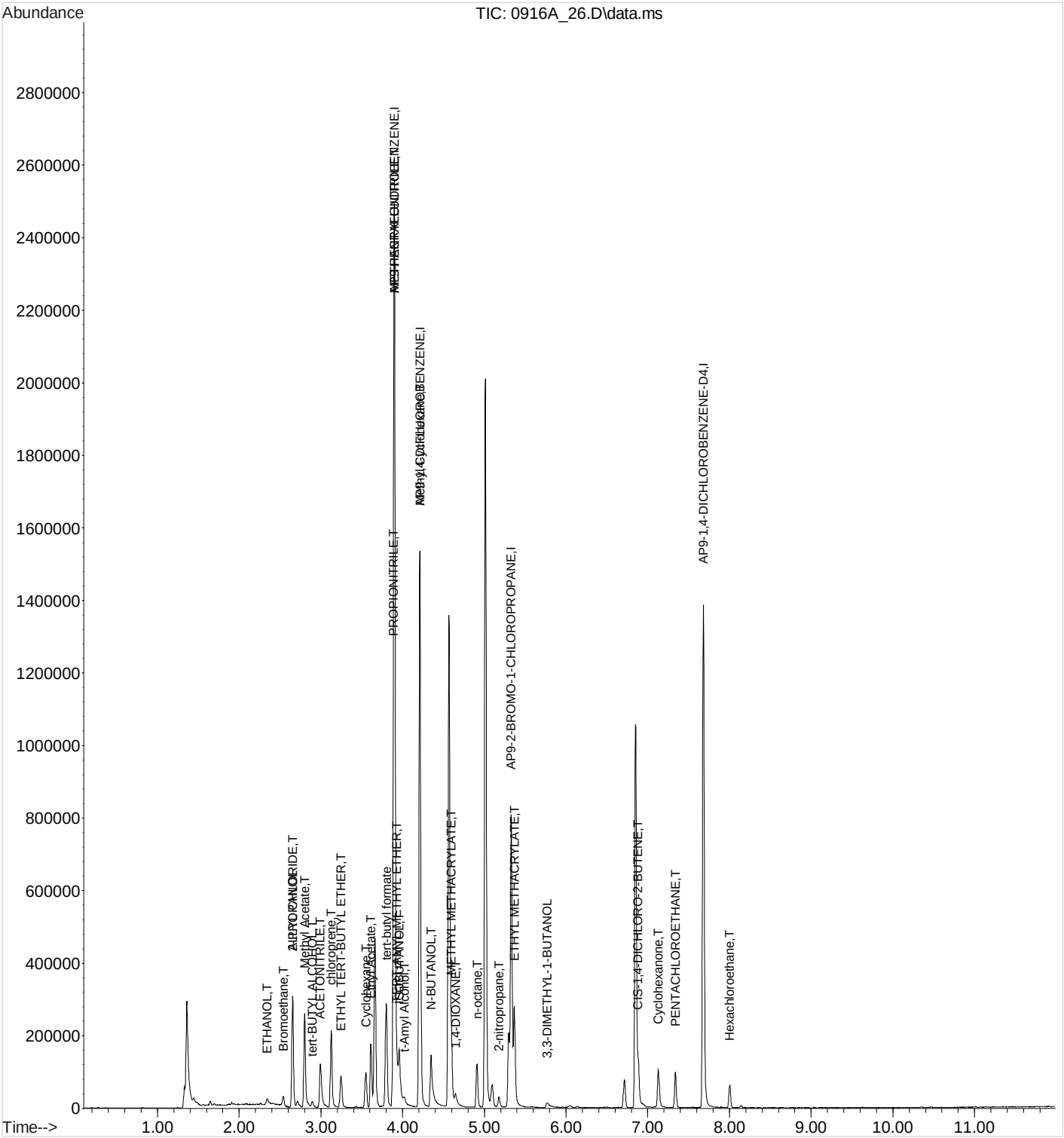
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	21749	266.0518004 ppb	#	95
98)	Bromoethane	2.541	108	14643	2.6934000 ppb		96
99)	2-PROPANOL	2.653	45	5668	10.5215937 ppb	#	80
100)	Methyl Acetate	2.801	43	260872	49.5980306 ppb	#	99
101)	ACETONITRILE	2.991	41	128406	123.3502691 ppb		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

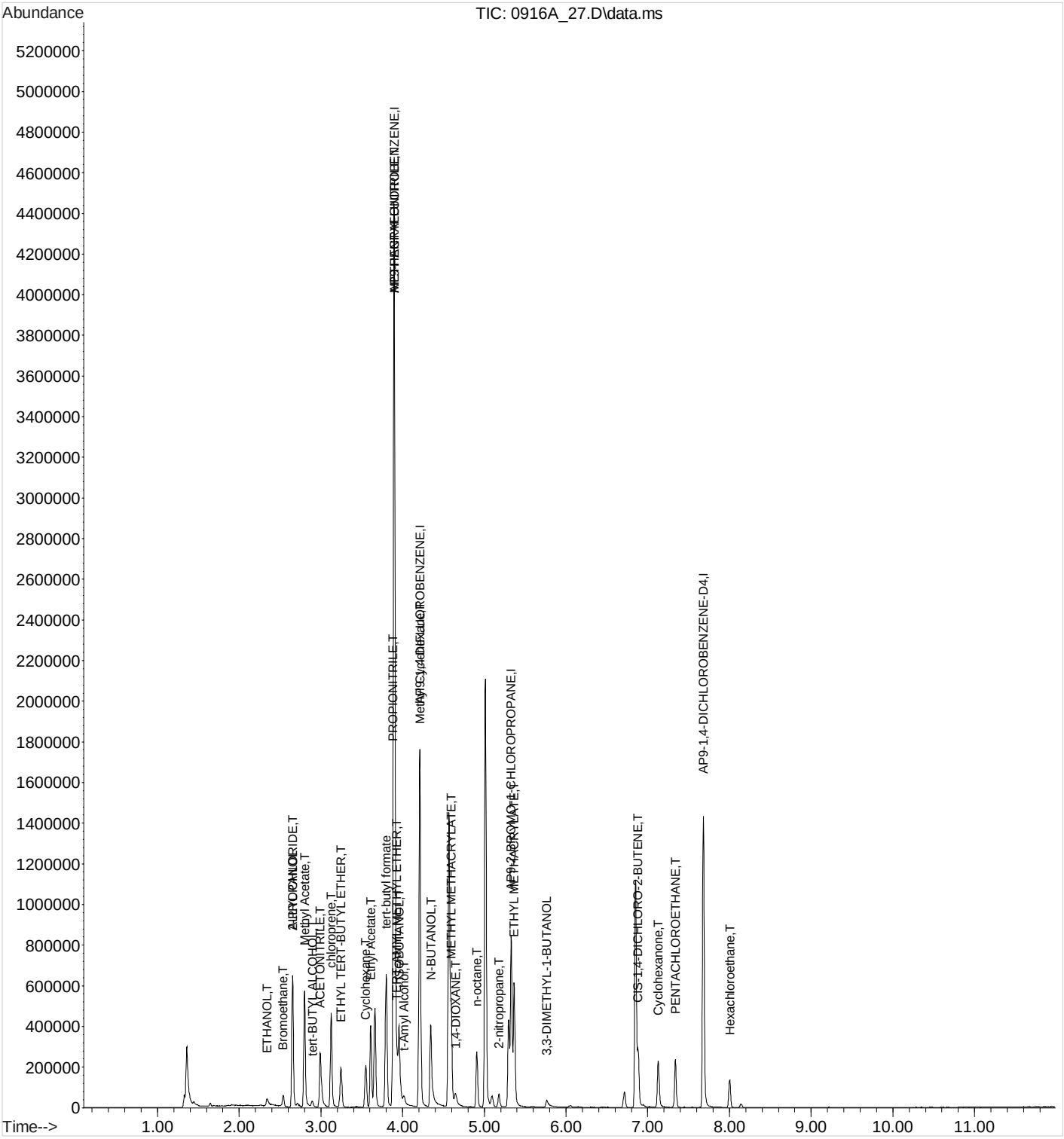
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	48796	570.8102434 ppb		99
98)	Bromoethane	2.538	108	29668	5.2184280 ppb		92
99)	2-PROPANOL	2.653	45	12478	22.1501816 ppb	#	81
100)	Methyl Acetate	2.798	43	549928	99.9823692 ppb	#	99
101)	ACETONITRILE	2.991	41	270923	248.8750077 ppb		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.	

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)
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

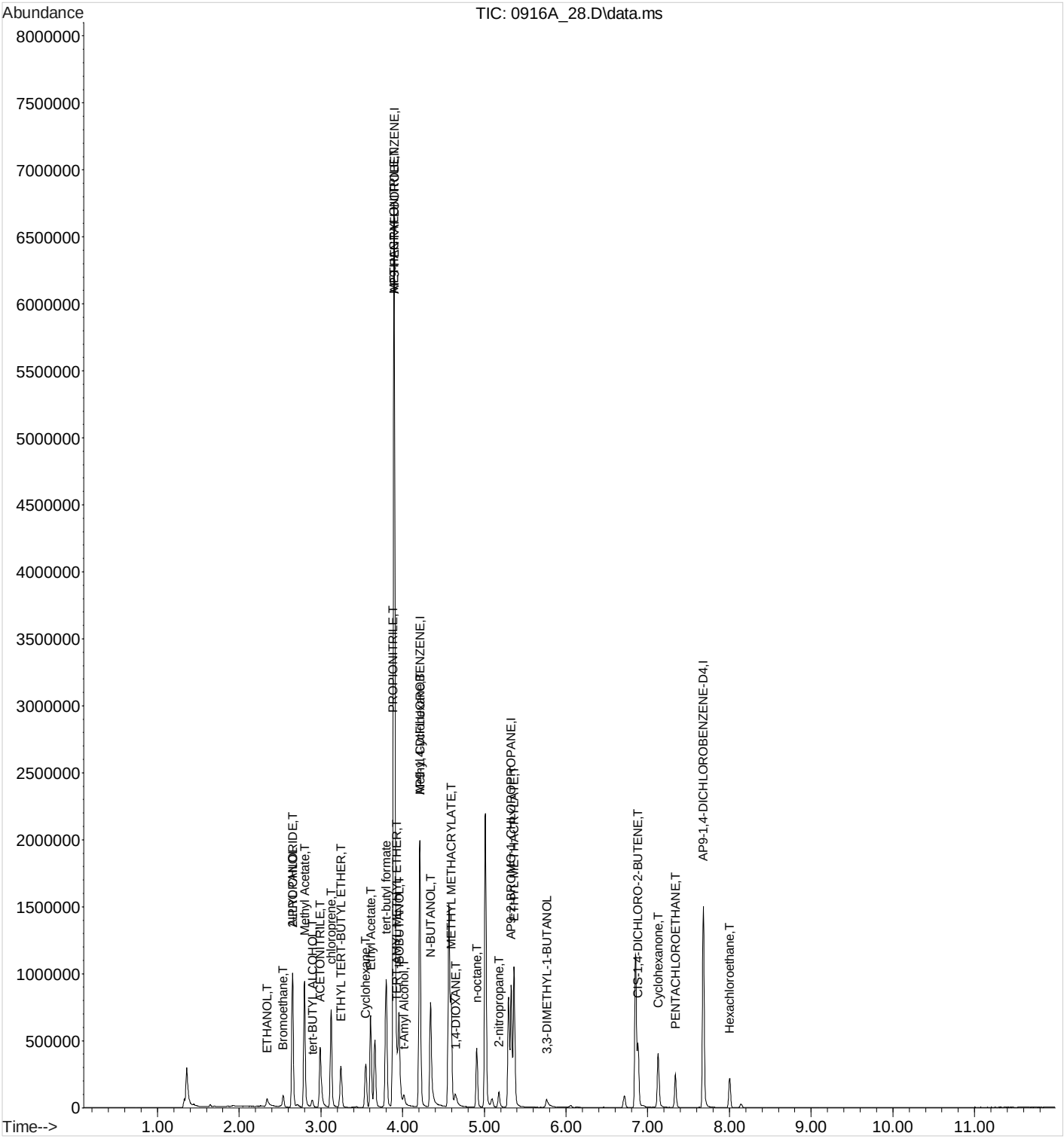
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	74413	831.3914805 ppb	#	99
98)	Bromoethane	2.538	108	47853	8.0391442 ppb		100
99)	2-PROPANOL	2.653	45	20911	35.4532728 ppb	#	88
100)	Methyl Acetate	2.798	43	890558	154.6425567 ppb	#	100
101)	ACETONITRILE	2.991	41	444309	389.8250486 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.	

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)
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

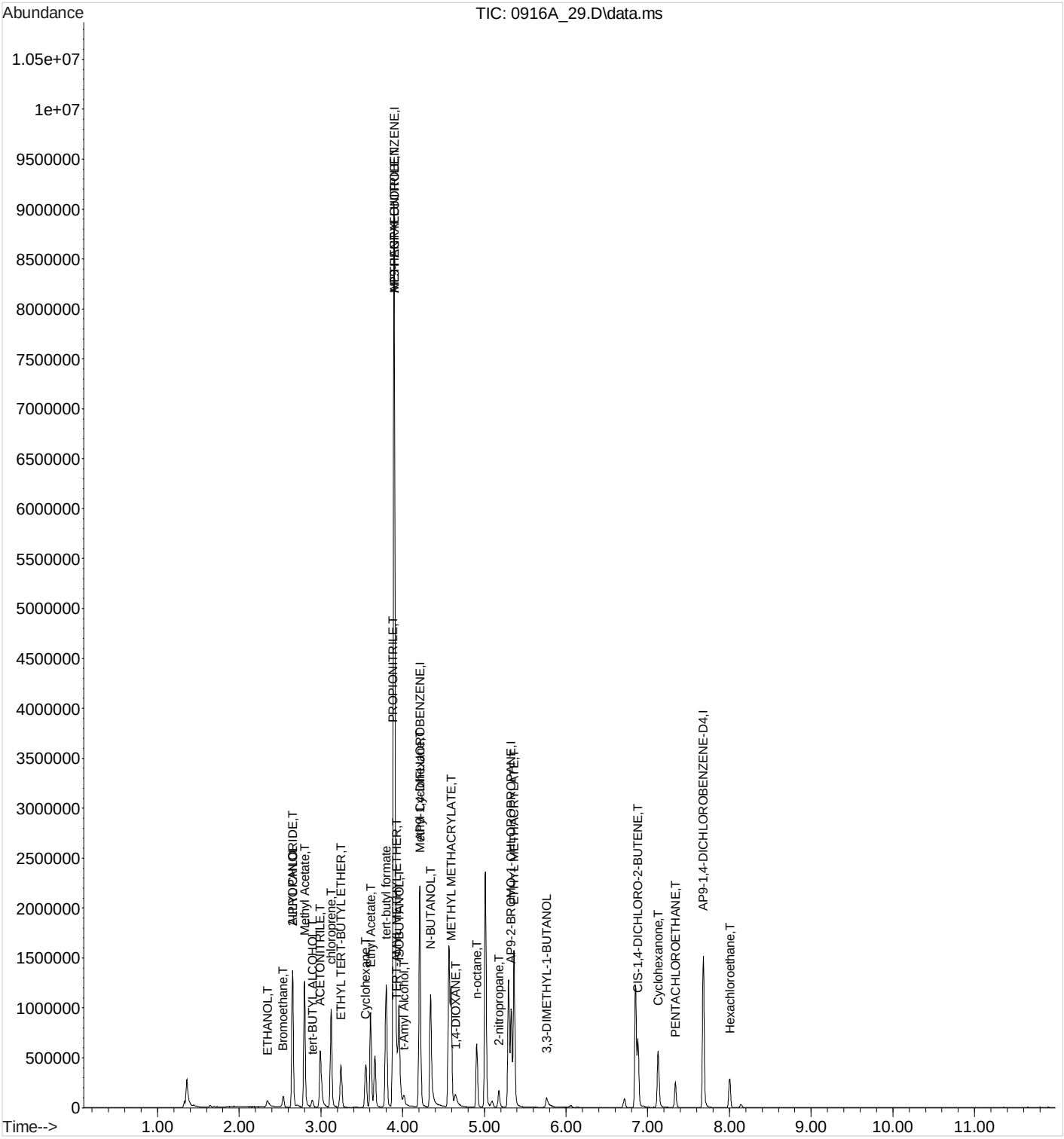
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.345	45	92943	1000.0000000	ppb		100
98)	Bromoethane	2.538	108	61812	10.0000000	ppb		100
99)	2-PROPANOL	2.653	45	30624	50.0000000	ppb		100
100)	Methyl Acetate	2.798	43	1196015	200.0000000	ppb	#	100
101)	ACETONITRILE	2.991	41	591778	500.0000000	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

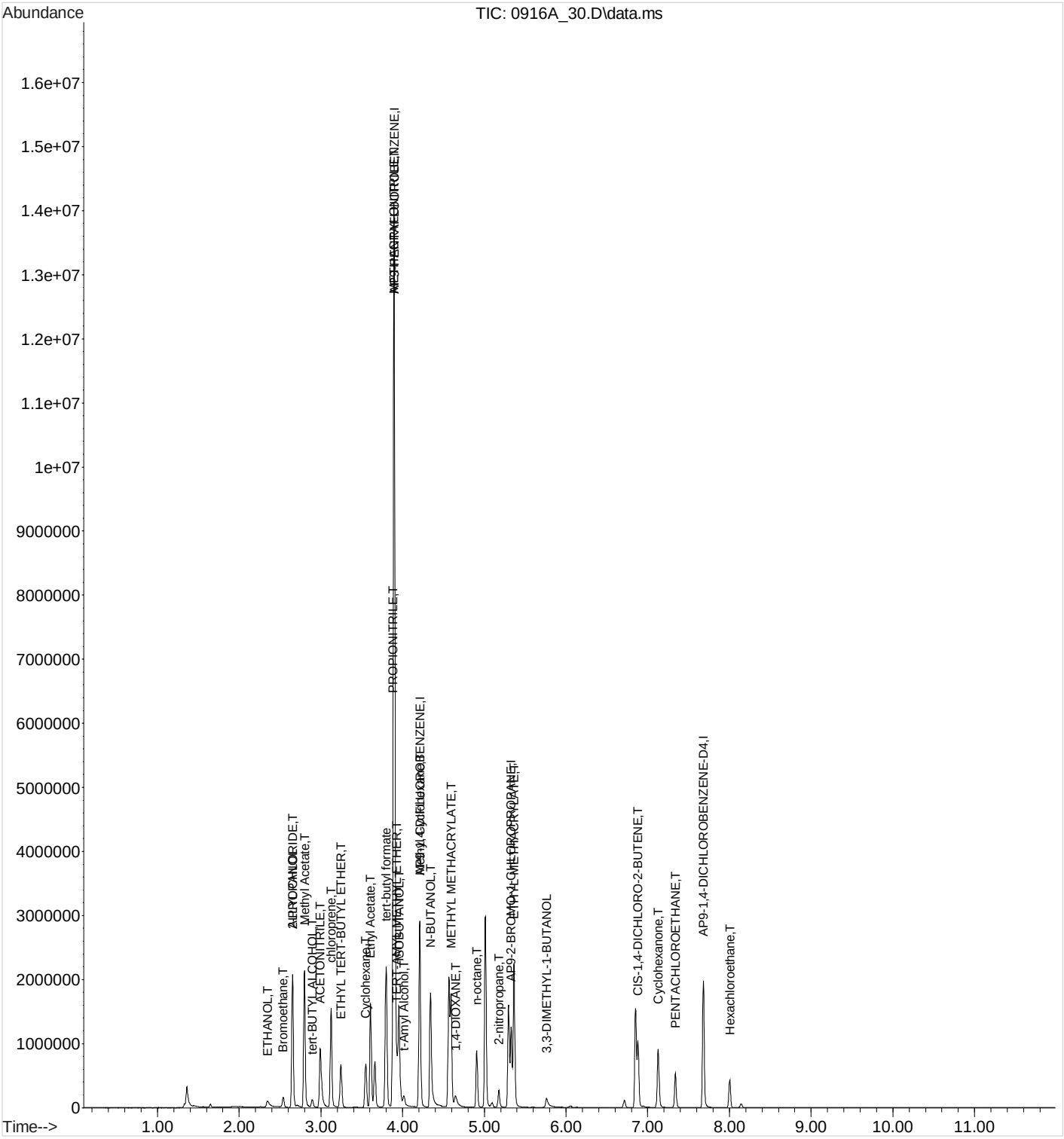
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.345	45	156616	1293.7687100	ppb	#	98
98)	Bromoethane	2.538	108	92643	11.5073949	ppb		97
99)	2-PROPANOL	2.653	45	43559	54.6038407	ppb	#	92
100)	Methyl Acetate	2.798	43	2009397	257.9861080	ppb	#	99
101)	ACETONITRILE	2.991	41	983680	638.1198173	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.	

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)
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

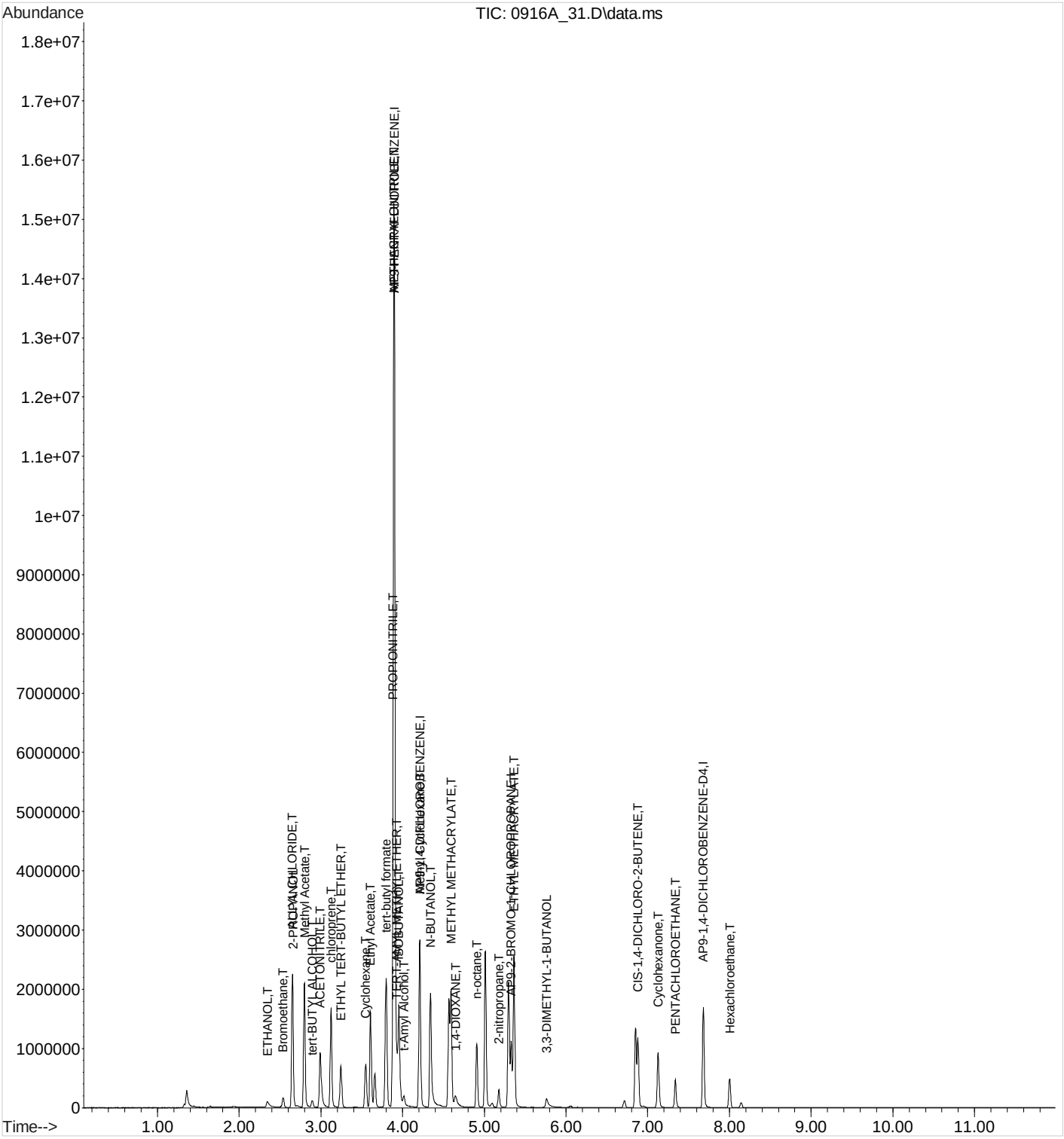
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.345	45	146752	1349.6598496 ppb	#	97
98)	Bromoethane	2.538	108	96264	13.3121467 ppb		95
99)	2-PROPANOL	2.657	45	43682	60.9631766 ppb		97
100)	Methyl Acetate	2.798	43	1980490	283.0890098 ppb	#	100
101)	ACETONITRILE	2.991	41	967276	698.5839235 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

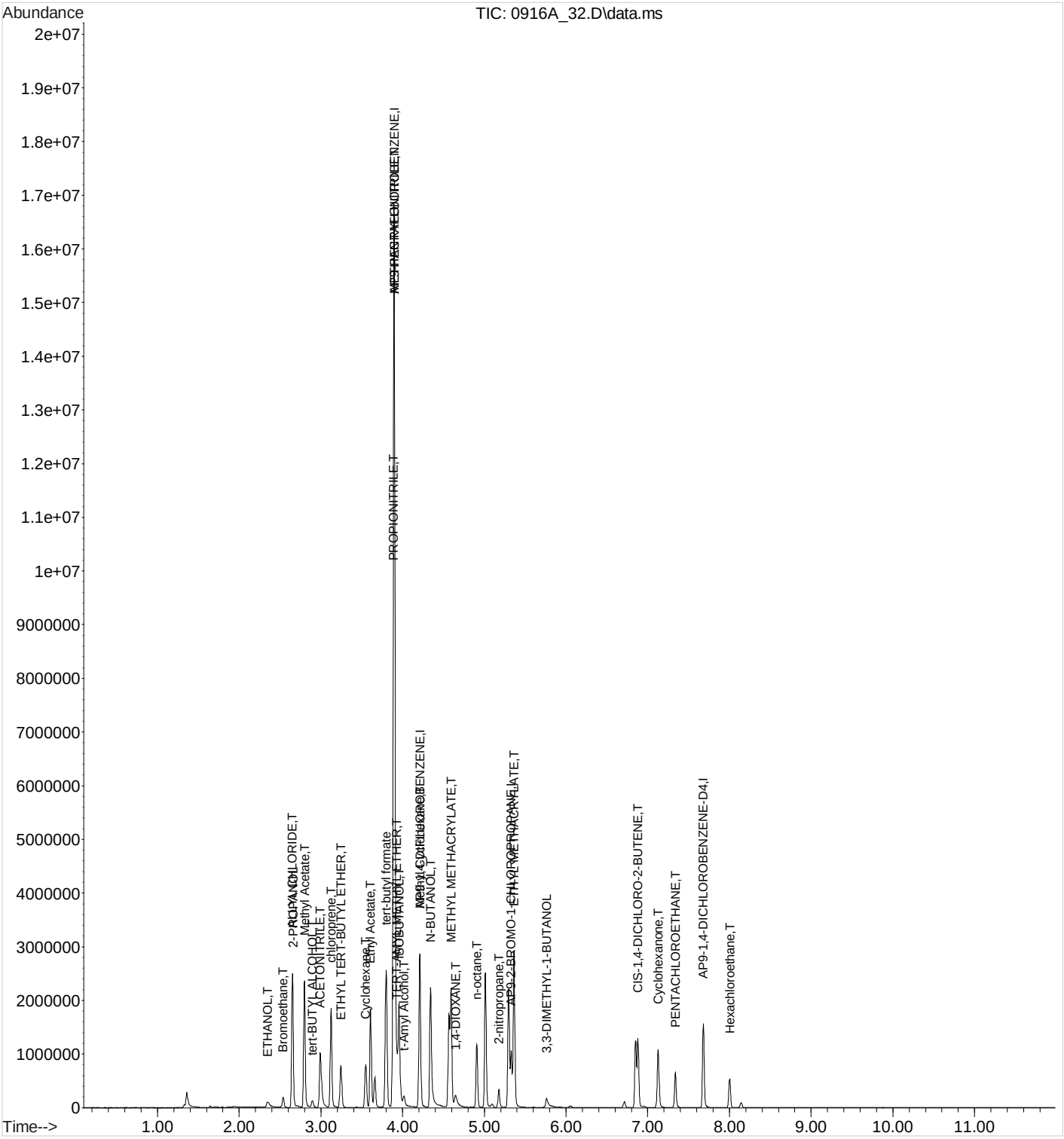
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.345	45	165762	1573.8755862 ppb	#	99
98)	Bromoethane	2.538	108	110743	15.8104997 ppb		99
99)	2-PROPANOL	2.657	45	53120	76.5364407 ppb		94
100)	Methyl Acetate	2.798	43	2217581	327.2464683 ppb	#	100
101)	ACETONITRILE	2.991	41	1101582	821.3535273 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

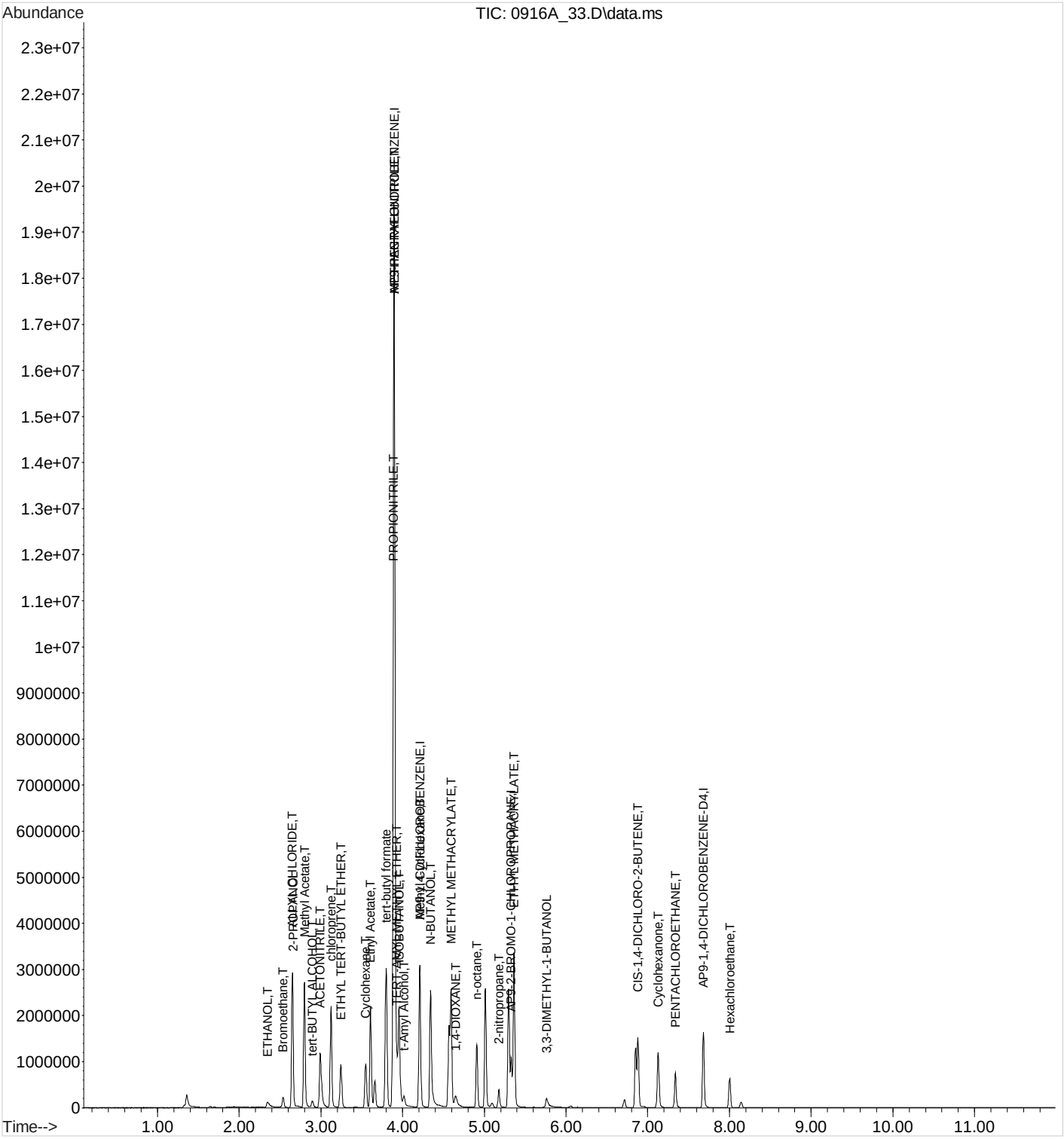
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.348	45	185231	1673.6092826	ppb	#	96
98)	Bromoethane	2.538	108	131830	17.9101221	ppb		98
99)	2-PROPANOL	2.657	45	60824	83.3950276	ppb	#	91
100)	Methyl Acetate	2.798	43	2568739	360.7201806	ppb	#	99
101)	ACETONITRILE	2.991	41	1252470	888.6599581	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



Instrument: VOCMS20
Method: V820J21N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
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1021_04a.D	.5	10/21/2014 10:08:00 PM
1021_05a.D	1	10/21/2014 10:27:00 PM
1021_06a.D	2	10/21/2014 10:45:00 PM
1021_07a.D	5.0	10/21/2014 11:04:00 PM
1021_08a.D	10	10/21/2014 11:22:00 PM
1021_09a.D	25	10/21/2014 11:40:00 PM
1021_10a.D	40	10/21/2014 11:58:00 PM
1021_11a.D	75	10/22/2014 12:17:00 AM
1021_12a.D	100	10/22/2014 12:35:00 AM
1021_13a.D	200	10/22/2014 12:53:00 AM
1021_17a.D	1A	10/22/2014 2:06:00 AM
1021_18a.D	2.5A	10/22/2014 2:24:00 AM
1021_19a.D	5A	10/22/2014 2:42:00 AM
1021_20a.D	7.5A	10/22/2014 3:00:00 AM
1021_21a.D	10A	10/22/2014 3:19:00 AM
1021_22a.D	12A	10/22/2014 3:37:00 AM
1021_23a.D	15A	10/22/2014 3:55:00 AM
1021_24a.D	17A	10/22/2014 4:14:00 AM
1021_25a.D	20A	10/22/2014 4:32:00 AM

Mint Miner 2.6.4 Directory Scan: z:\102114a

22 Oct 2014 15:32

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102114a\1021_01a.D					
Original Path: 1021_01a.D					
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Scan File Path: z:\102114a\1021_02a.D					
Original Path: z:\102114a\1021_02a.D					
0	No Audit				
Scan File Path: z:\102114a\1021_03a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_03a.D					
20	Scanned	M(1), D(14), MZ(5)	644	VOCMS20	STD VMS .25 ppb 14J20240 (water IS/SURR14I
Scan File Path: z:\102114a\1021_04a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_04a.D					
21	Scanned	D(16), MZ(5)	644	VOCMS20	STD VMS .5 ppb 14J20240 (water IS/SURR14I2
Scan File Path: z:\102114a\1021_05a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_05a.D					
22	Scanned	D(17), MZ(5)	644	VOCMS20	STD VMS 1 ppb 14J20240 (water IS/SURR14I25
Scan File Path: z:\102114a\1021_05B.D					
Original Path: C:\MSDchem\1\data\102114a\1021_05a.D					
22	Scanned	D(17), MZ(5)	644	VOCMS20	STD VMS 1 ppb 14J20240 (water IS/SURR14I25
Scan File Path: z:\102114a\1021_06a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_06a.D					
25	Scanned	D(20), MZ(5)	644	VOCMS20	STD VMS 2 ppb 14J20240 (water IS/SURR14I25
Scan File Path: z:\102114a\1021_06B.D					
Original Path: C:\MSDchem\1\data\102114a\1021_06a.D					
25	Scanned	D(20), MZ(5)	644	VOCMS20	STD VMS 2 ppb 14J20240 (water IS/SURR14I25
Scan File Path: z:\102114a\1021_07a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_07a.D					
30	Scanned	D(25), MZ(5)	644	VOCMS20	STD VMS 5 ppb 14J20240 (water IS/SURR14I25
Scan File Path: z:\102114a\1021_08a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_08a.D					
30	Scanned	D(25), MZ(5)	644	VOCMS20	STD VMS 10 ppb 14J20240 (water IS/SURR14I2
Scan File Path: z:\102114a\1021_09a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_09a.D\data.ms					
28	Scanned	D(28)	644	VOCMS20	MSTD VMS 25 ppb 14J20240 (water IS/SURR14

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102114a\1021_10a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_10a.D					
33	Scanned	D(28), MZ(5)	644	VOCMS20	STD VMS 40 ppb 14J20240 (water IS/SURR14I
Scan File Path: z:\102114a\1021_11a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_11a.D					
35	Scanned	D(30), MZ(5)	644	VOCMS20	STD VMS 75 ppb 14J20240 (water IS/SURR14I
Scan File Path: z:\102114a\1021_12a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_12a.D					
32	Scanned	D(31), ENR(1)	644	VOCMS20	STD VMS 100 ppb 14J20240 (water IS/SURR14
Scan File Path: z:\102114a\1021_13a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_13a.D					
33	Scanned	D(32), ENR(1)	644	VOCMS20	STD VMS 200 ppb 14J20240 (water IS/SURR14
Scan File Path: z:\102114a\1021_14a.D					
Original Path: z:\102114a\1021_14a.D					
0	No Audit				
Scan File Path: z:\102114a\1021_15a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_15a.D\data.ms					
2	Scanned	QM(1)	644	VOCMS20	SSCV VMS 25 ppb 14J20241 (water IS/SURR14
Scan File Path: z:\102114a\1021_16a.D					
Original Path: z:\102114a\1021_16a.D					
0	No Audit				
Scan File Path: z:\102114a\1021_17a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_17a.D					
79	Scanned	D(52), DK(6), DC(3), DS(2), DP(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 1 ppb 14I02840 (water IS/SURR14I25
Scan File Path: z:\102114a\1021_17B.D					
Original Path: C:\MSDchem\1\data\102114a\1021_17a.D					
79	Scanned	D(52), DK(6), DC(3), DS(2), DP(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 1 ppb 14I02840 (water IS/SURR14I25
Scan File Path: z:\102114a\1021_18a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_18a.D					
83	Scanned	D(54), DK(6), DC(3), DP(4), DS(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 2.5 ppb 14I02840 (water IS/SURR14I
Scan File Path: z:\102114a\1021_19a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_19a.D					
89	Scanned	D(59), DK(6), DC(4), DP(4), DS(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 5 ppb 14I02840 (water IS/SURR14I25

Mint Miner 2.6.4 Directory Scan: z:\102114a

22 Oct 2014 15:32

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102114a\1021_20a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_20a.D					
89	Scanned	D(59), DK(6), DC(4), DP(4), DS(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 7.5 ppb 14I02840 (water IS/SURR14I
Scan File Path: z:\102114a\1021_21a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_21a.D\data.ms					
86	Scanned	D(60), DK(6), DC(4), DP(4), DS(2), DB(2)	644	VOCMS20	MSTD VMS 10 ppb 14I02840 (water IS/SURR1
Scan File Path: z:\102114a\1021_22a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_22a.D					
88	Scanned	D(58), DK(6), DC(4), DP(4), DS(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 12.5 ppb 14I02840 (water IS/SURR14
Scan File Path: z:\102114a\1021_23a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_23a.D					
89	Scanned	D(59), DK(6), DC(4), DP(4), DS(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 15 ppb 14I02840 (water IS/SURR14I
Scan File Path: z:\102114a\1021_24a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_24a.D					
84	Scanned	D(57), DC(4), DK(4), DP(3), DS(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 17.5 ppb 14I02840 (water IS/SURR14
Scan File Path: z:\102114a\1021_25a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_25a.D					
82	Scanned	D(55), DC(4), DK(4), DP(3), DS(2), DB(2), MZ(4)	644	VOCMS20	STD VMS 20 ppb 14I02840 (water IS/SURR14I
Scan File Path: z:\102114a\1021_26a.D					
Original Path: z:\102114a\1021_26a.D					
0	No Audit				
Scan File Path: z:\102114a\1021_27a.D					
Original Path: C:\MSDchem\1\data\102114a\1021_27a.D\data.ms					
0	Scanned		644	VOCMS20	SSCV VMS 10a ppb 14I02844 (water IS/SURR1

D	=	Deletion of any analyte	DB	=	Deletion of a common contaminant
DC	=	Deletion of a CCC	DK	=	Deletion of a spike compound
DP	=	Deletion of an SPCC	DS	=	Deletion of a surrogate
ENR	=	Quant report set to not reviewed (Disables MZ code)	M	=	Manual integration (non-specific)
MZ	=	Manual integrated but indicator missing from either the quant report or audit file	QM	=	Processed >3 times using the same method

Level	Status	Code	Operator	Instrument	Sample ID

ScanSummary.rpt

Total Files Scanned	30	Beginning Analyzed Date	10/21/2014 9:14:00PM
Methods	0	Ending Analyzed Date	10/22/2014 5:09:00AM
Samples	29	Analyzed Range	7 hours, 55 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0

Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH

Released By : Amy Green
Date Released : 10/22/2014 3:25:44 PM

Run ID : 102114a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1021_01a	INSTBLK	V820J21N						1	1	10/21/14 2114	"water IS/SURR14I25028 "
2	1021_01a	INSTBLK VMS								1	10/21/14 2114	
3	1021_03a	STD VMS .25 PPB 14J20240	V820J21N						1	1	10/21/14 2150	"water IS/SURR14I25028 "
4	1021_04a	STD VMS .5 PPB 14J20240	V820J21N						1	1	10/21/14 2208	"water IS/SURR14I25028 "
5	1021_05a	STD VMS 1 PPB 14J20240	V820J21N						1	1	10/21/14 2227	"water IS/SURR14I25028 "
6	1021_05B	RL VMS 1 PPB 14J20240	V820J21N						1	1	10/21/14 2227	"water IS/SURR14I25028 "
7	1021_06a	STD VMS 2 PPB 14J20240	V820J21N						1	1	10/21/14 2245	"water IS/SURR14I25028 "
8	1021_06B	RL VMS 2 PPB 14J20240	V820J21N						1	1	10/21/14 2245	"water IS/SURR14I25028 "
9	1021_07a	STD VMS 5 PPB 14J20240	V820J21N						1	1	10/21/14 2304	"water IS/SURR14I25028 "
10	1021_08a	STD VMS 10 PPB 14J20240	V820J21N						1	1	10/21/14 2322	"water IS/SURR14I25028 "
11	1021_09a	MSTD VMS 25 PPB 14J20240	V820J21N						1	1	10/21/14 2340	"water IS/SURR14I25028 "
12	1021_10a	STD VMS 40 PPB 14J20240	V820J21N						1	1	10/21/14 2358	"water IS/SURR14I25028 "
13	1021_11a	STD VMS 75 PPB 14J20240	V820J21N						1	1	10/22/14 0017	"water IS/SURR14I25028 "
14	1021_12a	STD VMS 100 PPB 14J20240	V820J21N						1	1	10/22/14 0035	"water IS/SURR14I25028 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

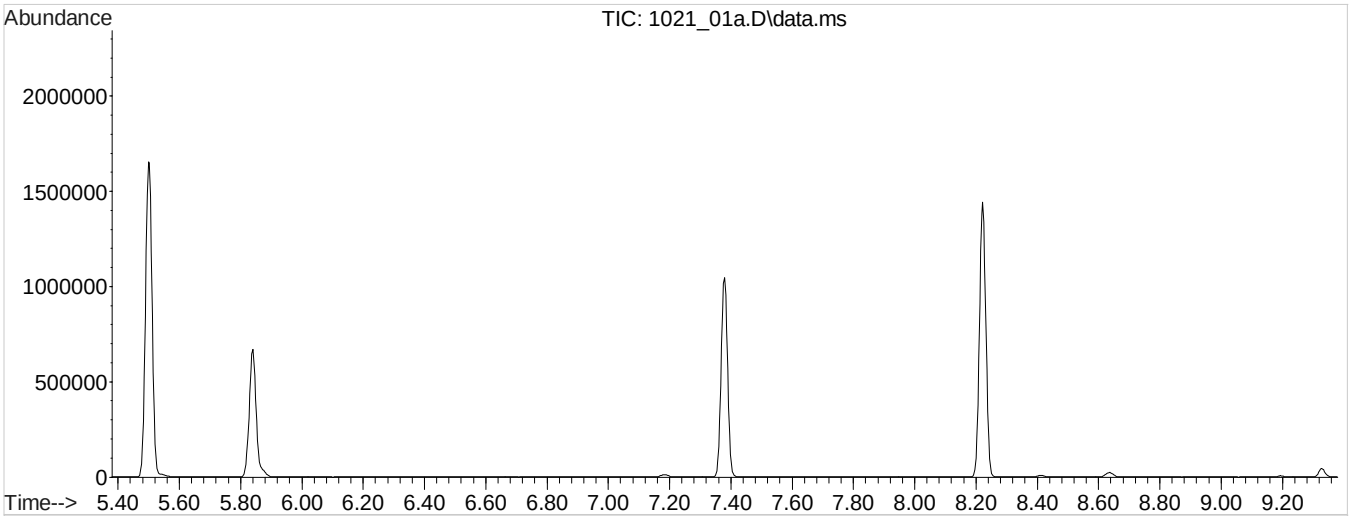
Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Amy Green
Date Released : 10/22/2014 3:25:44 PM
Run ID : 102114a
Signature : _____

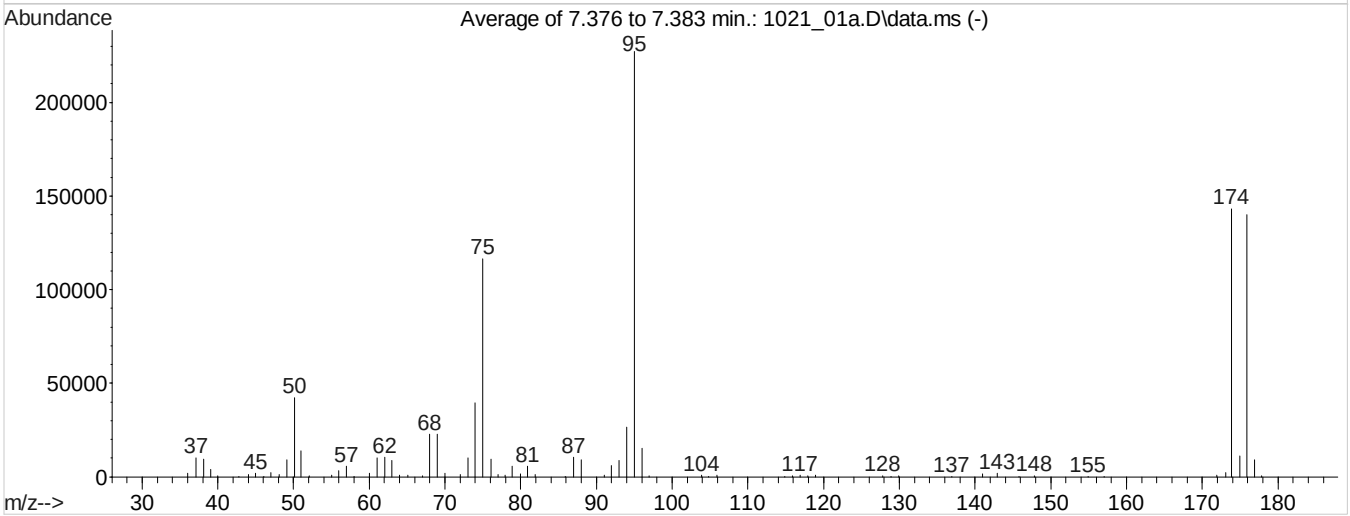
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1021_13a	STD VMS 200 PPB 14J20240	V820J21N						1	1	10/22/14 0053	"water IS/SURR14I25028 "
16	1021_15a	SSCV VMS 25 PPB 14J20241	V820J21N						1	1	10/22/14 0129	"water IS/SURR14I25028 "
17	1021_17a	STD VMS 1 PPB 14I02840	V820J21N						1	1	10/22/14 0206	"water IS/SURR14I25028 "
18	1021_17B	RL VMS 1A PPB 14I02840	V820J21N						1	1	10/22/14 0206	"water IS/SURR14I25028 "
19	1021_18a	STD VMS 2.5 PPB 14I02840	V820J21N						1	1	10/22/14 0224	"water IS/SURR14I25028 "
20	1021_19a	STD VMS 5 PPB 14I02840	V820J21N						1	1	10/22/14 0242	"water IS/SURR14I25028 "
21	1021_20a	STD VMS 7.5 PPB 14I02840	V820J21N						1	1	10/22/14 0300	"water IS/SURR14I25028 "
22	1021_21a	MSTD VMS 10 PPB 14I02840	V820J21N						1	1	10/22/14 0319	"water IS/SURR14I25028 "
23	1021_22a	STD VMS 12.5 PPB 14I02840	V820J21N						1	1	10/22/14 0337	"water IS/SURR14I25028 "
24	1021_23a	STD VMS 15 PPB 14I02840	V820J21N						1	1	10/22/14 0355	"water IS/SURR14I25028 "
25	1021_24a	STD VMS 17.5 PPB 14I02840	V820J21N						1	1	10/22/14 0414	"water IS/SURR14I25028 "
26	1021_25a	STD VMS 20 PPB 14I02840	V820J21N						1	1	10/22/14 0432	"water IS/SURR14I25028 "
27	1021_27a	SSCV VMS 10A PPB 14I02844	V820J21N						1	1	10/22/14 0509	"water IS/SURR14I25028 "

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820J21N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Wed Oct 22 15:05:08 2014





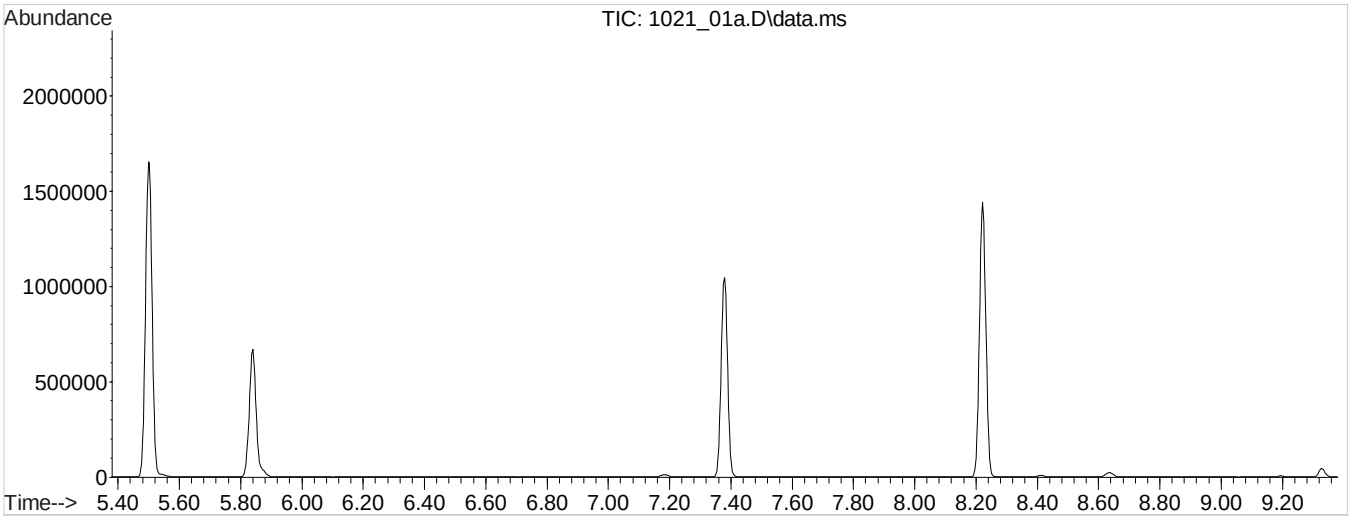
AutoFind: Scans 2266, 2267, 2268; Background Corrected with Scan 2253

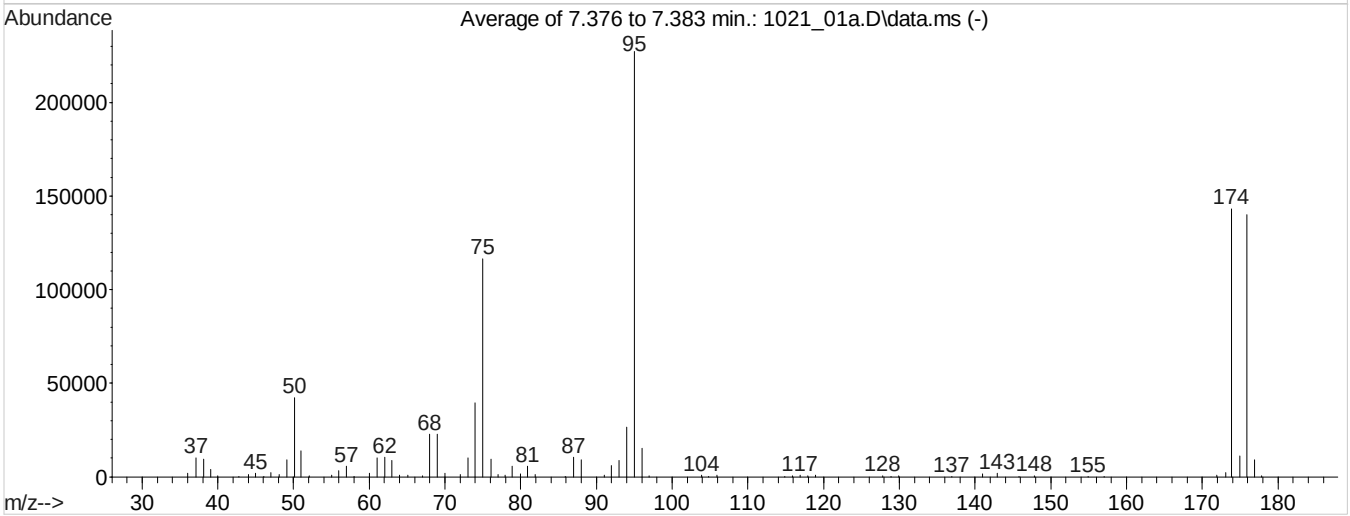
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	42083	PASS
75	95	30	60	51.2	116451	PASS
95	95	100	100	100.0	227328	PASS
96	95	5	9	6.7	15248	PASS
173	174	0.00	2	1.7	2388	PASS
174	95	50	150	62.9	142976	PASS
175	174	5	9	7.9	11237	PASS
176	174	95	101	98.0	140117	PASS
177	176	5	9	6.5	9073	PASS

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820J21N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Wed Oct 22 15:05:08 2014





AutoFind: Scans 2266, 2267, 2268; Background Corrected with Scan 2253

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	42083	PASS
75	95	30	60	51.2	116451	PASS
95	95	100	100	100.0	227328	PASS
96	95	5	9	6.7	15248	PASS
173	174	0.00	2	1.7	2388	PASS
174	95	50	150	62.9	142976	PASS
175	174	5	9	7.9	11237	PASS
176	174	95	101	98.0	140117	PASS
177	176	5	9	6.5	9073	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SM 20th	Released On	: 10/22/2014 3:25:44 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.095	0.087	0.075	0.082	0.082	0.076	0.077	0.083										0.082293	8.18	0.082	1
DICHLORODIFLUOROMETHANE	0.453	0.624	0.632	0.659	0.668	0.606	0.654	0.669	0.632	0.634	0.673										0.627682	9.84	0.098	1
CHLOROMETHANE	0.659	0.881	0.846	0.844	0.863	0.797	0.897	0.92	0.866	0.907	0.952										0.857377	9.1	0.091	1
VINYL CHLORIDE	0.815	0.899	0.909	0.909	0.93	0.885	0.975	0.977	0.911	0.944	0.986										0.921627	5.35	0.053	1
1,3-BUTADIENE	0.625	0.584	0.516	0.539	0.534	0.533	0.571	0.575	0.543	0.574	0.605										0.5635	5.97	0.06	1
BROMOMETHANE			0.522	0.423	0.424	0.38	0.339	0.311													0.399915	18.74	0.996	0
CHLOROETHANE		0.187	0.186	0.196	0.183	0.185	0.179	0.181	0.161	0.159	0.124										0.1741	12.13	0.121	1
TRICHLOROFLUOROMETHANE	0.66	0.809	0.628	0.741	0.735	0.7	0.75	0.75	0.685	0.707	0.709										0.7158	6.88	0.069	1
DICHLOROFLUOROMETHANE	1.065	1.227	1.209	1.27	1.205	1.193	1.257	1.273	1.19	1.23	1.249										1.215149	4.76	0.048	1
ETHYL ETHER		0.973	0.817	0.77	0.695	0.649	0.706	0.694	0.652	0.663	0.683										0.730327	13.74	0.137	1
ACROLEIN	0.06	0.082	0.08	0.089	0.092	0.085	0.1	0.101	0.095	0.099	0.107										0.090219	14.55	0.145	1
1,1-DICHLOROETHENE	0.966	0.987	1.01	1.016	1.063	0.989	1.099	1.092	1.045	1.05	1.089										1.036898	4.48	0.045	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.375	0.537	0.466	0.525	0.534	0.484	0.526	0.529	0.503	0.507	0.509										0.49951	9.34	0.093	1
ACETONE				0.237	0.193	0.161	0.171	0.171	0.161	0.163	0.176										0.179126	14.33	0.143	1
IODOMETHANE	1.006	1.016	1.04	1.042	1.045	0.987	1.08	1.08	0.988	1.001	0.97										1.023136	3.62	0.036	1
CARBON DISULFIDE	2.492	2.464	2.434	2.424	2.327	2.164	2.391	2.433	2.284	2.332	2.343										2.371842	3.98	0.04	1
METHYLENE CHLORIDE				1.139	0.897	0.827	0.853	0.863	0.799	0.827	0.872										0.884739	12.12	0.121	1
ACRYLONITRILE	0.138	0.179	0.193	0.189	0.197	0.195	0.226	0.227	0.216	0.223	0.245										0.202509	14.44	0.144	1
n-Hexane		0.967	0.814	0.71	0.646	0.611	0.689	0.686	0.653	0.677	0.71										0.716379	14.42	0.144	1
TRANS-1,2-DICHLOROETHENE	0.529	0.732	0.691	0.718	0.723	0.692	0.777	0.781	0.737	0.763	0.797										0.721717	10.09	0.101	1
METHYL TERT-BUTYL ETHER	1.636	1.811	1.946	1.888	1.977	1.923	2.135	2.179	2.038	2.081	2.281										1.990497	9.08	0.091	1

PDF Generated On: 10/22/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SM 20th	Released On	: 10/22/2014 3:25:44 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.031	1.392	1.354	1.352	1.351	1.255	1.404	1.42	1.354	1.402	1.5										1.346791	8.96	0.09	1
VINYL ACETATE	0.766	0.821	0.889	0.826	0.927	0.89	1.048	1.076	1.06	1.07	1.11										0.952949	12.91	0.129	1
DI-ISOPROPYL ETHER	1.835	2.174	2.152	2.214	2.257	2.175	2.528	2.533	2.462	2.577	2.809										2.337983	11.57	0.116	1
2,2-Dichloropropane	0.776	0.758	0.805	0.817	0.801	0.768	0.816	0.845	0.742	0.808	0.821										0.796209	3.9	0.039	1
CIS-1,2-DICHLOROETHENE	0.578	0.856	0.743	0.829	0.827	0.789	0.861	0.879	0.824	0.855	0.896										0.812391	10.91	0.109	1
2-BUTANONE (MEK)	0.066	0.062	0.065	0.074	0.074	0.073	0.083	0.083	0.078	0.081	0.086										0.074869	10.79	0.108	1
BROMOCHLOROMETHANE	0.287	0.485	0.42	0.43	0.471	0.435	0.479	0.471	0.438	0.456	0.466										0.439849	12.5	0.125	1
TETRAHYDROFURAN			0.192	0.16	0.184	0.162	0.175	0.177	0.169	0.171	0.187										0.175098	6.22	0.062	1
CHLOROFORM	1.114	1.257	1.264	1.298	1.326	1.257	1.371	1.374	1.31	1.343	1.433										1.304353	6.43	0.064	1
DIBROMOFLUOROMETHANE	0.545	0.541	0.55	0.534	0.536	0.548	0.565	0.567	0.567	0.58	0.597										0.557416	3.56	0.036	1
1,1,1-TRICHLOROETHANE	0.851	0.884	0.917	0.941	0.95	0.932	1.003	1.019	0.956	1.02	1.077										0.959028	6.88	0.069	1
CARBON TETRACHLORIDE	0.635	0.681	0.813	0.81	0.822	0.728	0.834	0.849	0.806	0.817	0.859										0.786846	9.23	0.092	1
1,1-Dichloropropene	0.778	0.916	0.981	0.944	0.978	0.933	1.066	1.048	1.015	1.051	1.11										0.983525	9.29	0.093	1
2,2,4-TRIMETHYLPENTANE	2.579	2.884	2.616	2.879	2.75	2.591	2.855	3.037	2.837	2.959	3.163										2.831808	6.6	0.066	1
HEPTANE	0.846	0.857	0.999	1.043	1.037	0.997	1.127	1.161	1.12	1.194	1.24										1.056536	12.12	0.121	1
BENZENE	2.821	3.253	3.276	3.091	3.145	3.018	3.317	3.283	3.168	3.304	3.479										3.195907	5.51	0.055	1
1,2-DICHLOROETHANE	0.888	0.919	0.992	1.053	1.019	0.963	1.068	1.046	0.993	1.01	1.074										1.002257	6	0.06	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.522	0.502	0.407	0.406	0.399	0.364	0.384	0.373	0.356	0.361	0.362										0.403159	14.09	0.141	1
1,2-DICHLOROPROPANE	0.268	0.261	0.281	0.279	0.284	0.27	0.299	0.3	0.293	0.303	0.307										0.285982	5.46	0.055	1
DIBROMOMETHANE	0.164	0.216	0.233	0.208	0.23	0.206	0.221	0.219	0.208	0.21	0.212										0.211538	8.52	0.085	1
BROMODICHLOROMETHANE	0.513	0.546	0.517	0.541	0.53	0.499	0.547	0.548	0.534	0.543	0.557										0.534039	3.32	0.033	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SM 20th	Released On	: 10/22/2014 3:25:44 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.551	0.558	0.551	0.549	0.547	0.542	0.534	0.533	0.524	0.526	0.521										0.539563	2.33	0.023	1
-CHLOROETHYL VINYL ETHER				0.133	0.147	0.152	0.184	0.187	0.186	0.192	0.21										0.17383	15.32	0.153	1
CIS-1,3-DICHLOROPROPENE	0.426	0.581	0.61	0.57	0.645	0.62	0.679	0.685	0.681	0.694	0.712										0.627568	13.05	0.13	1
4-METHYL-2-PENTANONE (MIBK)	0.089	0.092	0.103	0.099	0.115	0.107	0.127	0.128	0.125	0.125	0.134										0.112945	13.94	0.139	1
TOLUENE-D8	1.27	1.282	1.277	1.268	1.28	1.273	1.269	1.265	1.273	1.272	1.259										1.271646	0.53	0.005	1
TOLUENE	1.501	1.805	1.823	1.85	1.815	1.706	1.802	1.778	1.729	1.777	1.781										1.760761	5.41	0.054	1
TRANS-1,3-DICHLOROPROPENE		0.108	0.092	0.129	0.134	0.129	0.139	0.144	0.137	0.143	0.143										0.129701	13.14	0.131	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.542	1.934	1.992	2.162	2.041	1.846	2.034	1.939	1.897	1.857	1.854										1.918122	8.23	0.082	1
TETRACHLOROETHENE	1.374	1.648	1.52	1.76	1.559	1.444	1.536	1.482	1.457	1.41	1.33										1.501758	8.23	0.082	1
1,3-Dichloropropane	3.209	3.71	4.029	3.826	3.633	3.509	3.772	3.603	3.599	3.568	3.53										3.635215	5.71	0.057	1
2-HEXANONE		0.562	0.569	0.551	0.635	0.619	0.752	0.743	0.737	0.713	0.746										0.662662	12.66	0.127	1
CHLORODIBROMOMETHANE	1.396	1.737	1.823	1.884	1.879	1.833	2.028	1.992	1.969	1.939	1.927										1.855142	9.36	0.094	1
1,2-DIBROMOETHANE	1.404	1.697	1.844	1.971	1.926	1.745	1.946	1.866	1.845	1.803	1.786										1.802877	8.69	0.087	1
CHLOROBENZENE	6.136	6.768	6.675	7.357	6.752	6.521	6.982	6.702	6.564	6.425	6.097										6.634518	5.39	0.054	1
1,1,1,2-TETRACHLOROETHANE	2.058	1.973	1.889	2.035	1.974	1.933	2.101	2.056	2.023	1.985	1.929										1.996037	3.24	0.032	1
ETHYLBENZENE	3.053	3.415	3.487	3.765	3.632	3.619	3.867	3.728	3.721	3.663	3.497										3.586153	6.17	0.062	1
M&P-XYLENE	3.879	4.055	4.191	4.715	4.65	4.494	4.832	4.683	4.578	4.498	4.313										4.44428	6.74	0.067	1
O-XYLENE	3.31	4.084	4.157	4.503	4.413	4.246	4.722	4.62	4.53	4.427	4.355										4.305894	8.86	0.089	1
STYRENE	3.486	3.938	4.223	4.587	5.403	6.168	7.041	7.33	7.399	7.206	7.232										5.819279	26.36	0.999	0
Bromoform		0.786	0.932	1.046	1.039	1.011	1.094	1.062	1.05	1.025	1.014										1.005847	8.75	0.088	1
Isopropylbenzene	7.059999	10.38	10.26	10.96	11.1	10.76	11.89	11.74	11.55	11.32	11.1										10.7393	12.32	0.123	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SM 20th	Released On	: 10/22/2014 3:25:44 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.92	2.975	2.894	3.045	2.939	3.007	2.967	2.984	3.058	2.936	2.886										2.964638	1.91	0.019	1
Bromobenzene	5.244	5.119	5.252	5.685	5.502	5.282	5.635	5.539	5.484	5.381	5.362										5.407598	3.28	0.033	1
1,1,2,2-TETRACHLOROETHANE	1.863	2.474	2.499	2.381	2.344	2.286	2.546	2.505	2.439	2.37	2.34										2.368067	7.87	0.079	1
1,2,3-TRICHLOROPROPANE	0.701	0.473	0.583	0.739	0.712	0.696	0.753	0.723	0.721	0.678	0.676										0.677747	12.01	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE			0.526	0.527	0.593	0.622	0.729	0.733	0.728	0.71	0.721										0.654363	13.49	0.135	1
n-Propylbenzene	12.74	13.54	13.9	14.22	14.06	13.42	14.5	14.27	14.15	13.96	13.67										13.85793	3.55	0.035	1
4-ETHYLTOLUENE	10.54	10.42	10.69	11.96	11.34	11.15	12.13	11.81	11.6	11.41	11.11										11.28714	5.05	0.051	1
2-Chlorotoluene	2.424	2.495	2.491	2.857	2.837	2.689	2.77	2.665	2.605	2.483	2.302										2.601694	6.87	0.069	1
4-Chlorotoluene	7.616	8.405	8.012	8.868	8.777	8.345	9.245	9.071	8.918	8.815	8.709										8.6165 2	5.58	0.056	1
1,3,5-Trimethylbenzene	8.32	8.88	9.1	9.74	9.8	9.54	10.32	10.16	9.96	9.71	9.42										9.5399 6	6.14	0.061	1
tert-Butylbenzene	6.518	7.133	6.859	7.719	7.648	7.613	8.356	8.168	8.044	7.856	7.639										7.595835	7.34	0.073	1
1,2,4-Trimethylbenzene	8.059999	9.17	9.110001	9.9	10.06	9.52	10.66	10.33	10.13	9.95	9.76										9.6952 9	7.37	0.074	1
sec-Butylbenzene	8.94	11.04	11.24	12.29	12.55	12.08	13.41	13.16	12.86	12.5	12.31										12.03619	10.4	0.104	1
1,3-DICHLOROBENZENE	4.375	5.347	4.928	5.509	5.093	4.788	5.155	4.891	4.782	4.653	4.416										4.903276	7.27	0.073	1
p-Isopropyltoluene	7.3	8.02	8.21	9.58	9.98	9.79	10.73	10.53	10.3	9.92	9.47										9.43874	11.78	0.118	1
DICYCLOPENTADIENE			7.87	9.83	10.07	10.23	12.03	12.16	12.4	12.17	12.51										11.03089	14.55	0.146	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.991	1.922	1.945	1.915	1.945	1.759	1.898	1.83	1.808	1.798	1.797										1.873538	4.12	0.041	1
1,2,3-TRIMETHYLBENZENE	3.617	3.651	3.6	3.775	3.898	3.623	4.114	4.011	4.074	4.092	4.331										3.889581	6.48	0.065	1
1,2-DICHLOROBENZENE	1.569	1.701	1.698	1.737	1.706	1.615	1.814	1.738	1.738	1.743	1.837										1.717805	4.46	0.045	1
n-Butylbenzene	2.944	3.067	3.184	3.429	3.535	3.409	3.909	3.859	3.91	3.946	4.272										3.587661	11.78	0.118	1
1,2-Dibromo-3-chloropropane				0.114	0.129	0.13	0.15	0.148	0.149	0.148	0.17										0.142283	12.17	0.122	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SM 20th	Released On	: 10/22/2014 3:25:44 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	0.804	0.895	0.976	0.939	0.969	0.947	1.075	1.031	1.027	1.036	1.105										0.982132	8.75	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.467	0.541	0.518	0.508	0.52	0.492	0.55	0.529	0.517	0.523	0.548										0.51938	4.68	0.047	1
Naphthalene	2.228	2.241	2.169	2.191	2.276	2.224	2.709	2.686	2.722	2.755	3.08										2.480156	12.73	0.127	1
1,2,3-Trichlorobenzene	0.666	1.006	0.923	0.914	0.921	0.879	0.98	0.949	0.95	0.952	1.018										0.923586	10.23	0.102	1
1-Methylnaphthalene					1.176	1.186	1.439	1.496	1.559	1.593	1.732										1.454271	14.27	0.143	1
2-Methylnaphthalene			0.889	0.997	1.088	1.08	1.275	1.309	1.327	1.328	1.437										1.192349	15.42	0.154	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.007	0.007	0.007483	9.64	0.096	1
Bromoethane												0.467	0.46	0.535	0.512	0.55	0.525	0.587	0.523	0.529	0.520895	7.5	0.075	1
2-PROPANOL												0.042	0.038	0.035	0.033	0.037	0.034	0.036	0.031	0.035	0.03558	8.88	0.089	1
Methyl Acetate												0.37	0.348	0.41	0.381	0.401	0.399	0.435	0.365	0.409	0.390871	6.91	0.069	1
ACETONITRILE												0.067	0.064	0.076	0.07	0.076	0.076	0.081	0.068	0.076	0.072608	7.76	0.078	1
ALLYL CHLORIDE												0.337	0.321	0.371	0.37	0.376	0.376	0.434	0.376	0.376	0.370906	8.41	0.084	1
tert-BUTYL ALCOHOL												0.118	0.112	0.11	0.107	0.117	0.106	0.114	0.091	0.099	0.108324	7.94	0.079	1
chloroprene												0.554	0.511	0.647	0.638	0.65	0.653	0.74	0.635	0.657	0.631749	10.35	0.103	1
ETHYL TERT-BUTYL ETHER												1.9	1.826	2.198	2.095	2.194	2.171	2.51	2.206	2.265	2.15144	9.31	0.093	1
PROPIONITRILE												0.076	0.074	0.086	0.081	0.086	0.086	0.094	0.078	0.088	0.083308	7.97	0.08	1
Ethyl Acetate												0.495	0.456	0.525	0.503	0.542	0.54	0.608	0.498	0.572	0.526552	8.63	0.086	1
METHACRYLONITRILE												0.237	0.235	0.275	0.262	0.276	0.275	0.304	0.257	0.283	0.267012	8.18	0.082	1
Cyclohexane												0.819	0.757	0.968	0.932	0.951	0.916	1.035	0.877	0.908	0.906915	9.04	0.09	1
tert-butyl formate												0.324	0.291	0.438	0.416	0.429	0.474	0.499	0.46	0.464	0.421701	16.53	0.995	0
ISOBUTANOL												0.028	0.024	0.035	0.032	0.034	0.036	0.038	0.035	0.035	0.033121	13.41	0.134	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SM 20th	Released On	: 10/22/2014 3:25:44 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.037	0.036	0.04	0.037	0.043	0.043	0.044	0.037	0.045	0.040066	9.32	0.093	1
TERT-AMYL METHYL ETHER												1.784	1.66	2.057	1.908	1.986	1.998	2.288	1.958	1.988	1.958589	8.92	0.089	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.009	0.008197	11.6	0.116	1
Methyl Cyclohexane												1.089	0.7	0.735	0.653	0.667	0.622	0.711	0.58	0.613	0.707766	21.4	0.991	0
-nitropropane												0.067	0.063	0.078	0.071	0.078	0.079	0.086	0.07	0.083	0.074946	10.21	0.102	1
METHYL METHACRYLATE												0.222	0.232	0.286	0.272	0.284	0.283	0.322	0.263	0.292	0.273055	11.26	0.113	1
1,4-DIOXANE												0.003	0.003	0.004	0.003	0.004	0.004	0.004	0.003	0.003	0.003521	9.02	0.09	1
n-octane												0.299	0.282	0.338	0.308	0.329	0.334	0.379	0.3	0.33	0.322119	8.88	0.089	1
3,3-DIMETHYL-1-BUTANOL												0.015	0.016	0.019	0.018	0.02	0.02	0.021	0.017	0.021	0.018549	12.86	0.129	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.811	1.922	2.407	2.452	2.548	2.59				2.288419	14.64	0.146	1
CIS-1,4-DICHLORO-2-BUTENE												0.577	0.605	0.69	0.688	0.715	0.713	0.817	0.69	0.723	0.690953	10.02	0.1	1
Cyclohexanone												0.176	0.196	0.239	0.203	0.253	0.255				0.220357	15	0.15	1
PENTACHLOROETHANE												1.453	1.303	1.492	1.488	1.461	1.45	1.665	1.444	1.424	1.464553	6.39	0.064	1
Hexachloroethane												1.496	1.487	1.794	1.706	1.743	1.729	2	1.724	1.727	1.711757	8.97	0.09	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:22:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.095	0.087	0.075	0.082	0.082	0.076	0.077	0.083										0.082293	8.18	0.082	1
DICHLORODIFLUOROMETHANE	0.453	0.624	0.632	0.659	0.668	0.606	0.654	0.669	0.632	0.634	0.673										0.627682	9.84	0.098	1
CHLOROMETHANE	0.659	0.881	0.846	0.844	0.863	0.797	0.897	0.92	0.866	0.907	0.952										0.857377	9.1	0.091	1
VINYL CHLORIDE	0.815	0.899	0.909	0.909	0.93	0.885	0.975	0.977	0.911	0.944	0.986										0.921627	5.35	0.053	1
1,3-BUTADIENE	0.625	0.584	0.516	0.539	0.534	0.533	0.571	0.575	0.543	0.574	0.605										0.5635	5.97	0.06	1
BROMOMETHANE			0.522	0.423	0.424	0.38	0.339	0.311													0.399915	18.74	0.996	0
CHLOROETHANE		0.187	0.186	0.196	0.183	0.185	0.179	0.181	0.161	0.159	0.124										0.1741	12.13	0.121	1
TRICHLOROFLUOROMETHANE	0.66	0.809	0.628	0.741	0.735	0.7	0.75	0.75	0.685	0.707	0.709										0.71588	6.88	0.069	1
DICHLOROFLUOROMETHANE	1.065	1.227	1.209	1.27	1.205	1.193	1.257	1.273	1.19	1.23	1.249										1.215149	4.76	0.048	1
ETHYL ETHER		0.973	0.817	0.77	0.695	0.649	0.706	0.694	0.652	0.663	0.683										0.730327	13.74	0.137	1
ACROLEIN	0.06	0.082	0.08	0.089	0.092	0.085	0.1	0.101	0.095	0.099	0.107										0.090219	14.55	0.145	1
1,1-DICHLOROETHENE	0.966	0.987	1.01	1.016	1.063	0.989	1.099	1.092	1.045	1.05	1.089										1.036898	4.48	0.045	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.375	0.537	0.466	0.525	0.534	0.484	0.526	0.529	0.503	0.507	0.509										0.49951	9.34	0.093	1
ACETONE				0.237	0.193	0.161	0.171	0.171	0.161	0.163	0.176										0.179126	14.33	0.143	1
IODOMETHANE	1.006	1.016	1.04	1.042	1.045	0.987	1.08	1.08	0.988	1.001	0.97										1.023136	3.62	0.036	1
CARBON DISULFIDE	2.492	2.464	2.434	2.424	2.327	2.164	2.391	2.433	2.284	2.332	2.343										2.371842	3.98	0.04	1
METHYLENE CHLORIDE				1.139	0.897	0.827	0.853	0.863	0.799	0.827	0.872										0.884739	12.12	0.121	1
ACRYLONITRILE	0.138	0.179	0.193	0.189	0.197	0.195	0.226	0.227	0.216	0.223	0.245										0.202509	14.44	0.144	1
n-Hexane		0.967	0.814	0.71	0.646	0.611	0.689	0.686	0.653	0.677	0.71										0.716379	14.42	0.144	1
TRANS-1,2-DICHLOROETHENE	0.529	0.732	0.691	0.718	0.723	0.692	0.777	0.781	0.737	0.763	0.797										0.721717	10.09	0.101	1
METHYL TERT-BUTYL ETHER	1.636	1.811	1.946	1.888	1.977	1.923	2.135	2.179	2.038	2.081	2.281										1.990497	9.08	0.091	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:22:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.031	1.392	1.354	1.352	1.351	1.255	1.404	1.42	1.354	1.402	1.5										1.346791	8.96	0.09	1
VINYL ACETATE	0.766	0.821	0.889	0.826	0.927	0.89	1.048	1.076	1.06	1.07	1.11										0.952949	12.91	0.129	1
DI-ISOPROPYL ETHER	1.835	2.174	2.152	2.214	2.257	2.175	2.528	2.533	2.462	2.577	2.809										2.337983	11.57	0.116	1
2,2-Dichloropropane	0.776	0.758	0.805	0.817	0.801	0.768	0.816	0.845	0.742	0.808	0.821										0.796209	3.9	0.039	1
CIS-1,2-DICHLOROETHENE	0.578	0.856	0.743	0.829	0.827	0.789	0.861	0.879	0.824	0.855	0.896										0.812391	10.91	0.109	1
2-BUTANONE (MEK)	0.066	0.062	0.065	0.074	0.074	0.073	0.083	0.083	0.078	0.081	0.086										0.074869	10.79	0.108	1
BROMOCHLOROMETHANE	0.287	0.485	0.42	0.43	0.471	0.435	0.479	0.471	0.438	0.456	0.466										0.439849	12.5	0.125	1
TETRAHYDROFURAN			0.192	0.16	0.184	0.162	0.175	0.177	0.169	0.171	0.187										0.175098	6.22	0.062	1
CHLOROFORM	1.114	1.257	1.264	1.298	1.326	1.257	1.371	1.374	1.31	1.343	1.433										1.304353	6.43	0.064	1
DIBROMOFLUOROMETHANE	0.545	0.541	0.55	0.534	0.536	0.548	0.565	0.567	0.567	0.58	0.597										0.557416	3.56	0.036	1
1,1,1-TRICHLOROETHANE	0.851	0.884	0.917	0.941	0.95	0.932	1.003	1.019	0.956	1.02	1.077										0.959028	6.88	0.069	1
CARBON TETRACHLORIDE	0.635	0.681	0.813	0.81	0.822	0.728	0.834	0.849	0.806	0.817	0.859										0.786846	9.23	0.092	1
1,1-Dichloropropene	0.778	0.916	0.981	0.944	0.978	0.933	1.066	1.048	1.015	1.051	1.11										0.983525	9.29	0.093	1
2,2,4-TRIMETHYLPENTANE	2.579	2.884	2.616	2.879	2.75	2.591	2.855	3.037	2.837	2.959	3.163										2.831808	6.6	0.066	1
HEPTANE	0.846	0.857	0.999	1.043	1.037	0.997	1.127	1.161	1.12	1.194	1.24										1.056536	12.12	0.121	1
BENZENE	2.821	3.253	3.276	3.091	3.145	3.018	3.317	3.283	3.168	3.304	3.479										3.195907	5.51	0.055	1
1,2-DICHLOROETHANE	0.888	0.919	0.992	1.053	1.019	0.963	1.068	1.046	0.993	1.01	1.074										1.002257	6	0.06	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.522	0.502	0.407	0.406	0.399	0.364	0.384	0.373	0.356	0.361	0.362										0.403159	14.09	0.141	1
1,2-DICHLOROPROPANE	0.268	0.261	0.281	0.279	0.284	0.27	0.299	0.3	0.293	0.303	0.307										0.285982	5.46	0.055	1
DIBROMOMETHANE	0.164	0.216	0.233	0.208	0.23	0.206	0.221	0.219	0.208	0.21	0.212										0.211538	8.52	0.085	1
BROMODICHLOROMETHANE	0.513	0.546	0.517	0.541	0.53	0.499	0.547	0.548	0.534	0.543	0.557										0.534039	3.32	0.033	1

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Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:22:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.551	0.558	0.551	0.549	0.547	0.542	0.534	0.533	0.524	0.526	0.521										0.539563	2.33	0.023	1
-CHLOROETHYL VINYL ETHER				0.133	0.147	0.152	0.184	0.187	0.186	0.192	0.21										0.17383	15.32	0.153	1
CIS-1,3-DICHLOROPROPENE	0.426	0.581	0.61	0.57	0.645	0.62	0.679	0.685	0.681	0.694	0.712										0.627568	13.05	0.13	1
4-METHYL-2-PENTANONE (MIBK)	0.089	0.092	0.103	0.099	0.115	0.107	0.127	0.128	0.125	0.125	0.134										0.112945	13.94	0.139	1
TOLUENE-D8	1.27	1.282	1.277	1.268	1.28	1.273	1.269	1.265	1.273	1.272	1.259										1.271646	0.53	0.005	1
TOLUENE	1.501	1.805	1.823	1.85	1.815	1.706	1.802	1.778	1.729	1.777	1.781										1.760761	5.41	0.054	1
TRANS-1,3-DICHLOROPROPENE		0.108	0.092	0.129	0.134	0.129	0.139	0.144	0.137	0.143	0.143										0.129701	13.14	0.131	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.542	1.934	1.992	2.162	2.041	1.846	2.034	1.939	1.897	1.857	1.854										1.918122	8.23	0.082	1
TETRACHLOROETHENE	1.374	1.648	1.52	1.76	1.559	1.444	1.536	1.482	1.457	1.41	1.33										1.501758	8.23	0.082	1
1,3-Dichloropropane	3.209	3.71	4.029	3.826	3.633	3.509	3.772	3.603	3.599	3.568	3.53										3.635215	5.71	0.057	1
2-HEXANONE		0.562	0.569	0.551	0.635	0.619	0.752	0.743	0.737	0.713	0.746										0.662662	12.66	0.127	1
CHLORODIBROMOMETHANE	1.396	1.737	1.823	1.884	1.879	1.833	2.028	1.992	1.969	1.939	1.927										1.855142	9.36	0.094	1
1,2-DIBROMOETHANE	1.404	1.697	1.844	1.971	1.926	1.745	1.946	1.866	1.845	1.803	1.786										1.802877	8.69	0.087	1
CHLOROBENZENE	6.136	6.768	6.675	7.357	6.752	6.521	6.982	6.702	6.564	6.425	6.097										6.634518	5.39	0.054	1
1,1,1,2-TETRACHLOROETHANE	2.058	1.973	1.889	2.035	1.974	1.933	2.101	2.056	2.023	1.985	1.929										1.996037	3.24	0.032	1
ETHYLBENZENE	3.053	3.415	3.487	3.765	3.632	3.619	3.867	3.728	3.721	3.663	3.497										3.586153	6.17	0.062	1
M&P-XYLENE	3.879	4.055	4.191	4.715	4.65	4.494	4.832	4.683	4.578	4.498	4.313										4.44428	6.74	0.067	1
O-XYLENE	3.31	4.084	4.157	4.503	4.413	4.246	4.722	4.62	4.53	4.427	4.355										4.305894	8.86	0.089	1
STYRENE	3.486	3.938	4.223	4.587	5.403	6.168	7.041	7.33	7.399	7.206	7.232										5.819279	26.36	0.999	0
Bromoform		0.786	0.932	1.046	1.039	1.011	1.094	1.062	1.05	1.025	1.014										1.005847	8.75	0.088	1
Isopropylbenzene	7.059999	10.38	10.26	10.96	11.1	10.76	11.89	11.74	11.55	11.32	11.1										10.7393	12.32	0.123	1

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.92	2.975	2.894	3.045	2.939	3.007	2.967	2.984	3.058	2.936	2.886										2.964638	1.91	0.019	1
Bromobenzene	5.244	5.119	5.252	5.685	5.502	5.282	5.635	5.539	5.484	5.381	5.362										5.407598	3.28	0.033	1
1,1,2,2-TETRACHLOROETHANE	1.863	2.474	2.499	2.381	2.344	2.286	2.546	2.505	2.439	2.37	2.34										2.368067	7.87	0.079	1
1,2,3-TRICHLOROPROPANE	0.701	0.473	0.583	0.739	0.712	0.696	0.753	0.723	0.721	0.678	0.676										0.677747	12.01	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE			0.526	0.527	0.593	0.622	0.729	0.733	0.728	0.71	0.721										0.654363	13.49	0.135	1
n-Propylbenzene	12.74	13.54	13.9	14.22	14.06	13.42	14.5	14.27	14.15	13.96	13.67										13.85793	3.55	0.035	1
4-ETHYLTOLUENE	10.54	10.42	10.69	11.96	11.34	11.15	12.13	11.81	11.6	11.41	11.11										11.28714	5.05	0.051	1
2-Chlorotoluene	2.424	2.495	2.491	2.857	2.837	2.689	2.77	2.665	2.605	2.483	2.302										2.601694	6.87	0.069	1
4-Chlorotoluene	7.616	8.405	8.012	8.868	8.777	8.345	9.245	9.071	8.918	8.815	8.709										8.61652	5.58	0.056	1
1,3,5-Trimethylbenzene	8.32	8.88	9.1	9.74	9.8	9.54	10.32	10.16	9.96	9.71	9.42										9.53996	6.14	0.061	1
tert-Butylbenzene	6.518	7.133	6.859	7.719	7.648	7.613	8.356	8.168	8.044	7.856	7.639										7.595835	7.34	0.073	1
1,2,4-Trimethylbenzene	8.059999	9.17	9.110001	9.9	10.06	9.52	10.66	10.33	10.13	9.95	9.76										9.69529	7.37	0.074	1
sec-Butylbenzene	8.94	11.04	11.24	12.29	12.55	12.08	13.41	13.16	12.86	12.5	12.31										12.03619	10.4	0.104	1
1,3-DICHLOROBENZENE	4.375	5.347	4.928	5.509	5.093	4.788	5.155	4.891	4.782	4.653	4.416										4.903276	7.27	0.073	1
p-Isopropyltoluene	7.3	8.02	8.21	9.58	9.98	9.79	10.73	10.53	10.3	9.92	9.47										9.43874	11.78	0.118	1
DICYCLOPENTADIENE			7.87	9.83	10.07	10.23	12.03	12.16	12.4	12.17	12.51										11.03089	14.55	0.146	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.991	1.922	1.945	1.915	1.945	1.759	1.898	1.83	1.808	1.798	1.797										1.873538	4.12	0.041	1
1,2,3-TRIMETHYLBENZENE	3.617	3.651	3.6	3.775	3.898	3.623	4.114	4.011	4.074	4.092	4.331										3.889581	6.48	0.065	1
1,2-DICHLOROBENZENE	1.569	1.701	1.698	1.737	1.706	1.615	1.814	1.738	1.738	1.743	1.837										1.717805	4.46	0.045	1
n-Butylbenzene	2.944	3.067	3.184	3.429	3.535	3.409	3.909	3.859	3.91	3.946	4.272										3.587661	11.78	0.118	1
1,2-Dibromo-3-chloropropane				0.114	0.129	0.13	0.15	0.148	0.149	0.148	0.17										0.142283	12.17	0.122	1

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1,2,4-Trichlorobenzene	0.804	0.895	0.976	0.939	0.969	0.947	1.075	1.031	1.027	1.036	1.105										0.982132	8.75	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.467	0.541	0.518	0.508	0.52	0.492	0.55	0.529	0.517	0.523	0.548										0.51938	4.68	0.047	1
Naphthalene	2.228	2.241	2.169	2.191	2.276	2.224	2.709	2.686	2.722	2.755	3.08										2.480156	12.73	0.127	1
1,2,3-Trichlorobenzene	0.666	1.006	0.923	0.914	0.921	0.879	0.98	0.949	0.95	0.952	1.018										0.923586	10.23	0.102	1
1-Methylnaphthalene					1.176	1.186	1.439	1.496	1.559	1.593	1.732										1.454271	14.27	0.143	1
2-Methylnaphthalene			0.889	0.997	1.088	1.08	1.275	1.309	1.327	1.328	1.437										1.192349	15.42	0.154	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.007	0.007	0.007483	9.64	0.096	1
Bromoethane												0.467	0.46	0.535	0.512	0.55	0.525	0.587	0.523	0.529	0.520895	7.5	0.075	1
2-PROPANOL												0.042	0.038	0.035	0.033	0.037	0.034	0.036	0.031	0.035	0.03558	8.88	0.089	1
Methyl Acetate												0.37	0.348	0.41	0.381	0.401	0.399	0.435	0.365	0.409	0.390871	6.91	0.069	1
ACETONITRILE												0.067	0.064	0.076	0.07	0.076	0.076	0.081	0.068	0.076	0.072608	7.76	0.078	1
ALLYL CHLORIDE												0.337	0.321	0.371	0.37	0.376	0.376	0.434	0.376	0.376	0.370906	8.41	0.084	1
tert-BUTYL ALCOHOL												0.118	0.112	0.11	0.107	0.117	0.106	0.114	0.091	0.099	0.108324	7.94	0.079	1
chloroprene												0.554	0.511	0.647	0.638	0.65	0.653	0.74	0.635	0.657	0.631749	10.35	0.103	1
ETHYL TERT-BUTYL ETHER												1.9	1.826	2.198	2.095	2.194	2.171	2.51	2.206	2.265	2.15144	9.31	0.093	1
PROPIONITRILE												0.076	0.074	0.086	0.081	0.086	0.086	0.094	0.078	0.088	0.083308	7.97	0.08	1
Ethyl Acetate												0.495	0.456	0.525	0.503	0.542	0.54	0.608	0.498	0.572	0.526552	8.63	0.086	1
METHACRYLONITRILE												0.237	0.235	0.275	0.262	0.276	0.275	0.304	0.257	0.283	0.267012	8.18	0.082	1
Cyclohexane												0.819	0.757	0.968	0.932	0.951	0.916	1.035	0.877	0.908	0.906915	9.04	0.09	1
tert-butyl formate												0.324	0.291	0.438	0.416	0.429	0.474	0.499	0.46	0.464	0.421701	16.53	0.995	0
ISOBUTANOL												0.028	0.024	0.035	0.032	0.034	0.036	0.038	0.035	0.035	0.033121	13.41	0.134	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:22:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.037	0.036	0.04	0.037	0.043	0.043	0.044	0.037	0.045	0.040066	9.32	0.093	1
TERT-AMYL METHYL ETHER												1.784	1.66	2.057	1.908	1.986	1.998	2.288	1.958	1.988	1.958589	8.92	0.089	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.009	0.008197	11.6	0.116	1
Methyl Cyclohexane												1.089	0.7	0.735	0.653	0.667	0.622	0.711	0.58	0.613	0.707766	21.4	0.991	0
-nitropropane												0.067	0.063	0.078	0.071	0.078	0.079	0.086	0.07	0.083	0.074946	10.21	0.102	1
METHYL METHACRYLATE												0.222	0.232	0.286	0.272	0.284	0.283	0.322	0.263	0.292	0.273055	11.26	0.113	1
1,4-DIOXANE												0.003	0.003	0.004	0.003	0.004	0.004	0.004	0.003	0.003	0.003521	9.02	0.09	1
n-octane												0.299	0.282	0.338	0.308	0.329	0.334	0.379	0.3	0.33	0.322119	8.88	0.089	1
3,3-DIMETHYL-1-BUTANOL												0.015	0.016	0.019	0.018	0.02	0.02	0.021	0.017	0.021	0.018549	12.86	0.129	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.811	1.922	2.407	2.452	2.548	2.59				2.288419	14.64	0.146	1
CIS-1,4-DICHLORO-2-BUTENE												0.577	0.605	0.69	0.688	0.715	0.713	0.817	0.69	0.723	0.690953	10.02	0.1	1
Cyclohexanone												0.176	0.196	0.239	0.203	0.253	0.255				0.220357	15	0.15	1
PENTACHLOROETHANE												1.453	1.303	1.492	1.488	1.461	1.45	1.665	1.444	1.424	1.464553	6.39	0.064	1
Hexachloroethane												1.496	1.487	1.794	1.706	1.743	1.729	2	1.724	1.727	1.711757	8.97	0.09	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:23:00 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.095	0.087	0.075	0.082	0.082	0.076	0.077	0.083										0.082293	8.18	0.082	1
DICHLORODIFLUOROMETHANE	0.453	0.624	0.632	0.659	0.668	0.606	0.654	0.669	0.632	0.634	0.673										0.627682	9.84	0.098	1
CHLOROMETHANE	0.659	0.881	0.846	0.844	0.863	0.797	0.897	0.92	0.866	0.907	0.952										0.857377	9.1	0.091	1
VINYL CHLORIDE	0.815	0.899	0.909	0.909	0.93	0.885	0.975	0.977	0.911	0.944	0.986										0.921627	5.35	0.053	1
1,3-BUTADIENE	0.625	0.584	0.516	0.539	0.534	0.533	0.571	0.575	0.543	0.574	0.605										0.5635	5.97	0.06	1
BROMOMETHANE			0.522	0.423	0.424	0.38	0.339	0.311													0.399915	18.74	0.996	0
CHLOROETHANE		0.187	0.186	0.196	0.183	0.185	0.179	0.181	0.161	0.159	0.124										0.1741	12.13	0.121	1
TRICHLOROFLUOROMETHANE	0.66	0.809	0.628	0.741	0.735	0.7	0.75	0.75	0.685	0.707	0.709										0.7158	6.88	0.069	1
DICHLOROFLUOROMETHANE	1.065	1.227	1.209	1.27	1.205	1.193	1.257	1.273	1.19	1.23	1.249										1.215149	4.76	0.048	1
ETHYL ETHER		0.973	0.817	0.77	0.695	0.649	0.706	0.694	0.652	0.663	0.683										0.730327	13.74	0.137	1
ACROLEIN	0.06	0.082	0.08	0.089	0.092	0.085	0.1	0.101	0.095	0.099	0.107										0.090219	14.55	0.145	1
1,1-DICHLOROETHENE	0.966	0.987	1.01	1.016	1.063	0.989	1.099	1.092	1.045	1.05	1.089										1.036898	4.48	0.045	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.375	0.537	0.466	0.525	0.534	0.484	0.526	0.529	0.503	0.507	0.509										0.49951	9.34	0.093	1
ACETONE				0.237	0.193	0.161	0.171	0.171	0.161	0.163	0.176										0.179126	14.33	0.143	1
IODOMETHANE	1.006	1.016	1.04	1.042	1.045	0.987	1.08	1.08	0.988	1.001	0.97										1.023136	3.62	0.036	1
CARBON DISULFIDE	2.492	2.464	2.434	2.424	2.327	2.164	2.391	2.433	2.284	2.332	2.343										2.371842	3.98	0.04	1
METHYLENE CHLORIDE				1.139	0.897	0.827	0.853	0.863	0.799	0.827	0.872										0.884739	12.12	0.121	1
ACRYLONITRILE	0.138	0.179	0.193	0.189	0.197	0.195	0.226	0.227	0.216	0.223	0.245										0.202509	14.44	0.144	1
n-Hexane		0.967	0.814	0.71	0.646	0.611	0.689	0.686	0.653	0.677	0.71										0.716379	14.42	0.144	1
TRANS-1,2-DICHLOROETHENE	0.529	0.732	0.691	0.718	0.723	0.692	0.777	0.781	0.737	0.763	0.797										0.721717	10.09	0.101	1
METHYL TERT-BUTYL ETHER	1.636	1.811	1.946	1.888	1.977	1.923	2.135	2.179	2.038	2.081	2.281										1.990497	9.08	0.091	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:23:00 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.031	1.392	1.354	1.352	1.351	1.255	1.404	1.42	1.354	1.402	1.5										1.346791	8.96	0.09	1
VINYL ACETATE	0.766	0.821	0.889	0.826	0.927	0.89	1.048	1.076	1.06	1.07	1.11										0.952949	12.91	0.129	1
DI-ISOPROPYL ETHER	1.835	2.174	2.152	2.214	2.257	2.175	2.528	2.533	2.462	2.577	2.809										2.337983	11.57	0.116	1
2,2-Dichloropropane	0.776	0.758	0.805	0.817	0.801	0.768	0.816	0.845	0.742	0.808	0.821										0.796209	3.9	0.039	1
CIS-1,2-DICHLOROETHENE	0.578	0.856	0.743	0.829	0.827	0.789	0.861	0.879	0.824	0.855	0.896										0.812391	10.91	0.109	1
2-BUTANONE (MEK)	0.066	0.062	0.065	0.074	0.074	0.073	0.083	0.083	0.078	0.081	0.086										0.074869	10.79	0.108	1
BROMOCHLOROMETHANE	0.287	0.485	0.42	0.43	0.471	0.435	0.479	0.471	0.438	0.456	0.466										0.439849	12.5	0.125	1
TETRAHYDROFURAN			0.192	0.16	0.184	0.162	0.175	0.177	0.169	0.171	0.187										0.175098	6.22	0.062	1
CHLOROFORM	1.114	1.257	1.264	1.298	1.326	1.257	1.371	1.374	1.31	1.343	1.433										1.304353	6.43	0.064	1
DIBROMOFLUOROMETHANE	0.545	0.541	0.55	0.534	0.536	0.548	0.565	0.567	0.567	0.58	0.597										0.557416	3.56	0.036	1
1,1,1-TRICHLOROETHANE	0.851	0.884	0.917	0.941	0.95	0.932	1.003	1.019	0.956	1.02	1.077										0.959028	6.88	0.069	1
CARBON TETRACHLORIDE	0.635	0.681	0.813	0.81	0.822	0.728	0.834	0.849	0.806	0.817	0.859										0.786846	9.23	0.092	1
1,1-Dichloropropene	0.778	0.916	0.981	0.944	0.978	0.933	1.066	1.048	1.015	1.051	1.11										0.983525	9.29	0.093	1
2,2,4-TRIMETHYLPENTANE	2.579	2.884	2.616	2.879	2.75	2.591	2.855	3.037	2.837	2.959	3.163										2.831808	6.6	0.066	1
HEPTANE	0.846	0.857	0.999	1.043	1.037	0.997	1.127	1.161	1.12	1.194	1.24										1.056536	12.12	0.121	1
BENZENE	2.821	3.253	3.276	3.091	3.145	3.018	3.317	3.283	3.168	3.304	3.479										3.195907	5.51	0.055	1
1,2-DICHLOROETHANE	0.888	0.919	0.992	1.053	1.019	0.963	1.068	1.046	0.993	1.01	1.074										1.002257	6	0.06	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.522	0.502	0.407	0.406	0.399	0.364	0.384	0.373	0.356	0.361	0.362										0.403159	14.09	0.141	1
1,2-DICHLOROPROPANE	0.268	0.261	0.281	0.279	0.284	0.27	0.299	0.3	0.293	0.303	0.307										0.285982	5.46	0.055	1
DIBROMOMETHANE	0.164	0.216	0.233	0.208	0.23	0.206	0.221	0.219	0.208	0.21	0.212										0.211538	8.52	0.085	1
BROMODICHLOROMETHANE	0.513	0.546	0.517	0.541	0.53	0.499	0.547	0.548	0.534	0.543	0.557										0.534039	3.32	0.033	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:23:00 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.551	0.558	0.551	0.549	0.547	0.542	0.534	0.533	0.524	0.526	0.521										0.539563	2.33	0.023	1
2-CHLOROETHYL VINYL ETHER				0.133	0.147	0.152	0.184	0.187	0.186	0.192	0.21										0.17383	15.32	0.153	1
CIS-1,3-DICHLOROPROPENE	0.426	0.581	0.61	0.57	0.645	0.62	0.679	0.685	0.681	0.694	0.712										0.627568	13.05	0.13	1
4-METHYL-2-PENTANONE (MIBK)	0.089	0.092	0.103	0.099	0.115	0.107	0.127	0.128	0.125	0.125	0.134										0.112945	13.94	0.139	1
TOLUENE-D8	1.27	1.282	1.277	1.268	1.28	1.273	1.269	1.265	1.273	1.272	1.259										1.271646	0.53	0.005	1
TOLUENE	1.501	1.805	1.823	1.85	1.815	1.706	1.802	1.778	1.729	1.777	1.781										1.760761	5.41	0.054	1
TRANS-1,3-DICHLOROPROPENE		0.108	0.092	0.129	0.134	0.129	0.139	0.144	0.137	0.143	0.143										0.129701	13.14	0.131	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.542	1.934	1.992	2.162	2.041	1.846	2.034	1.939	1.897	1.857	1.854										1.918122	8.23	0.082	1
TETRACHLOROETHENE	1.374	1.648	1.52	1.76	1.559	1.444	1.536	1.482	1.457	1.41	1.33										1.501758	8.23	0.082	1
1,3-Dichloropropane	3.209	3.71	4.029	3.826	3.633	3.509	3.772	3.603	3.599	3.568	3.53										3.635215	5.71	0.057	1
2-HEXANONE		0.562	0.569	0.551	0.635	0.619	0.752	0.743	0.737	0.713	0.746										0.662662	12.66	0.127	1
CHLORODIBROMOMETHANE	1.396	1.737	1.823	1.884	1.879	1.833	2.028	1.992	1.969	1.939	1.927										1.855142	9.36	0.094	1
1,2-DIBROMOETHANE	1.404	1.697	1.844	1.971	1.926	1.745	1.946	1.866	1.845	1.803	1.786										1.802877	8.69	0.087	1
CHLOROBENZENE	6.136	6.768	6.675	7.357	6.752	6.521	6.982	6.702	6.564	6.425	6.097										6.634518	5.39	0.054	1
1,1,1,2-TETRACHLOROETHANE	2.058	1.973	1.889	2.035	1.974	1.933	2.101	2.056	2.023	1.985	1.929										1.996037	3.24	0.032	1
ETHYLBENZENE	3.053	3.415	3.487	3.765	3.632	3.619	3.867	3.728	3.721	3.663	3.497										3.586153	6.17	0.062	1
M&P-XYLENE	3.879	4.055	4.191	4.715	4.65	4.494	4.832	4.683	4.578	4.498	4.313										4.44428	6.74	0.067	1
O-XYLENE	3.31	4.084	4.157	4.503	4.413	4.246	4.722	4.62	4.53	4.427	4.355										4.305894	8.86	0.089	1
STYRENE	3.486	3.938	4.223	4.587	5.403	6.168	7.041	7.33	7.399	7.206	7.232										5.819279	26.36	0.999	0
Bromoform		0.786	0.932	1.046	1.039	1.011	1.094	1.062	1.05	1.025	1.014										1.005847	8.75	0.088	1
Isopropylbenzene	7.059999	10.38	10.26	10.96	11.1	10.76	11.89	11.74	11.55	11.32	11.1										10.7393	12.32	0.123	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:23:00 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.92	2.975	2.894	3.045	2.939	3.007	2.967	2.984	3.058	2.936	2.886										2.964638	1.91	0.019	1
Bromobenzene	5.244	5.119	5.252	5.685	5.502	5.282	5.635	5.539	5.484	5.381	5.362										5.407598	3.28	0.033	1
1,1,2,2-TETRACHLOROETHANE	1.863	2.474	2.499	2.381	2.344	2.286	2.546	2.505	2.439	2.37	2.34										2.368067	7.87	0.079	1
1,2,3-TRICHLOROPROPANE	0.701	0.473	0.583	0.739	0.712	0.696	0.753	0.723	0.721	0.678	0.676										0.677747	12.01	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE			0.526	0.527	0.593	0.622	0.729	0.733	0.728	0.71	0.721										0.654363	13.49	0.135	1
n-Propylbenzene	12.74	13.54	13.9	14.22	14.06	13.42	14.5	14.27	14.15	13.96	13.67										13.85793	3.55	0.035	1
4-ETHYLTOLUENE	10.54	10.42	10.69	11.96	11.34	11.15	12.13	11.81	11.6	11.41	11.11										11.28714	5.05	0.051	1
2-Chlorotoluene	2.424	2.495	2.491	2.857	2.837	2.689	2.77	2.665	2.605	2.483	2.302										2.601694	6.87	0.069	1
4-Chlorotoluene	7.616	8.405	8.012	8.868	8.777	8.345	9.245	9.071	8.918	8.815	8.709										8.61652	5.58	0.056	1
1,3,5-Trimethylbenzene	8.32	8.88	9.1	9.74	9.8	9.54	10.32	10.16	9.96	9.71	9.42										9.53996	6.14	0.061	1
tert-Butylbenzene	6.518	7.133	6.859	7.719	7.648	7.613	8.356	8.168	8.044	7.856	7.639										7.595835	7.34	0.073	1
1,2,4-Trimethylbenzene	8.059999	9.17	9.110001	9.9	10.06	9.52	10.66	10.33	10.13	9.95	9.76										9.69529	7.37	0.074	1
sec-Butylbenzene	8.94	11.04	11.24	12.29	12.55	12.08	13.41	13.16	12.86	12.5	12.31										12.03619	10.4	0.104	1
1,3-DICHLOROBENZENE	4.375	5.347	4.928	5.509	5.093	4.788	5.155	4.891	4.782	4.653	4.416										4.903276	7.27	0.073	1
p-Isopropyltoluene	7.3	8.02	8.21	9.58	9.98	9.79	10.73	10.53	10.3	9.92	9.47										9.43874	11.78	0.118	1
DICYCLOPENTADIENE			7.87	9.83	10.07	10.23	12.03	12.16	12.4	12.17	12.51										11.03089	14.55	0.146	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.991	1.922	1.945	1.915	1.945	1.759	1.898	1.83	1.808	1.798	1.797										1.873538	4.12	0.041	1
1,2,3-TRIMETHYLBENZENE	3.617	3.651	3.6	3.775	3.898	3.623	4.114	4.011	4.074	4.092	4.331										3.889581	6.48	0.065	1
1,2-DICHLOROBENZENE	1.569	1.701	1.698	1.737	1.706	1.615	1.814	1.738	1.738	1.743	1.837										1.717805	4.46	0.045	1
n-Butylbenzene	2.944	3.067	3.184	3.429	3.535	3.409	3.909	3.859	3.91	3.946	4.272										3.587661	11.78	0.118	1
1,2-Dibromo-3-chloropropane				0.114	0.129	0.13	0.15	0.148	0.149	0.148	0.17										0.142283	12.17	0.122	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:23:00 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	0.804	0.895	0.976	0.939	0.969	0.947	1.075	1.031	1.027	1.036	1.105										0.982132	8.75	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.467	0.541	0.518	0.508	0.52	0.492	0.55	0.529	0.517	0.523	0.548										0.51938	4.68	0.047	1
Naphthalene	2.228	2.241	2.169	2.191	2.276	2.224	2.709	2.686	2.722	2.755	3.08										2.480156	12.73	0.127	1
1,2,3-Trichlorobenzene	0.666	1.006	0.923	0.914	0.921	0.879	0.98	0.949	0.95	0.952	1.018										0.923586	10.23	0.102	1
1-Methylnaphthalene					1.176	1.186	1.439	1.496	1.559	1.593	1.732										1.454271	14.27	0.143	1
2-Methylnaphthalene			0.889	0.997	1.088	1.08	1.275	1.309	1.327	1.328	1.437										1.192349	15.42	0.154	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.007	0.007	0.007483	9.64	0.096	1
Bromoethane												0.467	0.46	0.535	0.512	0.55	0.525	0.587	0.523	0.529	0.520895	7.5	0.075	1
2-PROPANOL												0.042	0.038	0.035	0.033	0.037	0.034	0.036	0.031	0.035	0.03558	8.88	0.089	1
Methyl Acetate												0.37	0.348	0.41	0.381	0.401	0.399	0.435	0.365	0.409	0.390871	6.91	0.069	1
ACETONITRILE												0.067	0.064	0.076	0.07	0.076	0.076	0.081	0.068	0.076	0.072608	7.76	0.078	1
ALLYL CHLORIDE												0.337	0.321	0.371	0.37	0.376	0.376	0.434	0.376	0.376	0.370906	8.41	0.084	1
tert-BUTYL ALCOHOL												0.118	0.112	0.11	0.107	0.117	0.106	0.114	0.091	0.099	0.108324	7.94	0.079	1
chloroprene												0.554	0.511	0.647	0.638	0.65	0.653	0.74	0.635	0.657	0.631749	10.35	0.103	1
ETHYL TERT-BUTYL ETHER												1.9	1.826	2.198	2.095	2.194	2.171	2.51	2.206	2.265	2.15144	9.31	0.093	1
PROPIONITRILE												0.076	0.074	0.086	0.081	0.086	0.086	0.094	0.078	0.088	0.083308	7.97	0.08	1
Ethyl Acetate												0.495	0.456	0.525	0.503	0.542	0.54	0.608	0.498	0.572	0.526552	8.63	0.086	1
METHACRYLONITRILE												0.237	0.235	0.275	0.262	0.276	0.275	0.304	0.257	0.283	0.267012	8.18	0.082	1
Cyclohexane												0.819	0.757	0.968	0.932	0.951	0.916	1.035	0.877	0.908	0.906915	9.04	0.09	1
tert-butyl formate												0.324	0.291	0.438	0.416	0.429	0.474	0.499	0.46	0.464	0.421701	16.53	0.995	0
ISOBUTANOL												0.028	0.024	0.035	0.032	0.034	0.036	0.038	0.035	0.035	0.033121	13.41	0.134	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: EPA	Released On	: 10/22/2014 3:23:00 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.037	0.036	0.04	0.037	0.043	0.043	0.044	0.037	0.045	0.040066	9.32	0.093	1
TERT-AMYL METHYL ETHER												1.784	1.66	2.057	1.908	1.986	1.998	2.288	1.958	1.988	1.958589	8.92	0.089	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.009	0.008197	11.6	0.116	1
Methyl Cyclohexane												1.089	0.7	0.735	0.653	0.667	0.622	0.711	0.58	0.613	0.707766	21.4	0.991	0
-nitropropane												0.067	0.063	0.078	0.071	0.078	0.079	0.086	0.07	0.083	0.074946	10.21	0.102	1
METHYL METHACRYLATE												0.222	0.232	0.286	0.272	0.284	0.283	0.322	0.263	0.292	0.273055	11.26	0.113	1
1,4-DIOXANE												0.003	0.003	0.004	0.003	0.004	0.004	0.004	0.003	0.003	0.003521	9.02	0.09	1
n-octane												0.299	0.282	0.338	0.308	0.329	0.334	0.379	0.3	0.33	0.322119	8.88	0.089	1
3,3-DIMETHYL-1-BUTANOL												0.015	0.016	0.019	0.018	0.02	0.02	0.021	0.017	0.021	0.018549	12.86	0.129	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.811	1.922	2.407	2.452	2.548	2.59				2.288419	14.64	0.146	1
CIS-1,4-DICHLORO-2-BUTENE												0.577	0.605	0.69	0.688	0.715	0.713	0.817	0.69	0.723	0.690953	10.02	0.1	1
Cyclohexanone												0.176	0.196	0.239	0.203	0.253	0.255				0.220357	15	0.15	1
PENTACHLOROETHANE												1.453	1.303	1.492	1.488	1.461	1.45	1.665	1.444	1.424	1.464553	6.39	0.064	1
Hexachloroethane												1.496	1.487	1.794	1.706	1.743	1.729	2	1.724	1.727	1.711757	8.97	0.09	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SC	Released On	: 10/22/2014 3:23:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.095	0.087	0.075	0.082	0.082	0.076	0.077	0.083										0.082293	8.18	0.082	1
DICHLORODIFLUOROMETHANE	0.453	0.624	0.632	0.659	0.668	0.606	0.654	0.669	0.632	0.634	0.673										0.627682	9.84	0.098	1
CHLOROMETHANE	0.659	0.881	0.846	0.844	0.863	0.797	0.897	0.92	0.866	0.907	0.952										0.857377	9.1	0.091	1
VINYL CHLORIDE	0.815	0.899	0.909	0.909	0.93	0.885	0.975	0.977	0.911	0.944	0.986										0.921627	5.35	0.053	1
1,3-BUTADIENE	0.625	0.584	0.516	0.539	0.534	0.533	0.571	0.575	0.543	0.574	0.605										0.5635	5.97	0.06	1
BROMOMETHANE			0.522	0.423	0.424	0.38	0.339	0.311													0.399915	18.74	0.996	0
CHLOROETHANE		0.187	0.186	0.196	0.183	0.185	0.179	0.181	0.161	0.159	0.124										0.1741	12.13	0.121	1
TRICHLOROFLUOROMETHANE	0.66	0.809	0.628	0.741	0.735	0.7	0.75	0.75	0.685	0.707	0.709										0.71588	6.88	0.069	1
DICHLOROFLUOROMETHANE	1.065	1.227	1.209	1.27	1.205	1.193	1.257	1.273	1.19	1.23	1.249										1.215149	4.76	0.048	1
ETHYL ETHER		0.973	0.817	0.77	0.695	0.649	0.706	0.694	0.652	0.663	0.683										0.730327	13.74	0.137	1
ACROLEIN	0.06	0.082	0.08	0.089	0.092	0.085	0.1	0.101	0.095	0.099	0.107										0.090219	14.55	0.145	1
1,1-DICHLOROETHENE	0.966	0.987	1.01	1.016	1.063	0.989	1.099	1.092	1.045	1.05	1.089										1.036898	4.48	0.045	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.375	0.537	0.466	0.525	0.534	0.484	0.526	0.529	0.503	0.507	0.509										0.49951	9.34	0.093	1
ACETONE				0.237	0.193	0.161	0.171	0.171	0.161	0.163	0.176										0.179126	14.33	0.143	1
IODOMETHANE	1.006	1.016	1.04	1.042	1.045	0.987	1.08	1.08	0.988	1.001	0.97										1.023136	3.62	0.036	1
CARBON DISULFIDE	2.492	2.464	2.434	2.424	2.327	2.164	2.391	2.433	2.284	2.332	2.343										2.371842	3.98	0.04	1
METHYLENE CHLORIDE				1.139	0.897	0.827	0.853	0.863	0.799	0.827	0.872										0.884739	12.12	0.121	1
ACRYLONITRILE	0.138	0.179	0.193	0.189	0.197	0.195	0.226	0.227	0.216	0.223	0.245										0.202509	14.44	0.144	1
n-Hexane		0.967	0.814	0.71	0.646	0.611	0.689	0.686	0.653	0.677	0.71										0.716379	14.42	0.144	1
TRANS-1,2-DICHLOROETHENE	0.529	0.732	0.691	0.718	0.723	0.692	0.777	0.781	0.737	0.763	0.797										0.721717	10.09	0.101	1
METHYL TERT-BUTYL ETHER	1.636	1.811	1.946	1.888	1.977	1.923	2.135	2.179	2.038	2.081	2.281										1.990497	9.08	0.091	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SC	Released On	: 10/22/2014 3:23:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.031	1.392	1.354	1.352	1.351	1.255	1.404	1.42	1.354	1.402	1.5										1.346791	8.96	0.09	1
VINYL ACETATE	0.766	0.821	0.889	0.826	0.927	0.89	1.048	1.076	1.06	1.07	1.11										0.952949	12.91	0.129	1
DI-ISOPROPYL ETHER	1.835	2.174	2.152	2.214	2.257	2.175	2.528	2.533	2.462	2.577	2.809										2.337983	11.57	0.116	1
2,2-Dichloropropane	0.776	0.758	0.805	0.817	0.801	0.768	0.816	0.845	0.742	0.808	0.821										0.796209	3.9	0.039	1
CIS-1,2-DICHLOROETHENE	0.578	0.856	0.743	0.829	0.827	0.789	0.861	0.879	0.824	0.855	0.896										0.812391	10.91	0.109	1
2-BUTANONE (MEK)	0.066	0.062	0.065	0.074	0.074	0.073	0.083	0.083	0.078	0.081	0.086										0.074869	10.79	0.108	1
BROMOCHLOROMETHANE	0.287	0.485	0.42	0.43	0.471	0.435	0.479	0.471	0.438	0.456	0.466										0.439849	12.5	0.125	1
TETRAHYDROFURAN			0.192	0.16	0.184	0.162	0.175	0.177	0.169	0.171	0.187										0.175098	6.22	0.062	1
CHLOROFORM	1.114	1.257	1.264	1.298	1.326	1.257	1.371	1.374	1.31	1.343	1.433										1.304353	6.43	0.064	1
DIBROMOFLUOROMETHANE	0.545	0.541	0.55	0.534	0.536	0.548	0.565	0.567	0.567	0.58	0.597										0.557416	3.56	0.036	1
1,1,1-TRICHLOROETHANE	0.851	0.884	0.917	0.941	0.95	0.932	1.003	1.019	0.956	1.02	1.077										0.959028	6.88	0.069	1
CARBON TETRACHLORIDE	0.635	0.681	0.813	0.81	0.822	0.728	0.834	0.849	0.806	0.817	0.859										0.786846	9.23	0.092	1
1,1-Dichloropropene	0.778	0.916	0.981	0.944	0.978	0.933	1.066	1.048	1.015	1.051	1.11										0.983525	9.29	0.093	1
2,2,4-TRIMETHYLPENTANE	2.579	2.884	2.616	2.879	2.75	2.591	2.855	3.037	2.837	2.959	3.163										2.831808	6.6	0.066	1
HEPTANE	0.846	0.857	0.999	1.043	1.037	0.997	1.127	1.161	1.12	1.194	1.24										1.056536	12.12	0.121	1
BENZENE	2.821	3.253	3.276	3.091	3.145	3.018	3.317	3.283	3.168	3.304	3.479										3.195907	5.51	0.055	1
1,2-DICHLOROETHANE	0.888	0.919	0.992	1.053	1.019	0.963	1.068	1.046	0.993	1.01	1.074										1.002257	6	0.06	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.522	0.502	0.407	0.406	0.399	0.364	0.384	0.373	0.356	0.361	0.362										0.403159	14.09	0.141	1
1,2-DICHLOROPROPANE	0.268	0.261	0.281	0.279	0.284	0.27	0.299	0.3	0.293	0.303	0.307										0.285982	5.46	0.055	1
DIBROMOMETHANE	0.164	0.216	0.233	0.208	0.23	0.206	0.221	0.219	0.208	0.21	0.212										0.211538	8.52	0.085	1
BROMODICHLOROMETHANE	0.513	0.546	0.517	0.541	0.53	0.499	0.547	0.548	0.534	0.543	0.557										0.534039	3.32	0.033	1

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INITIAL CALIBRATION SUMMARY

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Method	: V820J21N	Review Protocol	: SC	Released On	: 10/22/2014 3:23:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.551	0.558	0.551	0.549	0.547	0.542	0.534	0.533	0.524	0.526	0.521										0.539563	2.33	0.023	1
2-CHLOROETHYL VINYL ETHER				0.133	0.147	0.152	0.184	0.187	0.186	0.192	0.21										0.17383	15.32	0.153	1
CIS-1,3-DICHLOROPROPENE	0.426	0.581	0.61	0.57	0.645	0.62	0.679	0.685	0.681	0.694	0.712										0.627568	13.05	0.13	1
4-METHYL-2-PENTANONE (MIBK)	0.089	0.092	0.103	0.099	0.115	0.107	0.127	0.128	0.125	0.125	0.134										0.112945	13.94	0.139	1
TOLUENE-D8	1.27	1.282	1.277	1.268	1.28	1.273	1.269	1.265	1.273	1.272	1.259										1.271646	0.53	0.005	1
TOLUENE	1.501	1.805	1.823	1.85	1.815	1.706	1.802	1.778	1.729	1.777	1.781										1.760761	5.41	0.054	1
TRANS-1,3-DICHLOROPROPENE		0.108	0.092	0.129	0.134	0.129	0.139	0.144	0.137	0.143	0.143										0.129701	13.14	0.131	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.542	1.934	1.992	2.162	2.041	1.846	2.034	1.939	1.897	1.857	1.854										1.918122	8.23	0.082	1
TETRACHLOROETHENE	1.374	1.648	1.52	1.76	1.559	1.444	1.536	1.482	1.457	1.41	1.33										1.501758	8.23	0.082	1
1,3-Dichloropropane	3.209	3.71	4.029	3.826	3.633	3.509	3.772	3.603	3.599	3.568	3.53										3.635215	5.71	0.057	1
2-HEXANONE		0.562	0.569	0.551	0.635	0.619	0.752	0.743	0.737	0.713	0.746										0.662662	12.66	0.127	1
CHLORODIBROMOMETHANE	1.396	1.737	1.823	1.884	1.879	1.833	2.028	1.992	1.969	1.939	1.927										1.855142	9.36	0.094	1
1,2-DIBROMOETHANE	1.404	1.697	1.844	1.971	1.926	1.745	1.946	1.866	1.845	1.803	1.786										1.802877	8.69	0.087	1
CHLOROBENZENE	6.136	6.768	6.675	7.357	6.752	6.521	6.982	6.702	6.564	6.425	6.097										6.634518	5.39	0.054	1
1,1,1,2-TETRACHLOROETHANE	2.058	1.973	1.889	2.035	1.974	1.933	2.101	2.056	2.023	1.985	1.929										1.996037	3.24	0.032	1
ETHYLBENZENE	3.053	3.415	3.487	3.765	3.632	3.619	3.867	3.728	3.721	3.663	3.497										3.586153	6.17	0.062	1
M&P-XYLENE	3.879	4.055	4.191	4.715	4.65	4.494	4.832	4.683	4.578	4.498	4.313										4.44428	6.74	0.067	1
O-XYLENE	3.31	4.084	4.157	4.503	4.413	4.246	4.722	4.62	4.53	4.427	4.355										4.305894	8.86	0.089	1
STYRENE	3.486	3.938	4.223	4.587	5.403	6.168	7.041	7.33	7.399	7.206	7.232										5.819279	26.36	0.999	0
Bromoform		0.786	0.932	1.046	1.039	1.011	1.094	1.062	1.05	1.025	1.014										1.005847	8.75	0.088	1
Isopropylbenzene	7.059999	10.38	10.26	10.96	11.1	10.76	11.89	11.74	11.55	11.32	11.1										10.7393	12.32	0.123	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SC	Released On	: 10/22/2014 3:23:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.92	2.975	2.894	3.045	2.939	3.007	2.967	2.984	3.058	2.936	2.886										2.964638	1.91	0.019	1
Bromobenzene	5.244	5.119	5.252	5.685	5.502	5.282	5.635	5.539	5.484	5.381	5.362										5.407598	3.28	0.033	1
1,1,2,2-TETRACHLOROETHANE	1.863	2.474	2.499	2.381	2.344	2.286	2.546	2.505	2.439	2.37	2.34										2.368067	7.87	0.079	1
1,2,3-TRICHLOROPROPANE	0.701	0.473	0.583	0.739	0.712	0.696	0.753	0.723	0.721	0.678	0.676										0.677747	12.01	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE			0.526	0.527	0.593	0.622	0.729	0.733	0.728	0.71	0.721										0.654363	13.49	0.135	1
n-Propylbenzene	12.74	13.54	13.9	14.22	14.06	13.42	14.5	14.27	14.15	13.96	13.67										13.85793	3.55	0.035	1
4-ETHYLTOLUENE	10.54	10.42	10.69	11.96	11.34	11.15	12.13	11.81	11.6	11.41	11.11										11.28714	5.05	0.051	1
2-Chlorotoluene	2.424	2.495	2.491	2.857	2.837	2.689	2.77	2.665	2.605	2.483	2.302										2.601694	6.87	0.069	1
4-Chlorotoluene	7.616	8.405	8.012	8.868	8.777	8.345	9.245	9.071	8.918	8.815	8.709										8.61652	5.58	0.056	1
1,3,5-Trimethylbenzene	8.32	8.88	9.1	9.74	9.8	9.54	10.32	10.16	9.96	9.71	9.42										9.53996	6.14	0.061	1
tert-Butylbenzene	6.518	7.133	6.859	7.719	7.648	7.613	8.356	8.168	8.044	7.856	7.639										7.595835	7.34	0.073	1
1,2,4-Trimethylbenzene	8.059999	9.17	9.110001	9.9	10.06	9.52	10.66	10.33	10.13	9.95	9.76										9.69529	7.37	0.074	1
sec-Butylbenzene	8.94	11.04	11.24	12.29	12.55	12.08	13.41	13.16	12.86	12.5	12.31										12.03619	10.4	0.104	1
1,3-DICHLOROBENZENE	4.375	5.347	4.928	5.509	5.093	4.788	5.155	4.891	4.782	4.653	4.416										4.903276	7.27	0.073	1
p-Isopropyltoluene	7.3	8.02	8.21	9.58	9.98	9.79	10.73	10.53	10.3	9.92	9.47										9.43874	11.78	0.118	1
DICYCLOPENTADIENE			7.87	9.83	10.07	10.23	12.03	12.16	12.4	12.17	12.51										11.03089	14.55	0.146	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.991	1.922	1.945	1.915	1.945	1.759	1.898	1.83	1.808	1.798	1.797										1.873538	4.12	0.041	1
1,2,3-TRIMETHYLBENZENE	3.617	3.651	3.6	3.775	3.898	3.623	4.114	4.011	4.074	4.092	4.331										3.889581	6.48	0.065	1
1,2-DICHLOROBENZENE	1.569	1.701	1.698	1.737	1.706	1.615	1.814	1.738	1.738	1.743	1.837										1.717805	4.46	0.045	1
n-Butylbenzene	2.944	3.067	3.184	3.429	3.535	3.409	3.909	3.859	3.91	3.946	4.272										3.587661	11.78	0.118	1
1,2-Dibromo-3-chloropropane				0.114	0.129	0.13	0.15	0.148	0.149	0.148	0.17										0.142283	12.17	0.122	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SC	Released On	: 10/22/2014 3:23:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	0.804	0.895	0.976	0.939	0.969	0.947	1.075	1.031	1.027	1.036	1.105										0.982132	8.75	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.467	0.541	0.518	0.508	0.52	0.492	0.55	0.529	0.517	0.523	0.548										0.51938	4.68	0.047	1
Naphthalene	2.228	2.241	2.169	2.191	2.276	2.224	2.709	2.686	2.722	2.755	3.08										2.480156	12.73	0.127	1
1,2,3-Trichlorobenzene	0.666	1.006	0.923	0.914	0.921	0.879	0.98	0.949	0.95	0.952	1.018										0.923586	10.23	0.102	1
1-Methylnaphthalene					1.176	1.186	1.439	1.496	1.559	1.593	1.732										1.454271	14.27	0.143	1
2-Methylnaphthalene			0.889	0.997	1.088	1.08	1.275	1.309	1.327	1.328	1.437										1.192349	15.42	0.154	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.007	0.007	0.007483	9.64	0.096	1
Bromoethane												0.467	0.46	0.535	0.512	0.55	0.525	0.587	0.523	0.529	0.520895	7.5	0.075	1
2-PROPANOL												0.042	0.038	0.035	0.033	0.037	0.034	0.036	0.031	0.035	0.03558	8.88	0.089	1
Methyl Acetate												0.37	0.348	0.41	0.381	0.401	0.399	0.435	0.365	0.409	0.390871	6.91	0.069	1
ACETONITRILE												0.067	0.064	0.076	0.07	0.076	0.076	0.081	0.068	0.076	0.072608	7.76	0.078	1
ALLYL CHLORIDE												0.337	0.321	0.371	0.37	0.376	0.376	0.434	0.376	0.376	0.370906	8.41	0.084	1
tert-BUTYL ALCOHOL												0.118	0.112	0.11	0.107	0.117	0.106	0.114	0.091	0.099	0.108324	7.94	0.079	1
chloroprene												0.554	0.511	0.647	0.638	0.65	0.653	0.74	0.635	0.657	0.631749	10.35	0.103	1
ETHYL TERT-BUTYL ETHER												1.9	1.826	2.198	2.095	2.194	2.171	2.51	2.206	2.265	2.15144	9.31	0.093	1
PROPIONITRILE												0.076	0.074	0.086	0.081	0.086	0.086	0.094	0.078	0.088	0.083308	7.97	0.08	1
Ethyl Acetate												0.495	0.456	0.525	0.503	0.542	0.54	0.608	0.498	0.572	0.526552	8.63	0.086	1
METHACRYLONITRILE												0.237	0.235	0.275	0.262	0.276	0.275	0.304	0.257	0.283	0.267012	8.18	0.082	1
Cyclohexane												0.819	0.757	0.968	0.932	0.951	0.916	1.035	0.877	0.908	0.906915	9.04	0.09	1
tert-butyl formate												0.324	0.291	0.438	0.416	0.429	0.474	0.499	0.46	0.464	0.421701	16.53	0.995	0
ISOBUTANOL												0.028	0.024	0.035	0.032	0.034	0.036	0.038	0.035	0.035	0.033121	13.41	0.134	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SC	Released On	: 10/22/2014 3:23:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.037	0.036	0.04	0.037	0.043	0.043	0.044	0.037	0.045	0.040066	9.32	0.093	1
TERT-AMYL METHYL ETHER												1.784	1.66	2.057	1.908	1.986	1.998	2.288	1.958	1.988	1.958589	8.92	0.089	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.009	0.008197	11.6	0.116	1
Methyl Cyclohexane												1.089	0.7	0.735	0.653	0.667	0.622	0.711	0.58	0.613	0.707766	21.4	0.991	0
-nitropropane												0.067	0.063	0.078	0.071	0.078	0.079	0.086	0.07	0.083	0.074946	10.21	0.102	1
METHYL METHACRYLATE												0.222	0.232	0.286	0.272	0.284	0.283	0.322	0.263	0.292	0.273055	11.26	0.113	1
1,4-DIOXANE												0.003	0.003	0.004	0.003	0.004	0.004	0.004	0.003	0.003	0.003521	9.02	0.09	1
n-octane												0.299	0.282	0.338	0.308	0.329	0.334	0.379	0.3	0.33	0.322119	8.88	0.089	1
3,3-DIMETHYL-1-BUTANOL												0.015	0.016	0.019	0.018	0.02	0.02	0.021	0.017	0.021	0.018549	12.86	0.129	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.811	1.922	2.407	2.452	2.548	2.59				2.288419	14.64	0.146	1
CIS-1,4-DICHLORO-2-BUTENE												0.577	0.605	0.69	0.688	0.715	0.713	0.817	0.69	0.723	0.690953	10.02	0.1	1
Cyclohexanone												0.176	0.196	0.239	0.203	0.253	0.255				0.220357	15	0.15	1
PENTACHLOROETHANE												1.453	1.303	1.492	1.488	1.461	1.45	1.665	1.444	1.424	1.464553	6.39	0.064	1
Hexachloroethane												1.496	1.487	1.794	1.706	1.743	1.729	2	1.724	1.727	1.711757	8.97	0.09	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	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SW846	Released On	: 10/22/2014 3:24:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.095	0.087	0.075	0.082	0.082	0.076	0.077	0.083										0.082293	8.18	0.082	1
DICHLORODIFLUOROMETHANE	0.453	0.624	0.632	0.659	0.668	0.606	0.654	0.669	0.632	0.634	0.673										0.627682	9.84	0.098	1
CHLOROMETHANE	0.659	0.881	0.846	0.844	0.863	0.797	0.897	0.92	0.866	0.907	0.952										0.857377	9.1	0.091	1
VINYL CHLORIDE	0.815	0.899	0.909	0.909	0.93	0.885	0.975	0.977	0.911	0.944	0.986										0.921627	5.35	0.053	1
1,3-BUTADIENE	0.625	0.584	0.516	0.539	0.534	0.533	0.571	0.575	0.543	0.574	0.605										0.5635	5.97	0.06	1
BROMOMETHANE			0.522	0.423	0.424	0.38	0.339	0.311													0.399915	18.74	0.996	0
CHLOROETHANE		0.187	0.186	0.196	0.183	0.185	0.179	0.181	0.161	0.159	0.124										0.1741	12.13	0.121	1
TRICHLOROFLUOROMETHANE	0.66	0.809	0.628	0.741	0.735	0.7	0.75	0.75	0.685	0.707	0.709										0.71588	6.88	0.069	1
DICHLOROFLUOROMETHANE	1.065	1.227	1.209	1.27	1.205	1.193	1.257	1.273	1.19	1.23	1.249										1.215149	4.76	0.048	1
ETHYL ETHER		0.973	0.817	0.77	0.695	0.649	0.706	0.694	0.652	0.663	0.683										0.730327	13.74	0.137	1
ACROLEIN	0.06	0.082	0.08	0.089	0.092	0.085	0.1	0.101	0.095	0.099	0.107										0.090219	14.55	0.145	1
1,1-DICHLOROETHENE	0.966	0.987	1.01	1.016	1.063	0.989	1.099	1.092	1.045	1.05	1.089										1.036898	4.48	0.045	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.375	0.537	0.466	0.525	0.534	0.484	0.526	0.529	0.503	0.507	0.509										0.49951	9.34	0.093	1
ACETONE				0.237	0.193	0.161	0.171	0.171	0.161	0.163	0.176										0.179126	14.33	0.143	1
IODOMETHANE	1.006	1.016	1.04	1.042	1.045	0.987	1.08	1.08	0.988	1.001	0.97										1.023136	3.62	0.036	1
CARBON DISULFIDE	2.492	2.464	2.434	2.424	2.327	2.164	2.391	2.433	2.284	2.332	2.343										2.371842	3.98	0.04	1
METHYLENE CHLORIDE				1.139	0.897	0.827	0.853	0.863	0.799	0.827	0.872										0.884739	12.12	0.121	1
ACRYLONITRILE	0.138	0.179	0.193	0.189	0.197	0.195	0.226	0.227	0.216	0.223	0.245										0.202509	14.44	0.144	1
n-Hexane		0.967	0.814	0.71	0.646	0.611	0.689	0.686	0.653	0.677	0.71										0.716379	14.42	0.144	1
TRANS-1,2-DICHLOROETHENE	0.529	0.732	0.691	0.718	0.723	0.692	0.777	0.781	0.737	0.763	0.797										0.721717	10.09	0.101	1
METHYL TERT-BUTYL ETHER	1.636	1.811	1.946	1.888	1.977	1.923	2.135	2.179	2.038	2.081	2.281										1.990497	9.08	0.091	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SW846	Released On	: 10/22/2014 3:24:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.031	1.392	1.354	1.352	1.351	1.255	1.404	1.42	1.354	1.402	1.5										1.346791	8.96	0.09	1
VINYL ACETATE	0.766	0.821	0.889	0.826	0.927	0.89	1.048	1.076	1.06	1.07	1.11										0.952949	12.91	0.129	1
DI-ISOPROPYL ETHER	1.835	2.174	2.152	2.214	2.257	2.175	2.528	2.533	2.462	2.577	2.809										2.337983	11.57	0.116	1
2,2-Dichloropropane	0.776	0.758	0.805	0.817	0.801	0.768	0.816	0.845	0.742	0.808	0.821										0.796209	3.9	0.039	1
CIS-1,2-DICHLOROETHENE	0.578	0.856	0.743	0.829	0.827	0.789	0.861	0.879	0.824	0.855	0.896										0.812391	10.91	0.109	1
2-BUTANONE (MEK)	0.066	0.062	0.065	0.074	0.074	0.073	0.083	0.083	0.078	0.081	0.086										0.074869	10.79	0.108	1
BROMOCHLOROMETHANE	0.287	0.485	0.42	0.43	0.471	0.435	0.479	0.471	0.438	0.456	0.466										0.439849	12.5	0.125	1
TETRAHYDROFURAN			0.192	0.16	0.184	0.162	0.175	0.177	0.169	0.171	0.187										0.175098	6.22	0.062	1
CHLOROFORM	1.114	1.257	1.264	1.298	1.326	1.257	1.371	1.374	1.31	1.343	1.433										1.304353	6.43	0.064	1
DIBROMOFLUOROMETHANE	0.545	0.541	0.55	0.534	0.536	0.548	0.565	0.567	0.567	0.58	0.597										0.557416	3.56	0.036	1
1,1,1-TRICHLOROETHANE	0.851	0.884	0.917	0.941	0.95	0.932	1.003	1.019	0.956	1.02	1.077										0.959028	6.88	0.069	1
CARBON TETRACHLORIDE	0.635	0.681	0.813	0.81	0.822	0.728	0.834	0.849	0.806	0.817	0.859										0.786846	9.23	0.092	1
1,1-Dichloropropene	0.778	0.916	0.981	0.944	0.978	0.933	1.066	1.048	1.015	1.051	1.11										0.983525	9.29	0.093	1
2,2,4-TRIMETHYLPENTANE	2.579	2.884	2.616	2.879	2.75	2.591	2.855	3.037	2.837	2.959	3.163										2.831808	6.6	0.066	1
HEPTANE	0.846	0.857	0.999	1.043	1.037	0.997	1.127	1.161	1.12	1.194	1.24										1.056536	12.12	0.121	1
BENZENE	2.821	3.253	3.276	3.091	3.145	3.018	3.317	3.283	3.168	3.304	3.479										3.195907	5.51	0.055	1
1,2-DICHLOROETHANE	0.888	0.919	0.992	1.053	1.019	0.963	1.068	1.046	0.993	1.01	1.074										1.002257	6	0.06	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.522	0.502	0.407	0.406	0.399	0.364	0.384	0.373	0.356	0.361	0.362										0.403159	14.09	0.141	1
1,2-DICHLOROPROPANE	0.268	0.261	0.281	0.279	0.284	0.27	0.299	0.3	0.293	0.303	0.307										0.285982	5.46	0.055	1
DIBROMOMETHANE	0.164	0.216	0.233	0.208	0.23	0.206	0.221	0.219	0.208	0.21	0.212										0.211538	8.52	0.085	1
BROMODICHLOROMETHANE	0.513	0.546	0.517	0.541	0.53	0.499	0.547	0.548	0.534	0.543	0.557										0.534039	3.32	0.033	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SW846	Released On	: 10/22/2014 3:24:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.551	0.558	0.551	0.549	0.547	0.542	0.534	0.533	0.524	0.526	0.521										0.539563	2.33	0.023	1
2-CHLOROETHYL VINYL ETHER				0.133	0.147	0.152	0.184	0.187	0.186	0.192	0.21										0.17383	15.32	0.153	1
CIS-1,3-DICHLOROPROPENE	0.426	0.581	0.61	0.57	0.645	0.62	0.679	0.685	0.681	0.694	0.712										0.627568	13.05	0.13	1
4-METHYL-2-PENTANONE (MIBK)	0.089	0.092	0.103	0.099	0.115	0.107	0.127	0.128	0.125	0.125	0.134										0.112945	13.94	0.139	1
TOLUENE-D8	1.27	1.282	1.277	1.268	1.28	1.273	1.269	1.265	1.273	1.272	1.259										1.271646	0.53	0.005	1
TOLUENE	1.501	1.805	1.823	1.85	1.815	1.706	1.802	1.778	1.729	1.777	1.781										1.760761	5.41	0.054	1
TRANS-1,3-DICHLOROPROPENE		0.108	0.092	0.129	0.134	0.129	0.139	0.144	0.137	0.143	0.143										0.129701	13.14	0.131	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.542	1.934	1.992	2.162	2.041	1.846	2.034	1.939	1.897	1.857	1.854										1.918122	8.23	0.082	1
TETRACHLOROETHENE	1.374	1.648	1.52	1.76	1.559	1.444	1.536	1.482	1.457	1.41	1.33										1.501758	8.23	0.082	1
1,3-Dichloropropane	3.209	3.71	4.029	3.826	3.633	3.509	3.772	3.603	3.599	3.568	3.53										3.635215	5.71	0.057	1
2-HEXANONE		0.562	0.569	0.551	0.635	0.619	0.752	0.743	0.737	0.713	0.746										0.662662	12.66	0.127	1
CHLORODIBROMOMETHANE	1.396	1.737	1.823	1.884	1.879	1.833	2.028	1.992	1.969	1.939	1.927										1.855142	9.36	0.094	1
1,2-DIBROMOETHANE	1.404	1.697	1.844	1.971	1.926	1.745	1.946	1.866	1.845	1.803	1.786										1.802877	8.69	0.087	1
CHLOROBENZENE	6.136	6.768	6.675	7.357	6.752	6.521	6.982	6.702	6.564	6.425	6.097										6.634518	5.39	0.054	1
1,1,1,2-TETRACHLOROETHANE	2.058	1.973	1.889	2.035	1.974	1.933	2.101	2.056	2.023	1.985	1.929										1.996037	3.24	0.032	1
ETHYLBENZENE	3.053	3.415	3.487	3.765	3.632	3.619	3.867	3.728	3.721	3.663	3.497										3.586153	6.17	0.062	1
M&P-XYLENE	3.879	4.055	4.191	4.715	4.65	4.494	4.832	4.683	4.578	4.498	4.313										4.44428	6.74	0.067	1
O-XYLENE	3.31	4.084	4.157	4.503	4.413	4.246	4.722	4.62	4.53	4.427	4.355										4.305894	8.86	0.089	1
STYRENE	3.486	3.938	4.223	4.587	5.403	6.168	7.041	7.33	7.399	7.206	7.232										5.819279	26.36	0.999	0
Bromoform		0.786	0.932	1.046	1.039	1.011	1.094	1.062	1.05	1.025	1.014										1.005847	8.75	0.088	1
Isopropylbenzene	7.059999	10.38	10.26	10.96	11.1	10.76	11.89	11.74	11.55	11.32	11.1										10.7393	12.32	0.123	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SW846	Released On	: 10/22/2014 3:24:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.92	2.975	2.894	3.045	2.939	3.007	2.967	2.984	3.058	2.936	2.886										2.964638	1.91	0.019	1
Bromobenzene	5.244	5.119	5.252	5.685	5.502	5.282	5.635	5.539	5.484	5.381	5.362										5.407598	3.28	0.033	1
1,1,2,2-TETRACHLOROETHANE	1.863	2.474	2.499	2.381	2.344	2.286	2.546	2.505	2.439	2.37	2.34										2.368067	7.87	0.079	1
1,2,3-TRICHLOROPROPANE	0.701	0.473	0.583	0.739	0.712	0.696	0.753	0.723	0.721	0.678	0.676										0.677747	12.01	0.12	1
TRANS-1,4-DICHLORO-2-BUTENE			0.526	0.527	0.593	0.622	0.729	0.733	0.728	0.71	0.721										0.654363	13.49	0.135	1
n-Propylbenzene	12.74	13.54	13.9	14.22	14.06	13.42	14.5	14.27	14.15	13.96	13.67										13.85793	3.55	0.035	1
4-ETHYLTOLUENE	10.54	10.42	10.69	11.96	11.34	11.15	12.13	11.81	11.6	11.41	11.11										11.28714	5.05	0.051	1
2-Chlorotoluene	2.424	2.495	2.491	2.857	2.837	2.689	2.77	2.665	2.605	2.483	2.302										2.601694	6.87	0.069	1
4-Chlorotoluene	7.616	8.405	8.012	8.868	8.777	8.345	9.245	9.071	8.918	8.815	8.709										8.61652	5.58	0.056	1
1,3,5-Trimethylbenzene	8.32	8.88	9.1	9.74	9.8	9.54	10.32	10.16	9.96	9.71	9.42										9.53996	6.14	0.061	1
tert-Butylbenzene	6.518	7.133	6.859	7.719	7.648	7.613	8.356	8.168	8.044	7.856	7.639										7.595835	7.34	0.073	1
1,2,4-Trimethylbenzene	8.059999	9.17	9.110001	9.9	10.06	9.52	10.66	10.33	10.13	9.95	9.76										9.69529	7.37	0.074	1
sec-Butylbenzene	8.94	11.04	11.24	12.29	12.55	12.08	13.41	13.16	12.86	12.5	12.31										12.03619	10.4	0.104	1
1,3-DICHLOROBENZENE	4.375	5.347	4.928	5.509	5.093	4.788	5.155	4.891	4.782	4.653	4.416										4.903276	7.27	0.073	1
p-Isopropyltoluene	7.3	8.02	8.21	9.58	9.98	9.79	10.73	10.53	10.3	9.92	9.47										9.43874	11.78	0.118	1
DICYCLOPENTADIENE			7.87	9.83	10.07	10.23	12.03	12.16	12.4	12.17	12.51										11.03089	14.55	0.146	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.991	1.922	1.945	1.915	1.945	1.759	1.898	1.83	1.808	1.798	1.797										1.873538	4.12	0.041	1
1,2,3-TRIMETHYLBENZENE	3.617	3.651	3.6	3.775	3.898	3.623	4.114	4.011	4.074	4.092	4.331										3.889581	6.48	0.065	1
1,2-DICHLOROBENZENE	1.569	1.701	1.698	1.737	1.706	1.615	1.814	1.738	1.738	1.743	1.837										1.717805	4.46	0.045	1
n-Butylbenzene	2.944	3.067	3.184	3.429	3.535	3.409	3.909	3.859	3.91	3.946	4.272										3.587661	11.78	0.118	1
1,2-Dibromo-3-chloropropane				0.114	0.129	0.13	0.15	0.148	0.149	0.148	0.17										0.142283	12.17	0.122	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SW846	Released On	: 10/22/2014 3:24:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	0.804	0.895	0.976	0.939	0.969	0.947	1.075	1.031	1.027	1.036	1.105										0.982132	8.75	0.087	1
HEXACHLORO-1,3-BUTADIENE	0.467	0.541	0.518	0.508	0.52	0.492	0.55	0.529	0.517	0.523	0.548										0.51938	4.68	0.047	1
Naphthalene	2.228	2.241	2.169	2.191	2.276	2.224	2.709	2.686	2.722	2.755	3.08										2.480156	12.73	0.127	1
1,2,3-Trichlorobenzene	0.666	1.006	0.923	0.914	0.921	0.879	0.98	0.949	0.95	0.952	1.018										0.923586	10.23	0.102	1
1-Methylnaphthalene					1.176	1.186	1.439	1.496	1.559	1.593	1.732										1.454271	14.27	0.143	1
2-Methylnaphthalene			0.889	0.997	1.088	1.08	1.275	1.309	1.327	1.328	1.437										1.192349	15.42	0.154	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.007	0.007	0.007483	9.64	0.096	1
Bromoethane												0.467	0.46	0.535	0.512	0.55	0.525	0.587	0.523	0.529	0.520895	7.5	0.075	1
2-PROPANOL												0.042	0.038	0.035	0.033	0.037	0.034	0.036	0.031	0.035	0.03558	8.88	0.089	1
Methyl Acetate												0.37	0.348	0.41	0.381	0.401	0.399	0.435	0.365	0.409	0.390871	6.91	0.069	1
ACETONITRILE												0.067	0.064	0.076	0.07	0.076	0.076	0.081	0.068	0.076	0.072608	7.76	0.078	1
ALLYL CHLORIDE												0.337	0.321	0.371	0.37	0.376	0.376	0.434	0.376	0.376	0.370906	8.41	0.084	1
tert-BUTYL ALCOHOL												0.118	0.112	0.11	0.107	0.117	0.106	0.114	0.091	0.099	0.108324	7.94	0.079	1
chloroprene												0.554	0.511	0.647	0.638	0.65	0.653	0.74	0.635	0.657	0.631749	10.35	0.103	1
ETHYL TERT-BUTYL ETHER												1.9	1.826	2.198	2.095	2.194	2.171	2.51	2.206	2.265	2.15144	9.31	0.093	1
PROPIONITRILE												0.076	0.074	0.086	0.081	0.086	0.086	0.094	0.078	0.088	0.083308	7.97	0.08	1
Ethyl Acetate												0.495	0.456	0.525	0.503	0.542	0.54	0.608	0.498	0.572	0.526552	8.63	0.086	1
METHACRYLONITRILE												0.237	0.235	0.275	0.262	0.276	0.275	0.304	0.257	0.283	0.267012	8.18	0.082	1
Cyclohexane												0.819	0.757	0.968	0.932	0.951	0.916	1.035	0.877	0.908	0.906915	9.04	0.09	1
tert-butyl formate												0.324	0.291	0.438	0.416	0.429	0.474	0.499	0.46	0.464	0.421701	16.53	0.995	0
ISOBUTANOL												0.028	0.024	0.035	0.032	0.034	0.036	0.038	0.035	0.035	0.033121	13.41	0.134	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SW846	Released On	: 10/22/2014 3:24:20 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.037	0.036	0.04	0.037	0.043	0.043	0.044	0.037	0.045	0.040066	9.32	0.093	1
TERT-AMYL METHYL ETHER												1.784	1.66	2.057	1.908	1.986	1.998	2.288	1.958	1.988	1.958589	8.92	0.089	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.009	0.008197	11.6	0.116	1
Methyl Cyclohexane												1.089	0.7	0.735	0.653	0.667	0.622	0.711	0.58	0.613	0.707766	21.4	0.991	0
-nitropropane												0.067	0.063	0.078	0.071	0.078	0.079	0.086	0.07	0.083	0.074946	10.21	0.102	1
METHYL METHACRYLATE												0.222	0.232	0.286	0.272	0.284	0.283	0.322	0.263	0.292	0.273055	11.26	0.113	1
1,4-DIOXANE												0.003	0.003	0.004	0.003	0.004	0.004	0.004	0.003	0.003	0.003521	9.02	0.09	1
n-octane												0.299	0.282	0.338	0.308	0.329	0.334	0.379	0.3	0.33	0.322119	8.88	0.089	1
3,3-DIMETHYL-1-BUTANOL												0.015	0.016	0.019	0.018	0.02	0.02	0.021	0.017	0.021	0.018549	12.86	0.129	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.811	1.922	2.407	2.452	2.548	2.59				2.288419	14.64	0.146	1
CIS-1,4-DICHLORO-2-BUTENE												0.577	0.605	0.69	0.688	0.715	0.713	0.817	0.69	0.723	0.690953	10.02	0.1	1
Cyclohexanone												0.176	0.196	0.239	0.203	0.253	0.255				0.220357	15	0.15	1
PENTACHLOROETHANE												1.453	1.303	1.492	1.488	1.461	1.45	1.665	1.444	1.424	1.464553	6.39	0.064	1
Hexachloroethane												1.496	1.487	1.794	1.706	1.743	1.729	2	1.724	1.727	1.711757	8.97	0.09	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SW846	Released On	: 10/22/2014 3:25:01 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION																					0	0	0	1	
PROPENE				0.095	0.087	0.075	0.082	0.082	0.076	0.077	0.083										0.082293	8.18	0.082	1	
DICHLORODIFLUOROMETHANE	0.453	0.624	0.632	0.659	0.668	0.606	0.654	0.669	0.632	0.634	0.673										0.627682	9.84	0.098	1	0.1
CHLOROMETHANE	0.659	0.881	0.846	0.844	0.863	0.797	0.897	0.92	0.866	0.907	0.952										0.857377	9.1	0.091	1	0.1
VINYL CHLORIDE	0.815	0.899	0.909	0.909	0.93	0.885	0.975	0.977	0.911	0.944	0.986										0.921627	5.35	0.053	1	0.1
1,3-BUTADIENE	0.625	0.584	0.516	0.539	0.534	0.533	0.571	0.575	0.543	0.574	0.605										0.5635	5.97	0.06	1	
BROMOMETHANE			0.522	0.423	0.424	0.38	0.339	0.311													0.399915	18.74	0.996	0	0.1
CHLOROETHANE		0.187	0.186	0.196	0.183	0.185	0.179	0.181	0.161	0.159	0.124										0.1741	12.13	0.121	1	0.1
TRICHLOROFLUOROMETHANE	0.66	0.809	0.628	0.741	0.735	0.7	0.75	0.75	0.685	0.707	0.709										0.71588	6.88	0.069	1	0.1
DICHLOROFLUOROMETHANE	1.065	1.227	1.209	1.27	1.205	1.193	1.257	1.273	1.19	1.23	1.249										1.215149	4.76	0.048	1	
ETHYL ETHER		0.973	0.817	0.77	0.695	0.649	0.706	0.694	0.652	0.663	0.683										0.730327	13.74	0.137	1	
ACROLEIN	0.06	0.082	0.08	0.089	0.092	0.085	0.1	0.101	0.095	0.099	0.107										0.090219	14.55	0.145	1	
1,1-DICHLOROETHENE	0.966	0.987	1.01	1.016	1.063	0.989	1.099	1.092	1.045	1.05	1.089										1.036898	4.48	0.045	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.375	0.537	0.466	0.525	0.534	0.484	0.526	0.529	0.503	0.507	0.509										0.49951	9.34	0.093	1	0.1
ACETONE				0.237	0.193	0.161	0.171	0.171	0.161	0.163	0.176										0.179126	14.33	0.143	1	0.1
IODOMETHANE	1.006	1.016	1.04	1.042	1.045	0.987	1.08	1.08	0.988	1.001	0.97										1.023136	3.62	0.036	1	
CARBON DISULFIDE	2.492	2.464	2.434	2.424	2.327	2.164	2.391	2.433	2.284	2.332	2.343										2.371842	3.98	0.04	1	0.1
METHYLENE CHLORIDE				1.139	0.897	0.827	0.853	0.863	0.799	0.827	0.872										0.884739	12.12	0.121	1	0.1
ACRYLONITRILE	0.138	0.179	0.193	0.189	0.197	0.195	0.226	0.227	0.216	0.223	0.245										0.202509	14.44	0.144	1	
n-Hexane		0.967	0.814	0.71	0.646	0.611	0.689	0.686	0.653	0.677	0.71										0.716379	14.42	0.144	1	
TRANS-1,2-DICHLOROETHENE	0.529	0.732	0.691	0.718	0.723	0.692	0.777	0.781	0.737	0.763	0.797										0.721717	10.09	0.101	1	0.1
METHYL TERT-BUTYL ETHER	1.636	1.811	1.946	1.888	1.977	1.923	2.135	2.179	2.038	2.081	2.281										1.990497	9.08	0.091	1	0.1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820J21N	Review Protocol	: SW846	Released On	: 10/22/2014 3:25:01 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,1-DICHLOROETHANE	1.031	1.392	1.354	1.352	1.351	1.255	1.404	1.42	1.354	1.402	1.5										1.346791	8.96	0.09	1	0.2
VINYL ACETATE	0.766	0.821	0.889	0.826	0.927	0.89	1.048	1.076	1.06	1.07	1.11										0.952949	12.91	0.129	1	
DI-ISOPROPYL ETHER	1.835	2.174	2.152	2.214	2.257	2.175	2.528	2.533	2.462	2.577	2.809										2.337983	11.57	0.116	1	
2,2-Dichloropropane	0.776	0.758	0.805	0.817	0.801	0.768	0.816	0.845	0.742	0.808	0.821										0.796209	3.9	0.039	1	
CIS-1,2-DICHLOROETHENE	0.578	0.856	0.743	0.829	0.827	0.789	0.861	0.879	0.824	0.855	0.896										0.812391	10.91	0.109	1	0.1
2-BUTANONE (MEK)	0.066	0.062	0.065	0.074	0.074	0.073	0.083	0.083	0.078	0.081	0.086										0.074869	10.79	0.108	1	0.1
BROMOCHLOROMETHANE	0.287	0.485	0.42	0.43	0.471	0.435	0.479	0.471	0.438	0.456	0.466										0.439849	12.5	0.125	1	
TETRAHYDROFURAN			0.192	0.16	0.184	0.162	0.175	0.177	0.169	0.171	0.187										0.175098	6.22	0.062	1	
CHLOROFORM	1.114	1.257	1.264	1.298	1.326	1.257	1.371	1.374	1.31	1.343	1.433										1.304353	6.43	0.064	1	0.2
DIBROMOFLUOROMETHANE	0.545	0.541	0.55	0.534	0.536	0.548	0.565	0.567	0.567	0.58	0.597										0.557416	3.56	0.036	1	
1,1,1-TRICHLOROETHANE	0.851	0.884	0.917	0.941	0.95	0.932	1.003	1.019	0.956	1.02	1.077										0.959028	6.88	0.069	1	0.1
CARBON TETRACHLORIDE	0.635	0.681	0.813	0.81	0.822	0.728	0.834	0.849	0.806	0.817	0.859										0.786846	9.23	0.092	1	0.1
1,1-Dichloropropene	0.778	0.916	0.981	0.944	0.978	0.933	1.066	1.048	1.015	1.051	1.11										0.983525	9.29	0.093	1	
2,2,4-TRIMETHYLPENTANE	2.579	2.884	2.616	2.879	2.75	2.591	2.855	3.037	2.837	2.959	3.163										2.831808	6.6	0.066	1	
HEPTANE	0.846	0.857	0.999	1.043	1.037	0.997	1.127	1.161	1.12	1.194	1.24										1.056536	12.12	0.121	1	
BENZENE	2.821	3.253	3.276	3.091	3.145	3.018	3.317	3.283	3.168	3.304	3.479										3.195907	5.51	0.055	1	0.5
1,2-DICHLOROETHANE	0.888	0.919	0.992	1.053	1.019	0.963	1.068	1.046	0.993	1.01	1.074										1.002257	6	0.06	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.522	0.502	0.407	0.406	0.399	0.364	0.384	0.373	0.356	0.361	0.362										0.403159	14.09	0.141	1	0.2
1,2-DICHLOROPROPANE	0.268	0.261	0.281	0.279	0.284	0.27	0.299	0.3	0.293	0.303	0.307										0.285982	5.46	0.055	1	0.1
DIBROMOMETHANE	0.164	0.216	0.233	0.208	0.23	0.206	0.221	0.219	0.208	0.21	0.212										0.211538	8.52	0.085	1	
BROMODICHLOROMETHANE	0.513	0.546	0.517	0.541	0.53	0.499	0.547	0.548	0.534	0.543	0.557										0.534039	3.32	0.033	1	0.2

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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

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a,a,a-Trifluorotoluene	0.551	0.558	0.551	0.549	0.547	0.542	0.534	0.533	0.524	0.526	0.521										0.539563	2.33	0.023	1	
2-CHLOROETHYL VINYL ETHER				0.133	0.147	0.152	0.184	0.187	0.186	0.192	0.21										0.17383	15.32	0.153	1	
CIS-1,3-DICHLOROPROPENE	0.426	0.581	0.61	0.57	0.645	0.62	0.679	0.685	0.681	0.694	0.712										0.627568	13.05	0.13	1	0.2
4-METHYL-2-PENTANONE (MIBK)	0.089	0.092	0.103	0.099	0.115	0.107	0.127	0.128	0.125	0.125	0.134										0.112945	13.94	0.139	1	0.1
TOLUENE-D8	1.27	1.282	1.277	1.268	1.28	1.273	1.269	1.265	1.273	1.272	1.259										1.271646	0.53	0.005	1	
TOLUENE	1.501	1.805	1.823	1.85	1.815	1.706	1.802	1.778	1.729	1.777	1.781										1.760761	5.41	0.054	1	0.4
TRANS-1,3-DICHLOROPROPENE		0.108	0.092	0.129	0.134	0.129	0.139	0.144	0.137	0.143	0.143										0.129701	13.14	0.131	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	1.542	1.934	1.992	2.162	2.041	1.846	2.034	1.939	1.897	1.857	1.854										1.918122	8.23	0.082	1	0.1
TETRACHLOROETHENE	1.374	1.648	1.52	1.76	1.559	1.444	1.536	1.482	1.457	1.41	1.33										1.501758	8.23	0.082	1	0.2
1,3-Dichloropropane	3.209	3.71	4.029	3.826	3.633	3.509	3.772	3.603	3.599	3.568	3.53										3.635215	5.71	0.057	1	
2-HEXANONE		0.562	0.569	0.551	0.635	0.619	0.752	0.743	0.737	0.713	0.746										0.662662	12.66	0.127	1	0.1
CHLORODIBROMOMETHANE	1.396	1.737	1.823	1.884	1.879	1.833	2.028	1.992	1.969	1.939	1.927										1.855142	9.36	0.094	1	0.1
1,2-DIBROMOETHANE	1.404	1.697	1.844	1.971	1.926	1.745	1.946	1.866	1.845	1.803	1.786										1.802877	8.69	0.087	1	0.1
CHLOROBENZENE	6.136	6.768	6.675	7.357	6.752	6.521	6.982	6.702	6.564	6.425	6.097										6.634518	5.39	0.054	1	0.5
1,1,1,2-TETRACHLOROETHANE	2.058	1.973	1.889	2.035	1.974	1.933	2.101	2.056	2.023	1.985	1.929										1.996037	3.24	0.032	1	
ETHYLBENZENE	3.053	3.415	3.487	3.765	3.632	3.619	3.867	3.728	3.721	3.663	3.497										3.586153	6.17	0.062	1	0.1
M&P-XYLENE	3.879	4.055	4.191	4.715	4.65	4.494	4.832	4.683	4.578	4.498	4.313										4.44428	6.74	0.067	1	0.1
O-XYLENE	3.31	4.084	4.157	4.503	4.413	4.246	4.722	4.62	4.53	4.427	4.355										4.305894	8.86	0.089	1	0.3
STYRENE	3.486	3.938	4.223	4.587	5.403	6.168	7.041	7.33	7.399	7.206	7.232										5.819279	26.36	0.999	0	0.3
Bromoform		0.786	0.932	1.046	1.039	1.011	1.094	1.062	1.05	1.025	1.014										1.005847	8.75	0.088	1	0.1
Isopropylbenzene	7.059999	10.38	10.26	10.96	11.1	10.76	11.89	11.74	11.55	11.32	11.1										10.7393	12.32	0.123	1	0.1

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
4-BROMOFLUOROBENZENE	2.92	2.975	2.894	3.045	2.939	3.007	2.967	2.984	3.058	2.936	2.886										2.964638	1.91	0.019	1	
Bromobenzene	5.244	5.119	5.252	5.685	5.502	5.282	5.635	5.539	5.484	5.381	5.362										5.407598	3.28	0.033	1	
1,1,2,2-TETRACHLOROETHANE	1.863	2.474	2.499	2.381	2.344	2.286	2.546	2.505	2.439	2.37	2.34										2.368067	7.87	0.079	1	0.3
1,2,3-TRICHLOROPROPANE	0.701	0.473	0.583	0.739	0.712	0.696	0.753	0.723	0.721	0.678	0.676										0.677747	12.01	0.12	1	
TRANS-1,4-DICHLORO-2-BUTENE			0.526	0.527	0.593	0.622	0.729	0.733	0.728	0.71	0.721										0.654363	13.49	0.135	1	
n-Propylbenzene	12.74	13.54	13.9	14.22	14.06	13.42	14.5	14.27	14.15	13.96	13.67										13.85793	3.55	0.035	1	
4-ETHYLTOLUENE	10.54	10.42	10.69	11.96	11.34	11.15	12.13	11.81	11.6	11.41	11.11										11.28714	5.05	0.051	1	
2-Chlorotoluene	2.424	2.495	2.491	2.857	2.837	2.689	2.77	2.665	2.605	2.483	2.302										2.601694	6.87	0.069	1	
4-Chlorotoluene	7.616	8.405	8.012	8.868	8.777	8.345	9.245	9.071	8.918	8.815	8.709										8.61652	5.58	0.056	1	
1,3,5-Trimethylbenzene	8.32	8.88	9.1	9.74	9.8	9.54	10.32	10.16	9.96	9.71	9.42										9.53996	6.14	0.061	1	
tert-Butylbenzene	6.518	7.133	6.859	7.719	7.648	7.613	8.356	8.168	8.044	7.856	7.639										7.595835	7.34	0.073	1	
1,2,4-Trimethylbenzene	8.059999	9.17	9.110001	9.9	10.06	9.52	10.66	10.33	10.13	9.95	9.76										9.69529	7.37	0.074	1	
sec-Butylbenzene	8.94	11.04	11.24	12.29	12.55	12.08	13.41	13.16	12.86	12.5	12.31										12.03619	10.4	0.104	1	
1,3-DICHLOROBENZENE	4.375	5.347	4.928	5.509	5.093	4.788	5.155	4.891	4.782	4.653	4.416										4.903276	7.27	0.073	1	0.6
p-Isopropyltoluene	7.3	8.02	8.21	9.58	9.98	9.79	10.73	10.53	10.3	9.92	9.47										9.43874	11.78	0.118	1	
DICYCLOPENTADIENE			7.87	9.83	10.07	10.23	12.03	12.16	12.4	12.17	12.51										11.03089	14.55	0.146	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.991	1.922	1.945	1.915	1.945	1.759	1.898	1.83	1.808	1.798	1.797										1.873538	4.12	0.041	1	
1,2,3-TRIMETHYLBENZENE	3.617	3.651	3.6	3.775	3.898	3.623	4.114	4.011	4.074	4.092	4.331										3.889581	6.48	0.065	1	
1,2-DICHLOROBENZENE	1.569	1.701	1.698	1.737	1.706	1.615	1.814	1.738	1.738	1.743	1.837										1.717805	4.46	0.045	1	0.4
n-Butylbenzene	2.944	3.067	3.184	3.429	3.535	3.409	3.909	3.859	3.91	3.946	4.272										3.587661	11.78	0.118	1	
1,2-Dibromo-3-chloropropane				0.114	0.129	0.13	0.15	0.148	0.149	0.148	0.17										0.142283	12.17	0.122	1	0.05

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,2,4-Trichlorobenzene	0.804	0.895	0.976	0.939	0.969	0.947	1.075	1.031	1.027	1.036	1.105										0.982132	8.75	0.087	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.467	0.541	0.518	0.508	0.52	0.492	0.55	0.529	0.517	0.523	0.548										0.51938	4.68	0.047	1	
Naphthalene	2.228	2.241	2.169	2.191	2.276	2.224	2.709	2.686	2.722	2.755	3.08										2.480156	12.73	0.127	1	
1,2,3-Trichlorobenzene	0.666	1.006	0.923	0.914	0.921	0.879	0.98	0.949	0.95	0.952	1.018										0.923586	10.23	0.102	1	
1-Methylnaphthalene					1.176	1.186	1.439	1.496	1.559	1.593	1.732										1.454271	14.27	0.143	1	
2-Methylnaphthalene			0.889	0.997	1.088	1.08	1.275	1.309	1.327	1.328	1.437										1.192349	15.42	0.154	1	
4BP9-PENTAFLUOROBENZENE																									
ETHANOL												0.007	0.007	0.008	0.007	0.009	0.008	0.008	0.007	0.007	0.007483	9.64	0.096	1	
Bromoethane												0.467	0.46	0.535	0.512	0.55	0.525	0.587	0.523	0.529	0.520895	7.5	0.075	1	
2-PROPANOL												0.042	0.038	0.035	0.033	0.037	0.034	0.036	0.031	0.035	0.03558	8.88	0.089	1	
Methyl Acetate												0.37	0.348	0.41	0.381	0.401	0.399	0.435	0.365	0.409	0.390871	6.91	0.069	1	0.1
ACETONITRILE												0.067	0.064	0.076	0.07	0.076	0.076	0.081	0.068	0.076	0.072608	7.76	0.078	1	
ALLYL CHLORIDE												0.337	0.321	0.371	0.37	0.376	0.376	0.434	0.376	0.376	0.370906	8.41	0.084	1	
tert-BUTYL ALCOHOL												0.118	0.112	0.11	0.107	0.117	0.106	0.114	0.091	0.099	0.108324	7.94	0.079	1	
chloroprene												0.554	0.511	0.647	0.638	0.65	0.653	0.74	0.635	0.657	0.631749	10.35	0.103	1	
ETHYL TERT-BUTYL ETHER												1.9	1.826	2.198	2.095	2.194	2.171	2.51	2.206	2.265	2.15144	9.31	0.093	1	
PROPIONITRILE												0.076	0.074	0.086	0.081	0.086	0.086	0.094	0.078	0.088	0.083308	7.97	0.08	1	
Ethyl Acetate												0.495	0.456	0.525	0.503	0.542	0.54	0.608	0.498	0.572	0.526552	8.63	0.086	1	
METHACRYLONITRILE												0.237	0.235	0.275	0.262	0.276	0.275	0.304	0.257	0.283	0.267012	8.18	0.082	1	
Cyclohexane												0.819	0.757	0.968	0.932	0.951	0.916	1.035	0.877	0.908	0.906915	9.04	0.09	1	0.1
tert-butyl formate												0.324	0.291	0.438	0.416	0.429	0.474	0.499	0.46	0.464	0.421701	16.53	0.995	0	
ISOBUTANOL												0.028	0.024	0.035	0.032	0.034	0.036	0.038	0.035	0.035	0.033121	13.41	0.134	1	

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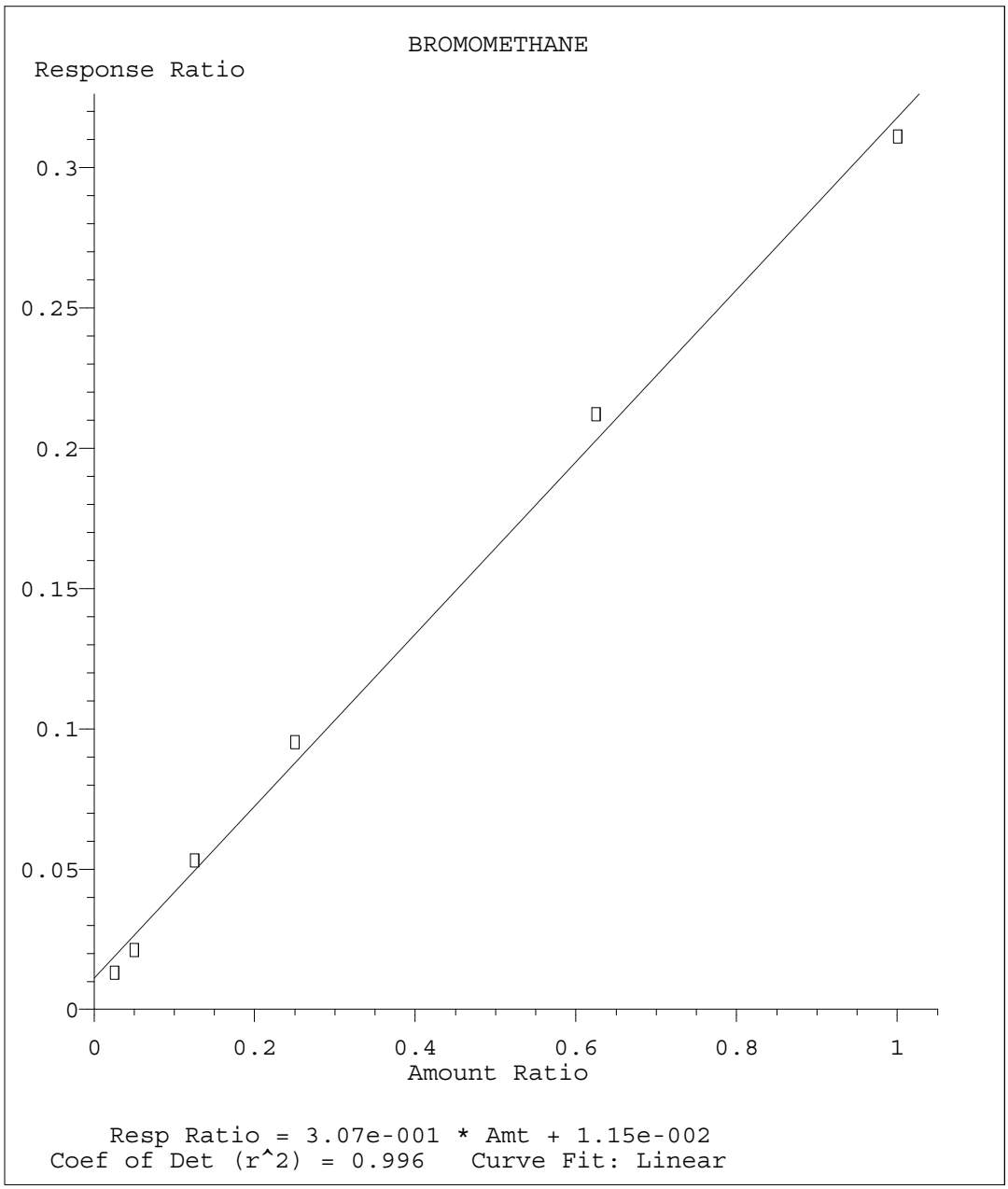
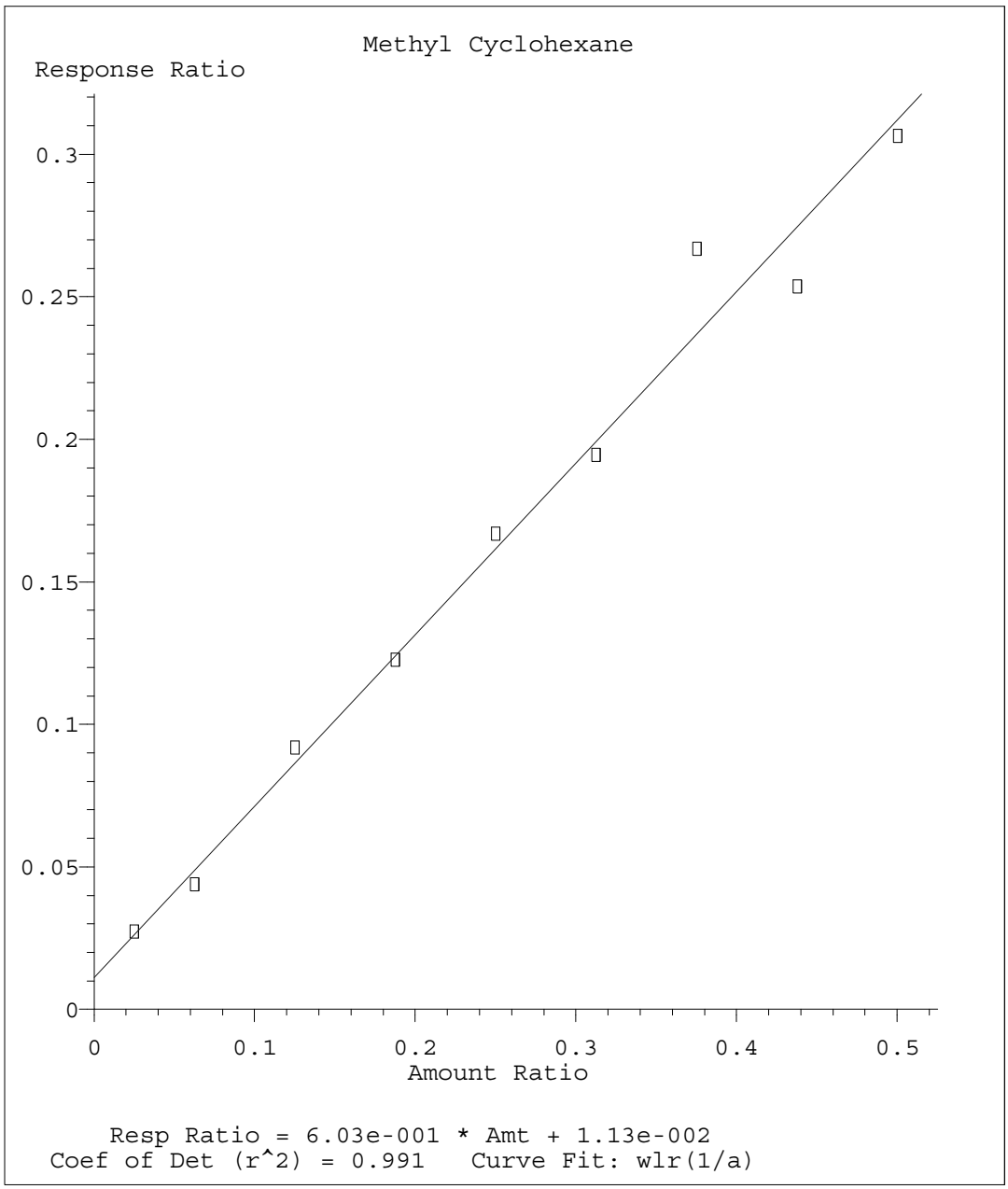
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820J21N -- ICal Updated Time: Wed Oct 22 15:05:08 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
-Amyl Alcohol												0.037	0.036	0.04	0.037	0.043	0.043	0.044	0.037	0.045	0.040006	9.32	0.093	1	
TERT-AMYL METHYL ETHER												1.784	1.66	2.057	1.908	1.986	1.998	2.288	1.958	1.988	1.958589	8.92	0.089	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.008	0.009	0.008197	11.6	0.116	1	
Methyl Cyclohexane												1.089	0.7	0.735	0.653	0.667	0.622	0.711	0.58	0.613	0.707766	21.4	0.991	0	0.1
-nitropropane												0.067	0.063	0.078	0.071	0.078	0.079	0.086	0.07	0.083	0.074946	10.21	0.102	1	
METHYL METHACRYLATE												0.222	0.232	0.286	0.272	0.284	0.283	0.322	0.263	0.292	0.273055	11.26	0.113	1	
1,4-DIOXANE												0.003	0.003	0.004	0.003	0.004	0.004	0.004	0.003	0.003	0.003521	9.02	0.09	1	
n-octane												0.299	0.282	0.338	0.308	0.329	0.334	0.379	0.3	0.33	0.322119	8.88	0.089	1	
3,3-DIMETHYL-1-BUTANOL												0.015	0.016	0.019	0.018	0.02	0.02	0.021	0.017	0.021	0.018549	12.86	0.129	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												1.811	1.922	2.407	2.452	2.548	2.59				2.288419	14.64	0.146	1	
CIS-1,4-DICHLORO-2-BUTENE												0.577	0.605	0.69	0.688	0.715	0.713	0.817	0.69	0.723	0.690953	10.02	0.1	1	
Cyclohexanone												0.176	0.196	0.239	0.203	0.253	0.255				0.220357	15	0.15	1	
PENTACHLOROETHANE												1.453	1.303	1.492	1.488	1.461	1.45	1.665	1.444	1.424	1.464553	6.39	0.064	1	
Hexachloroethane												1.496	1.487	1.794	1.706	1.743	1.729	2	1.724	1.727	1.711757	8.97	0.09	1	
AP9-1,4-DICHLOROBENZENE-D4																									

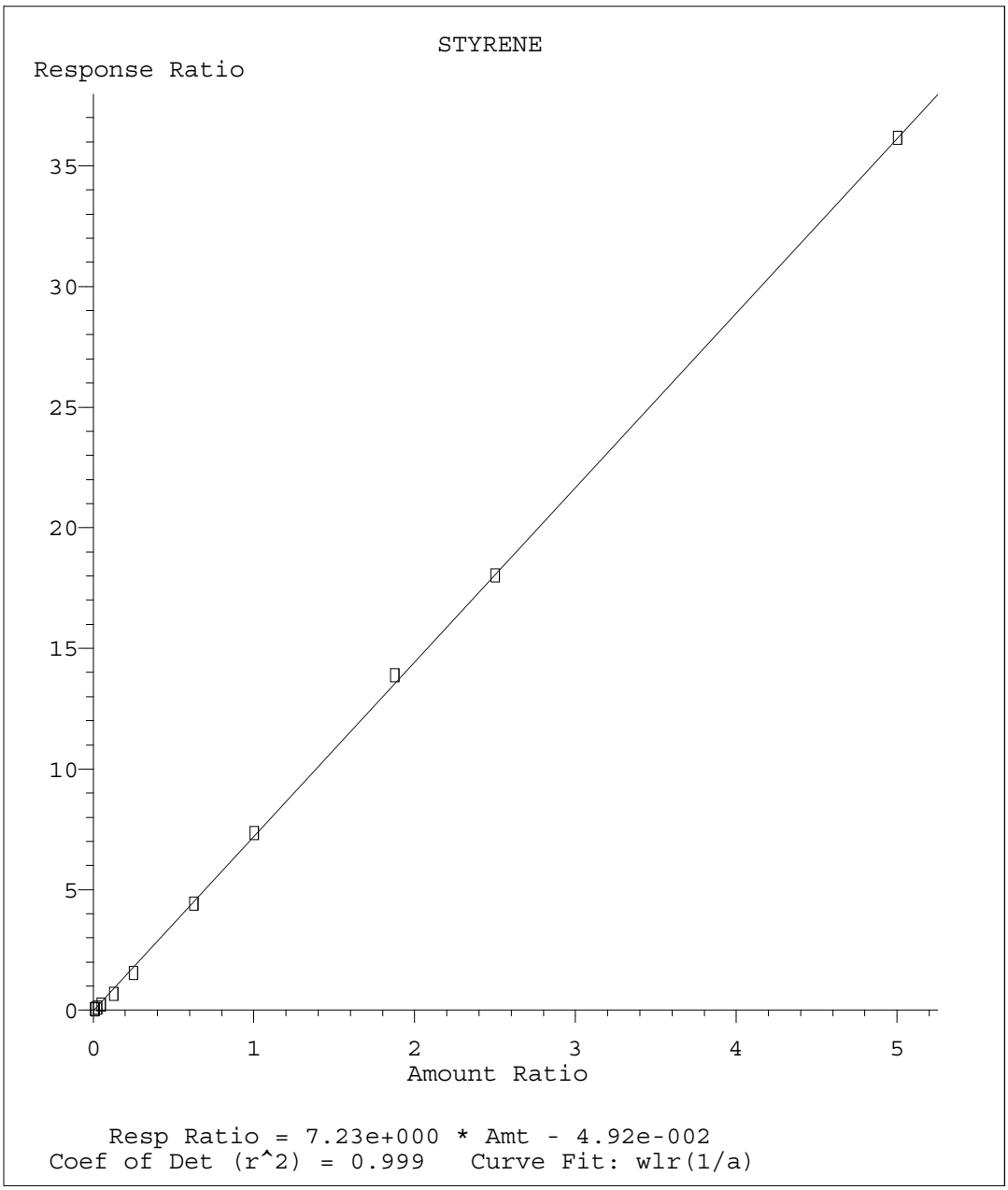
PDF Generated On: 10/27/2014 - By: Amy Green



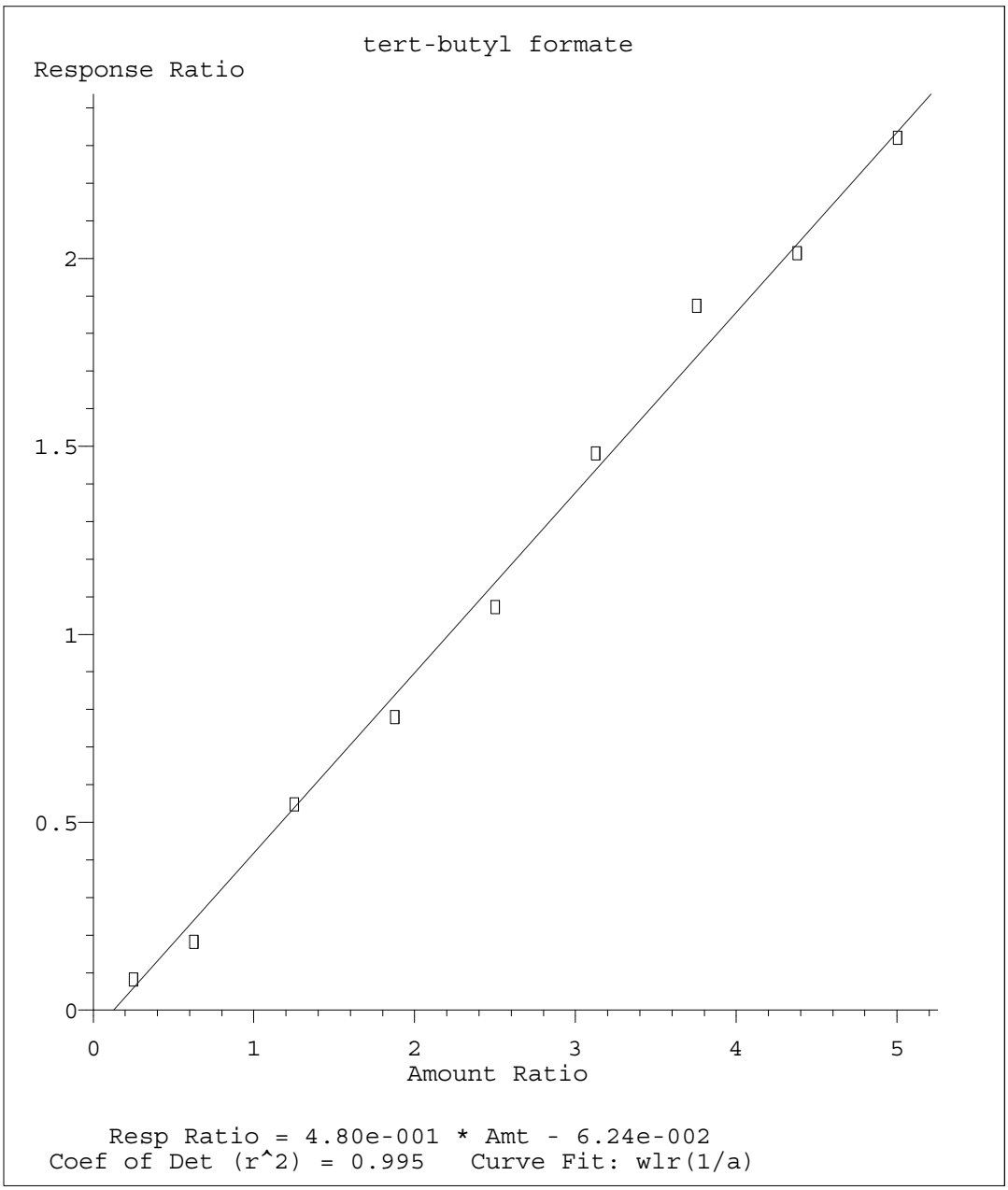
Method Name: C:\MSDchem\1\methods\V820J21N.M



Method Name: C:\MSDchem\1\methods\V820J21N.M



Method Name: C:\MSDchem\1\methods\V820J21N.M



Method Name: C:\MSDchem\1\methods\V820J21N.M

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 05B.D
Acq On : 21 Oct 2014 10:27 pm
Operator : 644
Sample : RL VMS 1 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:10:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
	Internal Standards						
1)	8260-PENTAFLUOROBENZENE	4.344	168	390687	40.0000000 ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.672	114	736137	40.0000000 ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.839	79	119021	40.0000000 ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.222	152	326160	40.0000000 ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	4.344	168	390687	40.0000000 ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.672	114	736137	40.0000000 ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.839	79	119021	40.0000000 ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	326160	40.0000000 ppb		0.00
	System Monitoring Compounds						
33)	DIBROMOFLUOROMETHANE	4.110	111	220213	40.4477663 ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 101.12%			
46)	a,a,a-Trifluorotoluene	5.039	146	415865	41.8804573 ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 104.70%			
50)	TOLUENE-D8	5.502	98	963485	41.1699203 ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 102.92%			
68)	4-BROMOFLUOROBENZENE	7.380	95	353073	40.0248037 ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 100.06%			
	Target Compounds						Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC -6790857		No Calib		
3)	PROPENE	1.669	41	1375	1.7106956 ppb		95
4)	DICHLORODIFLUOROMETHANE	1.724	85	6171	1.0065773 ppb		96
5)	CHLOROMETHANE	1.881	50	8264	0.9868469 ppb		98
6)	VINYL CHLORIDE	1.952	62	8874	0.9858145 ppb		94
7)	1,3-BUTADIENE	1.965	39	5039	0.9155492 ppb		96
8)	BROMOMETHANE	2.216	94	5099	0.2043915 ppb	#	86
9)	CHLOROETHANE	2.312	66	1819	1.0697070 ppb	#	84
10)	TRICHLOROFLUOROMETHANE	2.405	101	6134	0.8772723 ppb	#	86
11)	DICHLOROFLUOROMETHANE	2.444	67	11808	0.9948964 ppb		98
12)	ETHYL ETHER	2.592	59	7978	1.1184269 ppb		94
13)	ACROLEIN	2.955	56	3923	4.4519655 ppb	#	78
14)	1,1-DICHLOROETHENE	2.740	61	9865	0.9740746 ppb		95
15)	1,1,2-TRICHLOROTRIFLUO...	2.766	101	4550	0.9326059 ppb		95
16)	ACETONE	3.129	43	14311	8.1798147 ppb		97
17)	IODOMETHANE	2.846	142	50804	5.0838857 ppb		99
18)	CARBON DISULFIDE	2.775	76	23778	1.0264092 ppb	#	61
19)	METHYLENE CHLORIDE	3.103	84	12449	1.4406228 ppb		91
20)	ACRYLONITRILE	3.592	53	9421	4.7630411 ppb		97
21)	n-Hexane	3.219	56	7953	1.1366307 ppb	#	87
22)	TRANS-1,2-DICHLOROETHENE	3.196	96	6746	0.9569969 ppb		96
23)	METHYL TERT-BUTYL ETHER	3.245	73	19007	0.9776493 ppb	#	100
24)	1,1-DICHLOROETHANE	3.557	63	13222	1.0051435 ppb		98
25)	VINYL ACETATE	3.672	43	43403	4.6631685 ppb		97
26)	DI-ISOPROPYL ETHER	3.444	45	21019	0.9204534 ppb		97
27)	2,2-Dichloropropane	3.923	77	7864	1.0112247 ppb		95
28)	CIS-1,2-DICHLOROETHENE	3.862	96	7256	0.9144563 ppb		96
29)	2-BUTANONE (MEK)	4.174	72	3172	4.3377191 ppb		89
30)	BROMOCHLOROMETHANE	3.978	130	4098	0.9538915 ppb		97
31)	TETRAHYDROFURAN	4.106	42	1872	1.0946015 ppb	#	81
32)	CHLOROFORM	4.000	83	12349	0.9693209 ppb		99
34)	1,1,1-TRICHLOROETHANE	4.135	97	8953	0.9558028 ppb		89
35)	CARBON TETRACHLORIDE	4.097	117	7943	1.0335362 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 05B.D
Acq On : 21 Oct 2014 10:27 pm
Operator : 644
Sample : RL VMS 1 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:10:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.200	75	9579	0.9971618 ppb		97
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	25547	0.9236495 ppb		98
38) HEPTANE	4.270	43	9755	0.9453091 ppb	#	95
39) BENZENE	4.344	78	32001	1.0251808 ppb	#	80
40) 1,2-DICHLOROETHANE	4.463	62	9687	0.9895577 ppb	#	93
42) TRICHLOROETHENE	4.669	130	7483	1.0085588 ppb		97
43) 1,2-DICHLOROPROPANE	4.987	62	5171	0.9825117 ppb		97
44) DIBROMOMETHANE	4.936	93	4285	1.1006846 ppb		93
45) BROMODICHLOROMETHANE	5.010	83	9511	0.9677314 ppb		92
47) 2-CHLOROETHYL VINYL ETHER	5.325	63	11860	3.7073253 ppb		97
48) CIS-1,3-DICHLOROPROPENE	5.386	75	11224	0.9718247 ppb	#	94
49) 4-METHYL-2-PENTANONE (...	5.753	58	9439	4.5410833 ppb		98
51) TOLUENE	5.534	91	33552	1.0354269 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.791	110	1690	0.7080180 ppb	#	93
54) 1,1,2-TRICHLOROETHANE	5.901	97	5926	1.0382973 ppb		95
55) TETRACHLOROETHENE	5.782	164	4522	1.0119684 ppb		95
56) 1,3-Dichloropropane	6.087	76	11987	1.1081965 ppb		98
57) 2-HEXANONE	6.293	58	8469	4.2951298 ppb		100
58) CHLORODIBROMOMETHANE	6.029	129	5423	0.9824239 ppb		96
59) 1,2-DIBROMOETHANE	6.206	107	5486	1.0226481 ppb		100
60) CHLOROBENZENE	6.540	112	19861	1.0060699 ppb		94
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	5620	0.9462462 ppb	#	88
62) ETHYLBENZENE	6.534	106	10377	0.9724772 ppb		94
63) M&P-XYLENE	6.627	106	24942	1.8861067 ppb		97
64) O-XYLENE	6.936	106	12369	0.9654009 ppb		96
65) STYRENE	6.974	104	12566	0.8561702 ppb		96
66) Bromoform	7.019	173	2773	0.9265190 ppb		97
67) Isopropylbenzene	7.151	105	30532	0.9554673 ppb		98
69) Bromobenzene	7.470	77	15627	0.9711977 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	7437	1.0554560 ppb		96
71) 1,2,3-TRICHLOROPROPANE	7.630	110	1736	0.8608325 ppb	#	83
72) TRANS-1,4-DICHLORO-2-B...	7.650	53	1566	0.8042836 ppb	#	84
73) n-Propylbenzene	7.454	91	41359	1.0030166 ppb		96
74) 4-ETHYLTOLUENE	7.531	105	31819	0.9474119 ppb		97
75) 2-Chlorotoluene	7.592	126	7411	0.9573198 ppb		98
76) 4-Chlorotoluene	7.714	91	23839	0.9298064 ppb		98
77) 1,3,5-Trimethylbenzene	7.589	105	27089	0.9542954 ppb		100
78) tert-Butylbenzene	7.836	119	20410	0.9030335 ppb		97
79) 1,2,4-Trimethylbenzene	7.888	105	27109	0.9396996 ppb		97
80) sec-Butylbenzene	7.971	105	33457	0.9341883 ppb		98
81) 1,3-DICHLOROBENZENE	8.167	146	14663	1.0050158 ppb		93
82) p-Isopropyltoluene	8.074	119	24424	0.8696398 ppb		97
83) DICYCLOPENTADIENE	8.077	66	23417	0.7134395 ppb		100
85) 1,4-DICHLOROBENZENE	8.235	146	15858	1.0380427 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	29351	0.9254423 ppb		94
87) 1,2-DICHLOROBENZENE	8.569	146	13849	0.9887212 ppb		97
88) n-Butylbenzene	8.405	91	25962	0.8874749 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.212	157	755	0.6507657 ppb	#	65
90) 1,2,4-Trichlorobenzene	9.756	180	7955	0.9933441 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	4222	0.9969240 ppb		95
92) Naphthalene	10.035	128	17690	0.8747382 ppb		98
93) 1,2,3-Trichlorobenzene	10.187	180	7530	0.9998775 ppb		98
94) 1-Methylnaphthalene	10.900	142	8459	0.7133503 ppb		96
95) 2-Methylnaphthalene	11.035	142	7252	0.7459051 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 05B.D
Acq On : 21 Oct 2014 10:27 pm
Operator : 644
Sample : RL VMS 1 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:10:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

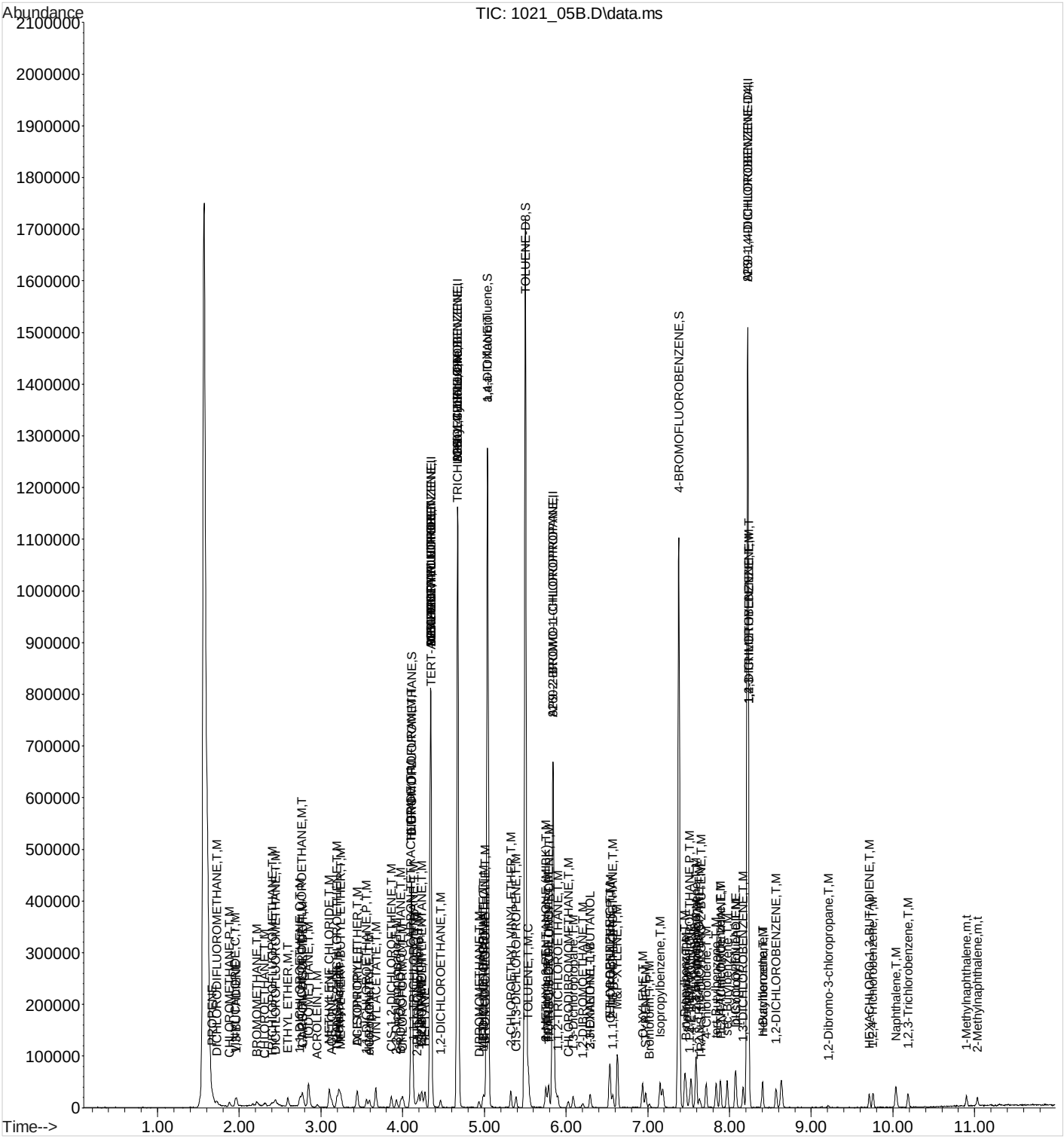
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.219	43	12454	3.2621686 ppb #	50
101)	ACETONITRILE	3.441	41	3866	5.4513876 ppb #	27
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.592	53	9421	1.5268047 ppb #	23
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.344	67	1599	0.6131257 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.232	41	6609	20.4299876 ppb #	4
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.348	73	814	0.0425512 ppb #	1
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.672	83	10625	0.2066551 ppb #	39
117)	2-nitropropane	5.753	43	22058	15.9925251 ppb #	42
118)	METHYL METHACRYLATE	4.984	41	4299	0.8554988 ppb #	10
119)	1,4-DIOXANE	5.039	88	5828	89.9304093 ppb #	26
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.296	57	3265	9.5646208 ppb #	35
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	7.894	117	845	0.1939046 ppb #	15
127)	Hexachloroethane	8.405	117	784	0.1539254 ppb #	11

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 05B.D
Acq On : 21 Oct 2014 10:27 pm
Operator : 644
Sample : RL VMS 1 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:10:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 06B.D
Acq On : 21 Oct 2014 10:45 pm
Operator : 644
Sample : RL VMS 2 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:11:37 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	4.341	168	391638	40.0000000 ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.672	114	732735	40.0000000 ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.840	79	114238	40.0000000 ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.222	152	325515	40.0000000 ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	4.341	168	391638	40.0000000 ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.672	114	732735	40.0000000 ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.840	79	114238	40.0000000 ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	325515	40.0000000 ppb		0.00
System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	4.110	111	219469	40.2132256 ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 100.53%			
46)	a,a,a-Trifluorotoluene	5.039	146	422134	42.7091657 ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 106.77%			
50)	TOLUENE-D8	5.502	98	975916	41.8947127 ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 104.74%			
68)	4-BROMOFLUOROBENZENE	7.380	95	365254	43.1392597 ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 107.85%			
Target Compounds							Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC -6550085		No Calib		
3)	PROPENE	1.669	41	1870	2.3208966 ppb	#	89
4)	DICHLORODIFLUOROMETHANE	1.724	85	12896	2.0984119 ppb		99
5)	CHLOROMETHANE	1.878	50	16522	1.9681863 ppb		97
6)	VINYL CHLORIDE	1.955	62	17800	1.9726040 ppb		98
7)	1,3-BUTADIENE	1.968	39	10559	1.9138340 ppb		97
8)	BROMOMETHANE	2.219	94	8289	1.2631308 ppb		93
9)	CHLOROETHANE	2.309	66	3835	2.2497883 ppb	#	81
10)	TRICHLOROFLUOROMETHANE	2.409	101	14507	2.0697238 ppb	#	93
11)	DICHLOROFLUOROMETHANE	2.441	67	24864	2.0898573 ppb		98
12)	ETHYL ETHER	2.595	59	15082	2.1091946 ppb		94
13)	ACROLEIN	2.959	56	8749	9.9045794 ppb		94
14)	1,1-DICHLOROETHENE	2.743	61	19887	1.9588832 ppb		98
15)	1,1,2-TRICHLOROTRIFLUO...	2.766	101	10271	2.1001176 ppb		96
16)	ACETONE	3.129	43	23203	13.2300584 ppb		97
17)	IODOMETHANE	2.849	142	102008	10.1830116 ppb		99
18)	CARBON DISULFIDE	2.779	76	47476	2.0443887 ppb	#	92
19)	METHYLENE CHLORIDE	3.103	84	22308	2.5752570 ppb		100
20)	ACRYLONITRILE	3.595	53	18549	9.3551761 ppb		99
21)	n-Hexane	3.219	56	13902	1.9820281 ppb		89
22)	TRANS-1,2-DICHLOROETHENE	3.197	96	14061	1.9898693 ppb		99
23)	METHYL TERT-BUTYL ETHER	3.242	73	36966	1.8967763 ppb	#	100
24)	1,1-DICHLOROETHANE	3.557	63	26469	2.0073013 ppb		96
25)	VINYL ACETATE	3.669	43	80867	8.6671602 ppb		99
26)	DI-ISOPROPYL ETHER	3.444	45	43357	1.8940574 ppb		98
27)	2,2-Dichloropropane	3.923	77	16000	2.0524296 ppb		97
28)	CIS-1,2-DICHLOROETHENE	3.862	96	16233	2.0408385 ppb		94
29)	2-BUTANONE (MEK)	4.174	72	7228	9.8603091 ppb		94
30)	BROMOCHLOROMETHANE	3.981	130	8421	1.9553964 ppb		91
31)	TETRAHYDROFURAN	4.103	42	3128	1.8245723 ppb	#	93
32)	CHLOROFORM	4.000	83	25427	1.9910174 ppb		98
34)	1,1,1-TRICHLOROETHANE	4.135	97	18427	1.9624494 ppb		96
35)	CARBON TETRACHLORIDE	4.097	117	15867	2.0595867 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 06B.D
Acq On : 21 Oct 2014 10:45 pm
Operator : 644
Sample : RL VMS 2 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:11:37 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	18477	1.9187617 ppb		93
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	56378	2.0333919 ppb		98
38) HEPTANE	4.271	43	20420	1.9739967 ppb	#	99
39) BENZENE	4.344	78	60521	1.9341366 ppb	#	89
40) 1,2-DICHLOROETHANE	4.463	62	20618	2.1010795 ppb		97
42) TRICHLOROETHENE	4.669	130	14865	2.0128068 ppb		97
43) 1,2-DICHLOROPROPANE	4.984	62	10214	1.9497132 ppb		98
44) DIBROMOMETHANE	4.933	93	7631	1.9692698 ppb		96
45) BROMODICHLOROMETHANE	5.010	83	19818	2.0258169 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	24272	7.6224272 ppb	#	98
48) CIS-1,3-DICHLOROPROPENE	5.386	75	20869	1.8153218 ppb		96
49) 4-METHYL-2-PENTANONE (...	5.753	58	18067	8.7323521 ppb		89
51) TOLUENE	5.534	91	67782	2.1014889 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	4712	1.9832369 ppb		93
54) 1,1,2-TRICHLOROETHANE	5.901	97	12351	2.2546297 ppb		90
55) TETRACHLOROETHENE	5.782	164	10053	2.3439323 ppb		94
56) 1,3-Dichloropropane	6.087	76	21853	2.1048946 ppb		93
57) 2-HEXANONE	6.296	58	15733	8.3132091 ppb		87
58) CHLORODIBROMOMETHANE	6.026	129	10762	2.0312591 ppb		98
59) 1,2-DIBROMOETHANE	6.203	107	11259	2.1866699 ppb		89
60) CHLOROBENZENE	6.541	112	42024	2.2178769 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	11625	2.0392655 ppb	#	96
62) ETHYLBENZENE	6.531	106	21505	2.0997137 ppb		96
63) M&P-XYLENE	6.627	106	53863	4.2436400 ppb		96
64) O-XYLENE	6.936	106	25722	2.0916588 ppb		95
65) STYRENE	6.975	104	26201	1.5407815 ppb		96
66) Bromoform	7.020	173	5975	2.0799619 ppb	#	92
67) Isopropylbenzene	7.151	105	62595	2.0408601 ppb		98
69) Bromobenzene	7.470	77	32473	2.1026522 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.512	83	13600	2.0109176 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.627	110	4219	2.1796736 ppb		91
72) TRANS-1,4-DICHLORO-2-B...	7.643	53	3008	1.6095642 ppb	#	90
73) n-Propylbenzene	7.454	91	81200	2.0516681 ppb		99
74) 4-ETHYLTOLUENE	7.531	105	68312	2.1191531 ppb		100
75) 2-Chlorotoluene	7.592	126	16320	2.1964099 ppb		89
76) 4-Chlorotoluene	7.714	91	50653	2.0583663 ppb		98
77) 1,3,5-Trimethylbenzene	7.589	105	55619	2.0413902 ppb		94
78) tert-Butylbenzene	7.836	119	44091	2.0324684 ppb		99
79) 1,2,4-Trimethylbenzene	7.891	105	56552	2.0423799 ppb		100
80) sec-Butylbenzene	7.971	105	70200	2.0421965 ppb		99
81) 1,3-DICHLOROBENZENE	8.167	146	31468	2.2471508 ppb		97
82) p-Isopropyltoluene	8.071	119	54731	2.0303410 ppb		98
83) DICYCLOPENTADIENE	8.081	66	56156	1.7825228 ppb		96
85) 1,4-DICHLOROBENZENE	8.235	146	31166	2.0441255 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	61433	1.9408316 ppb		99
87) 1,2-DICHLOROBENZENE	8.569	146	28268	2.0221353 ppb		94
88) n-Butylbenzene	8.405	91	55808	1.9114991 ppb		97
89) 1,2-Dibromo-3-chloropr...	9.212	157	1855	1.6020693 ppb		95
90) 1,2,4-Trichlorobenzene	9.756	180	15287	1.9126764 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	8274	1.9575779 ppb		96
92) Naphthalene	10.032	128	35654	1.7665185 ppb		98
93) 1,2,3-Trichlorobenzene	10.187	180	14881	1.9799018 ppb		96
94) 1-Methylnaphthalene	10.900	142	17549	1.4828455 ppb		98
95) 2-Methylnaphthalene	11.036	142	16221	1.6717183 ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 06B.D
Acq On : 21 Oct 2014 10:45 pm
Operator : 644
Sample : RL VMS 2 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:11:37 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

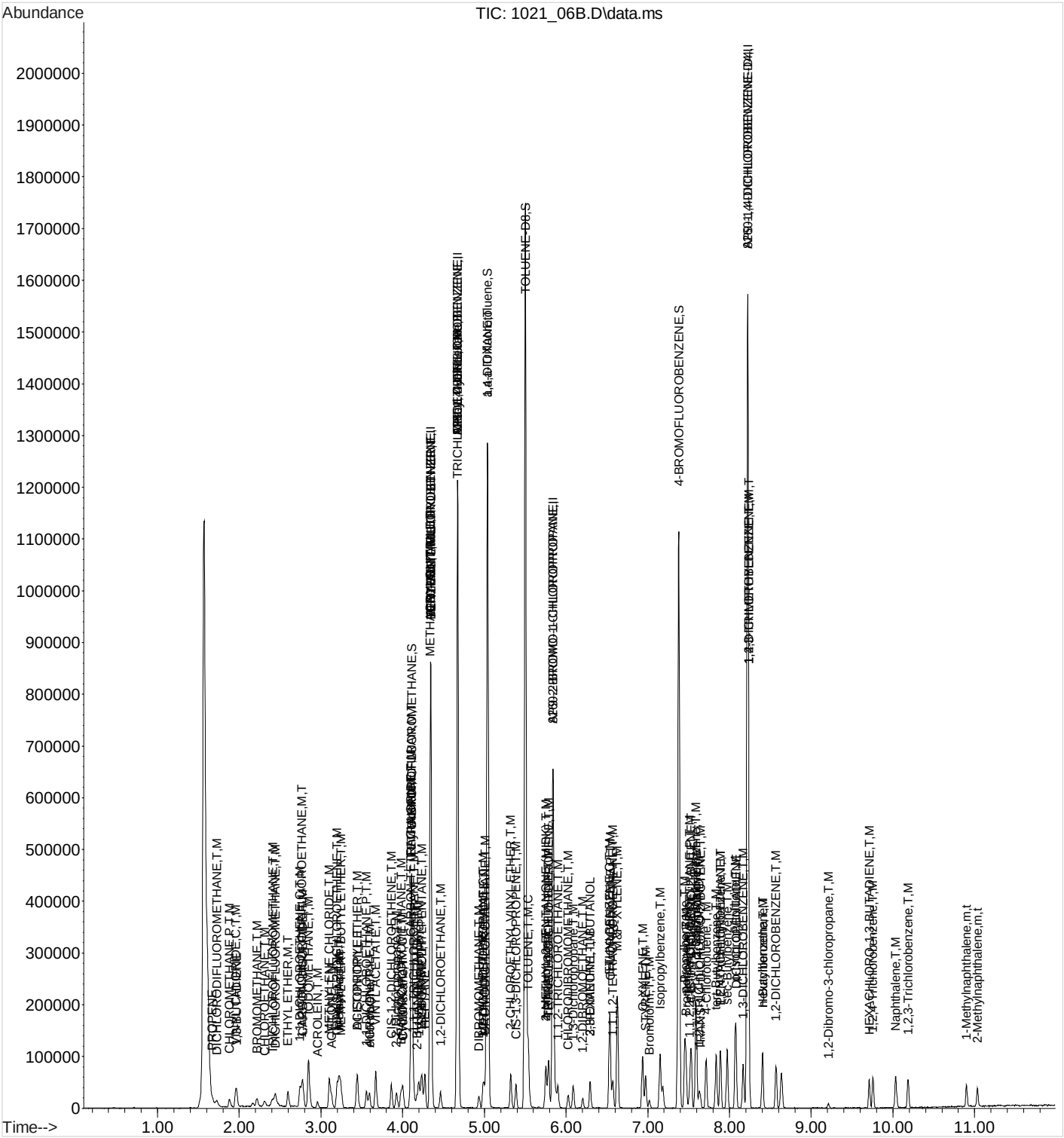
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.222	43	21838	5.7062993 ppb #	65
101)	ACETONITRILE	3.444	41	8455	11.8933162 ppb #	28
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.595	53	18549	2.9988250 ppb #	23
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.103	43	883	0.1712753 ppb #	67
108)	METHACRYLONITRILE	4.338	67	1172	0.4483042 ppb #	1
109)	Cyclohexane	4.004	84	892	0.1004554 ppb #	6
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.232	41	13375	41.2449023 ppb #	4
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.344	73	1327	0.0691995 ppb #	1
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.672	83	9695	0.1268759 ppb #	45
117)	2-nitropropane	5.753	43	46154	33.6180071 ppb #	43
118)	METHYL METHACRYLATE	4.988	41	8952	1.7897145 ppb #	10
119)	1,4-DIOXANE	5.039	88	5764	89.3557922 ppb #	26
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	5591	16.4545410 ppb #	32
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	7.528	53	1195	0.6055761 ppb #	4
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	7.888	117	2110	0.5044601 ppb #	15
127)	Hexachloroethane	8.405	117	1394	0.2851478 ppb #	11

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 06B.D
Acq On : 21 Oct 2014 10:45 pm
Operator : 644
Sample : RL VMS 2 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:11:37 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 17B.D
Acq On : 22 Oct 2014 2:06 am
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:12:48 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.344	168	355318	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	687884	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	106931	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	296961	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.344	168	355318	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	687884	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	106931	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	296961	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	190901	38.5541866 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.39%		
46) a,a,a-Trifluorotoluene	5.039	146	377745	40.7100099 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.78%		
50) TOLUENE-D8	5.502	98	872467	39.8958311 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.74%		
68) 4-BROMOFLUOROBENZENE	7.380	95	320335	40.4193255 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.05%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -5331857		No Calib	
3) PROPENE	0.000		0	N.D.	
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.894	50	1063	0.1395740 ppb #	49
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.955	39	1650	0.3296348 ppb #	40
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.132	43	3797	2.3863043 ppb #	84
17) IODOMETHANE	2.849	142	516	0.0567753 ppb #	44
18) CARBON DISULFIDE	2.778	76	2672	0.1268217 ppb #	70
19) METHYLENE CHLORIDE	3.106	84	4387	0.5582069 ppb	89
20) ACRYLONITRILE	3.589	53	1238	0.6882080 ppb #	62
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.669	43	3757	0.4438276 ppb #	71
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.097	42	584	0.3754696 ppb #	27
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 17B.D
Acq On : 22 Oct 2014 2:06 am
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:12:48 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 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	4.251	57	22611	0.8988740 ppb #	1
38) HEPTANE	4.251	43	5503	0.5863512 ppb #	15
39) BENZENE	4.348	78	1231	0.0433617 ppb #	1
40) 1,2-DICHLOROETHANE	4.370	62	3115	0.3498820 ppb #	74
42) TRICHLOROETHENE	4.672	130	1349	0.1945722 ppb #	59
43) 1,2-DICHLOROPROPANE	5.039	62	6819	1.3865237 ppb #	10
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.849	58	598	0.3078776 ppb #	65
51) TOLUENE	5.534	91	1982	0.0654558 ppb	95
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	5.778	164	528	0.1315195 ppb #	1
56) 1,3-Dichloropropane	6.087	76	620	0.0637996 ppb #	43
57) 2-HEXANONE	6.293	58	615	0.3471676 ppb #	55
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	6.537	112	1272	0.0717190 ppb #	76
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.627	106	1332	0.1121138 ppb	81
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.148	105	617	0.0214915 ppb #	54
69) Bromobenzene	7.473	77	1714	0.1185667 ppb	92
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.454	91	2214	0.0597635 ppb #	59
74) 4-ETHYLTOLUENE	7.531	105	2684	0.0889518 ppb #	46
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.714	91	3150	0.1367524 ppb #	86
77) 1,3,5-Trimethylbenzene	7.589	105	1215	0.0476416 ppb #	29
78) tert-Butylbenzene	7.836	119	548	0.0269874 ppb #	62
79) 1,2,4-Trimethylbenzene	7.891	105	2177	0.0839951 ppb	99
80) sec-Butylbenzene	7.974	105	1764	0.0548234 ppb #	58
81) 1,3-DICHLOROBENZENE	8.167	146	2266	0.1728741 ppb	87
82) p-Isopropyltoluene	8.074	119	1552	0.0615084 ppb #	47
83) DICYCLOPENTADIENE	8.081	66	2202	0.0746729 ppb #	70
85) 1,4-DICHLOROBENZENE	8.232	146	2720	0.1955541 ppb #	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	2080	0.0720313 ppb #	66
87) 1,2-DICHLOROBENZENE	8.569	146	1601	0.1255388 ppb	91
88) n-Butylbenzene	8.405	91	2774	0.1041491 ppb #	86
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.756	180	2322	0.3184586 ppb #	89
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.035	128	7711	0.4187861 ppb #	91
93) 1,2,3-Trichlorobenzene	10.187	180	2564	0.3739393 ppb #	72
94) 1-Methylnaphthalene	10.900	142	9659	0.8946379 ppb	99
95) 2-Methylnaphthalene	11.032	142	8484	0.9584241 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 17B.D
Acq On : 22 Oct 2014 2:06 am
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:12:48 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

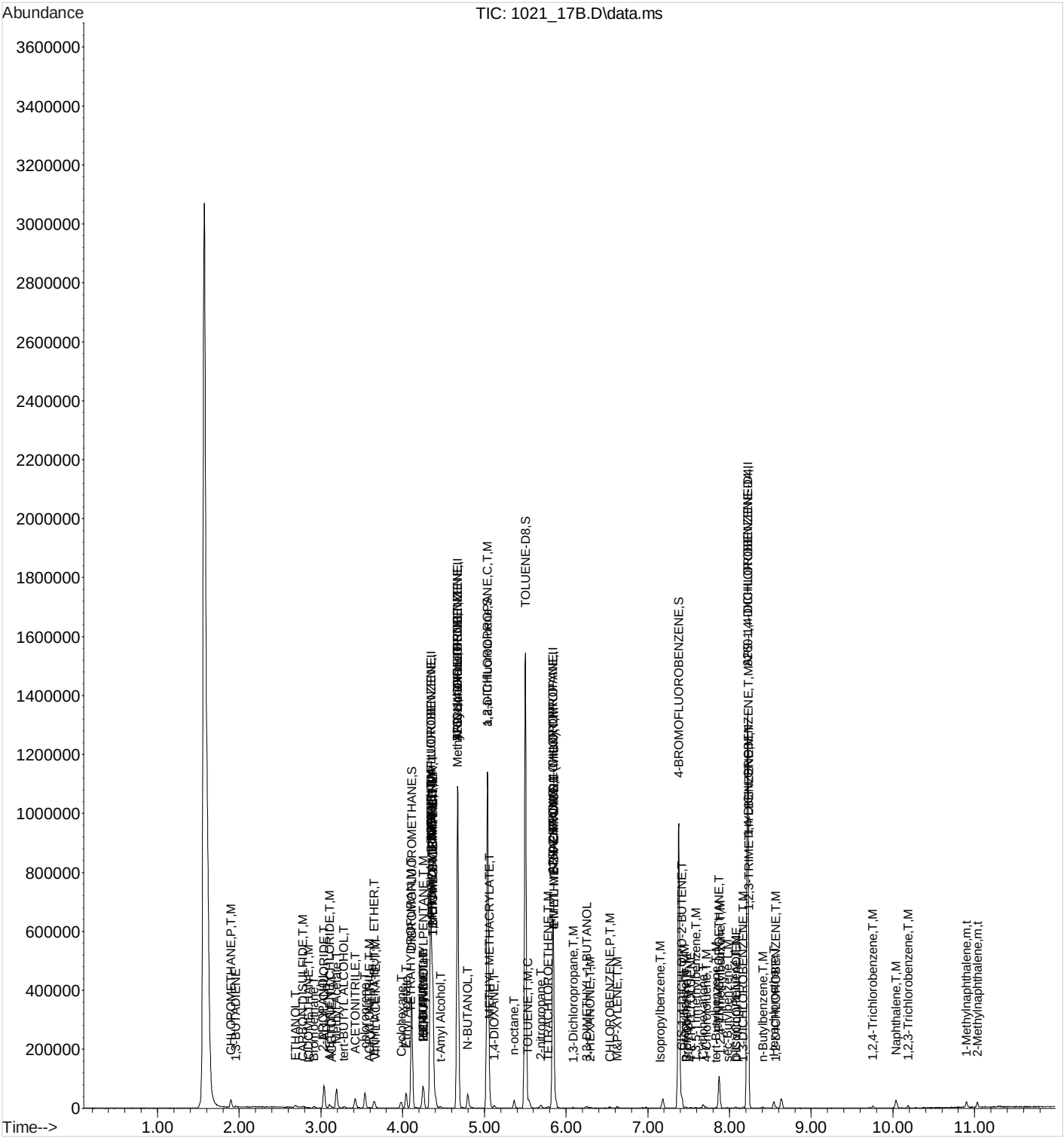
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.685	45	5792	87.1381075 ppb	#	78
98)	Bromoethane	2.914	108	4150	0.8968926 ppb		94
99)	2-PROPANOL	3.026	45	1854	5.8660242 ppb	#	54
100)	Methyl Acetate	3.190	43	65762	18.9401891 ppb	#	98
101)	ACETONITRILE	3.418	41	29795	46.1955728 ppb	#	88
102)	ALLYL CHLORIDE	3.039	76	14947	4.5366251 ppb		93
103)	tert-BUTYL ALCOHOL	3.280	59	5254	5.4601963 ppb	#	81
104)	chloroprene	3.537	53	24592	4.3821990 ppb		96
105)	ETHYL TERT-BUTYL ETHER	3.650	59	16879	0.8832026 ppb		96
106)	PROPIONITRILE	4.360	54	33576	45.3715892 ppb	#	73
107)	Ethyl Acetate	4.042	43	43985	9.4038608 ppb		99
108)	METHACRYLONITRILE	4.367	67	105395	44.4357779 ppb		99
109)	Cyclohexane	3.984	84	7278	0.9034170 ppb		90
110)	tert-butyl formate	4.248	59	28807	11.9642619 ppb		96
111)	ISOBUTANOL	4.251	41	24527	83.3659176 ppb	#	99
112)	t-Amyl Alcohol	4.466	59	1624	4.5629765 ppb		86
113)	TERT-AMYL METHYL ETHER	4.370	73	15846	0.9107918 ppb	#	20
115)	N-BUTANOL	4.794	56	23803	168.8586784 ppb		97
116)	Methyl Cyclohexane	4.669	83	18725	1.0552568 ppb	#	72
117)	2-nitropropane	5.692	43	5756	4.4659631 ppb	#	80
118)	METHYL METHACRYLATE	5.061	41	19108	4.0692152 ppb	#	10
119)	1,4-DIOXANE	5.122	88	5415	89.4188185 ppb		98
120)	n-octane	5.364	85	5148	0.9293249 ppb		90
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	2556	8.0128840 ppb	#	79
123)	ETHYL METHACRYLATE	5.849	69	24203	3.9563066 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	7713	4.1757177 ppb	#	31
125)	Cyclohexanone	7.679	55	4709	7.9938912 ppb		93
126)	PENTACHLOROETHANE	7.872	117	19424	4.9612373 ppb		95
127)	Hexachloroethane	8.544	117	3998	0.8736893 ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 17B.D
Acq On : 22 Oct 2014 2:06 am
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:12:48 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 15a.D
Acq On : 22 Oct 2014 1:29 am
Operator : 644
Sample : SSCV VMS 25 ppb 14J20241
Misc : water IS/SURR14I25028
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:52:20 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:50:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	399650	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	755836	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	125499	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	327264	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	399650	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	755836	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	125499	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	327264	40.0000000 ppb	# 0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	212731	38.1971987 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 95.49%		
46) a,a,a-Trifluorotoluene	5.039	146	415811	40.7836501 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.96%		
50) TOLUENE-D8	5.502	98	985680	41.0206074 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.55%		
68) 4-BROMOFLUOROBENZENE	7.380	95	371341	39.9227947 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.81%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3198650	No Calib	
3) PROPENE	1.672	41	22600	27.4870184 ppb	97
4) DICHLORODIFLUOROMETHANE	1.724	85	155383	24.7767435 ppb	99
5) CHLOROMETHANE	1.881	50	228635	26.6901681 ppb	99
6) VINYL CHLORIDE	1.955	62	242408	26.3252116 ppb	100
7) 1,3-BUTADIENE	1.968	39	147874	26.2650541 ppb	99
8) BROMOMETHANE	2.216	94	113322	35.5020840 ppb	100
9) CHLOROETHANE	2.312	66	47388	27.2426706 ppb	98
10) TRICHLOROFLUOROMETHANE	2.405	101	197366	27.5938392 ppb	98
11) DICHLOROFLUOROMETHANE	2.441	67	334245	27.5305926 ppb	99
12) ETHYL ETHER	2.595	59	185949	25.4833527 ppb	99
13) ACROLEIN	2.958	56	128403	142.4484731 ppb	99
14) 1,1-DICHLOROETHENE	2.743	61	285451	27.5534415 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.762	101	138386	27.7286063 ppb	100
16) ACETONE	3.129	43	259453	144.9710632 ppb	99
17) IODOMETHANE	2.846	142	1407137	137.6522749 ppb	99
18) CARBON DISULFIDE	2.778	76	622991	26.2891250 ppb	100
19) METHYLENE CHLORIDE	3.103	84	229306	25.9406212 ppb	99
20) ACRYLONITRILE	3.592	53	290784	143.7166141 ppb	100
21) n-Hexane	3.222	56	177786	24.8390564 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.196	96	204354	28.3397812 ppb	99
23) METHYL TERT-BUTYL ETHER	3.245	73	572447	28.7841850 ppb #	100
24) 1,1-DICHLOROETHANE	3.560	63	375145	27.8791294 ppb	99
25) VINYL ACETATE	3.669	43	1356177	142.4383306 ppb	100
26) DI-ISOPROPYL ETHER	3.444	45	694599	29.7353511 ppb	99
27) 2,2-Dichloropropane	3.926	77	222919	28.0220808 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.862	96	226485	27.9032179 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	108424	144.9448600 ppb	96
30) BROMOCHLOROMETHANE	3.978	130	125036	28.4518966 ppb	100
31) TETRAHYDROFURAN	4.103	42	45524	26.0219445 ppb	96
32) CHLOROFORM	4.003	83	366364	28.1123876 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.135	97	276130	28.8179067 ppb	97
35) CARBON TETRACHLORIDE	4.097	117	214975	27.3450185 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 15a.D
Acq On : 22 Oct 2014 1:29 am
Operator : 644
Sample : SSCV VMS 25 ppb 14J20241
Misc : water IS/SURR14I25028
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:52:20 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:50:21 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.196	75	276822	28.1705415 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.232	57	776625	27.4490798 ppb		98
38)	HEPTANE	4.270	43	298054	28.2351862 ppb	#	99
39)	BENZENE	4.344	78	878205	27.5031203 ppb		99
40)	1,2-DICHLOROETHANE	4.463	62	278521	27.8137082 ppb		98
42)	TRICHLOROETHENE	4.669	130	186682	24.5052414 ppb		98
43)	1,2-DICHLOROPROPANE	4.987	62	155306	28.7397169 ppb		99
44)	DIBROMOMETHANE	4.933	93	110710	27.6968246 ppb		99
45)	BROMODICHLOROMETHANE	5.010	83	279192	27.6670403 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.322	63	456718	139.0449477 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.386	75	352103	29.6921104 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.753	58	313717	146.9950166 ppb		99
51)	TOLUENE	5.534	91	912097	27.4140449 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.788	110	72785	29.6982297 ppb		100
54)	1,1,2-TRICHLOROETHANE	5.900	97	167065	27.7606031 ppb		98
55)	TETRACHLOROETHENE	5.785	164	127322	27.0223530 ppb		99
56)	1,3-Dichloropropane	6.087	76	310130	27.1915138 ppb		97
57)	2-HEXANONE	6.293	58	305165	146.7784202 ppb		100
58)	CHLORODIBROMOMETHANE	6.026	129	165196	28.3819472 ppb		99
59)	1,2-DIBROMOETHANE	6.203	107	159199	28.1445347 ppb		100
60)	CHLOROBENZENE	6.537	112	574466	27.5978155 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.572	133	170304	27.1941817 ppb		97
62)	ETHYLBENZENE	6.531	106	316231	28.1057640 ppb		99
63)	M&P-XYLENE	6.627	106	796008	57.0868071 ppb		98
64)	O-XYLENE	6.936	106	394227	29.1811762 ppb		98
65)	STYRENE	6.974	104	597844	26.6205691 ppb		100
66)	Bromoform	7.019	173	88131	27.9264987 ppb		98
67)	Isopropylbenzene	7.151	105	988106	29.3256372 ppb		100
69)	Bromobenzene	7.466	77	468851	27.6344105 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.511	83	199796	26.8913418 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.630	110	60093	28.2602594 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.643	53	56971	27.7494666 ppb		97
73)	n-Propylbenzene	7.453	91	1195168	27.4884573 ppb		99
74)	4-ETHYLTOLUENE	7.531	105	984796	27.8087795 ppb		100
75)	2-Chlorotoluene	7.592	126	224218	27.4684431 ppb		96
76)	4-Chlorotoluene	7.714	91	765408	28.3126686 ppb		99
77)	1,3,5-Trimethylbenzene	7.588	105	849533	28.3826821 ppb		100
78)	tert-Butylbenzene	7.836	119	685644	28.7701983 ppb		100
79)	1,2,4-Trimethylbenzene	7.888	105	858833	28.2336881 ppb		99
80)	sec-Butylbenzene	7.971	105	1079326	28.5813928 ppb		100
81)	1,3-DICHLOROBENZENE	8.167	146	410644	26.6930923 ppb		100
82)	p-Isopropyltoluene	8.074	119	861761	29.0999852 ppb		99
83)	DICYCLOPENTADIENE	8.080	66	981382	28.3561550 ppb		100
85)	1,4-DICHLOROBENZENE	8.235	146	409672	26.7260966 ppb		95
86)	1,2,3-TRIMETHYLBENZENE	8.235	105	895351	28.1353435 ppb		99
87)	1,2-DICHLOROBENZENE	8.569	146	384955	27.3903683 ppb		99
88)	n-Butylbenzene	8.405	91	832259	28.3536460 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.212	157	31008	26.6369143 ppb		98
90)	1,2,4-Trichlorobenzene	9.756	180	219855	27.3607719 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.711	225	110570	26.0203785 ppb		98
92)	Naphthalene	10.032	128	571597	28.1690785 ppb		100
93)	1,2,3-Trichlorobenzene	10.186	180	205465	27.1908103 ppb		99
94)	1-Methylnaphthalene	10.900	142	320865	26.9673727 ppb		98
95)	2-Methylnaphthalene	11.035	142	286482	29.3667293 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 15a.D
Acq On : 22 Oct 2014 1:29 am
Operator : 644
Sample : SSCV VMS 25 ppb 14J20241
Misc : water IS/SURR14I25028
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:52:20 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:50:21 2014
Response via : Initial Calibration

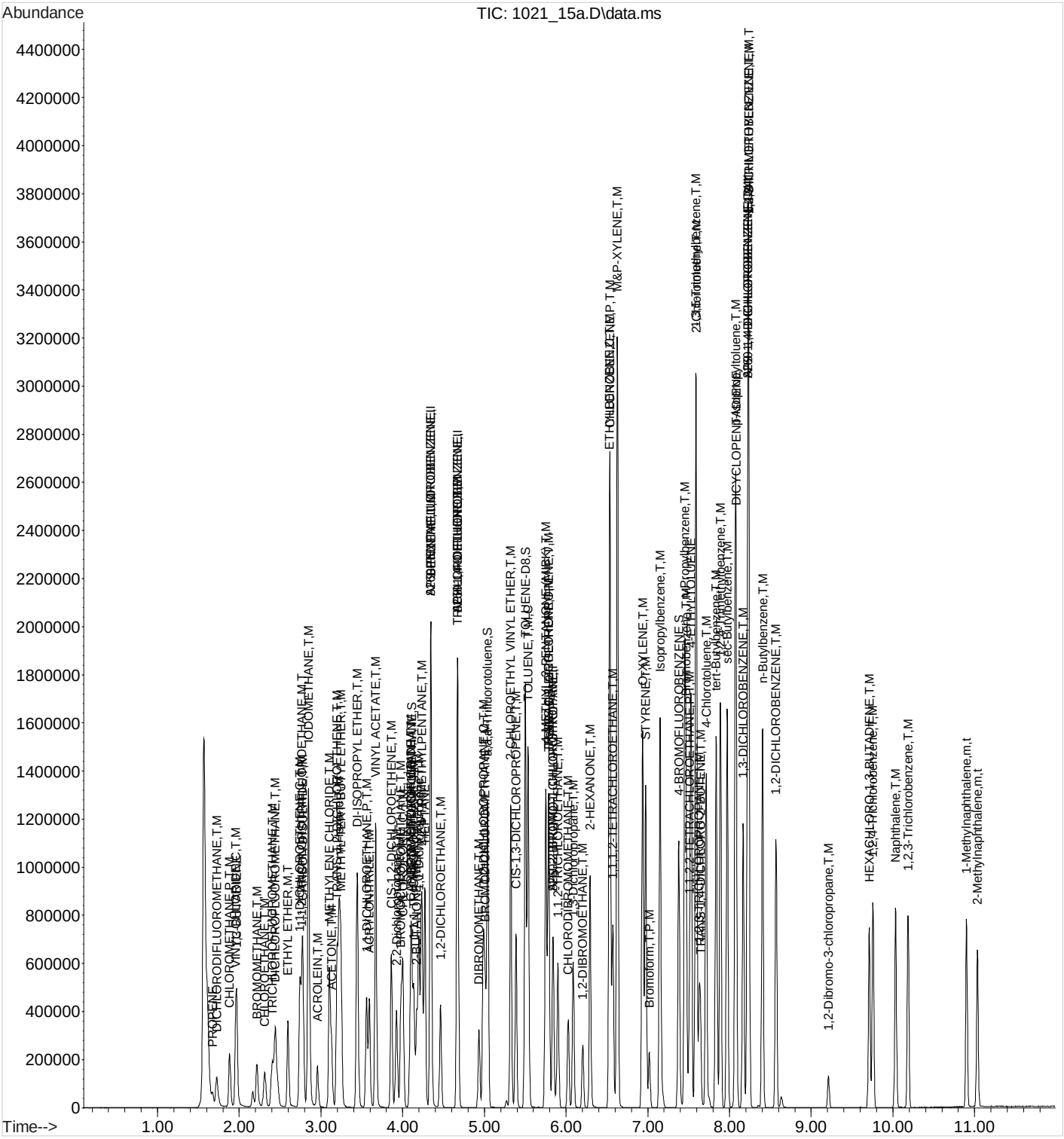
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.714	45	719	No Calib	#
98)	Bromoethane	2.930	108	5592	No Calib	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.222	43	307469	No Calib	#
101)	ACETONITRILE	3.444	41	120338	No Calib	#
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.248	59	720	No Calib	#
104)	chloroprene	3.592	53	290784	No Calib	#
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.274	54	3086	No Calib	#
107)	Ethyl Acetate	4.039	43	828	No Calib	#
108)	METHACRYLONITRILE	4.341	67	1569	No Calib	#
109)	Cyclohexane	4.003	84	14393	No Calib	#
110)	tert-butyl formate	4.225	59	536	No Calib	#
111)	ISOBUTANOL	4.270	41	188507	No Calib	#
112)	t-Amyl Alcohol	4.460	59	1546	No Calib	#
113)	TERT-AMYL METHYL ETHER	4.344	73	15209	No Calib	#
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.672	83	13379	No Calib	#
117)	2-nitropropane	5.753	43	736836	No Calib	#
118)	METHYL METHACRYLATE	5.109	41	526	No Calib	#
119)	1,4-DIOXANE	5.039	88	5385	No Calib	#
120)	n-octane	5.386	85	4791	No Calib	#
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	106408	No Calib	#
123)	ETHYL METHACRYLATE	5.753	69	5674	No Calib	#
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	2938	No Calib	#
125)	Cyclohexanone	7.640	55	885	No Calib	#
126)	PENTACHLOROETHANE	7.888	117	28052	No Calib	#
127)	Hexachloroethane	8.547	117	1420	No Calib	#

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 15a.D
Acq On : 22 Oct 2014 1:29 am
Operator : 644
Sample : SSCV VMS 25 ppb 14J20241
Misc : water IS/SURR14I25028
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:52:20 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:50:21 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 27a.D
Acq On : 22 Oct 2014 5:09 am
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:10:05 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	366795	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	686380	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	111195	40.0000000 ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	287869	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	366795	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	686380	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	111195	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	287869	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	192854	37.7299122 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 94.32%		
46) a,a,a-Trifluorotoluene	5.039	146	379345	40.9720256 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.43%		
50) TOLUENE-D8	5.502	98	886128	40.6093048 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.52%		
68) 4-BROMOFLUOROBENZENE	7.380	95	314953	38.2163133 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 95.54%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3634002	No Calib	
3) PROPENE	0.000		0	N.D.	
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.891	50	8367	1.0642282 ppb #	73
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.952	39	5482	1.0609182 ppb	96
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	2.599	59	505	0.0754068 ppb #	14
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.129	43	23329	14.2028389 ppb	99
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.772	76	1410	0.0648291 ppb #	70
19) METHYLENE CHLORIDE	3.103	84	6110	0.7531172 ppb	97
20) ACRYLONITRILE	3.537	53	305578	164.5564710 ppb #	53
21) n-Hexane	3.287	56	2065	0.3143504 ppb #	1
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	3.232	73	708	0.0387890 ppb #	100
24) 1,1-DICHLOROETHANE	3.537	63	4889	0.3958736 ppb #	43
25) VINYL ACETATE	3.650	43	21110	2.4157676 ppb #	71
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	3.975	77	1522	0.2084608 ppb #	58
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.039	42	31704	19.7455757 ppb #	41
32) CHLOROFORM	3.978	83	5540	0.4631814 ppb #	46
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\102114a\
Data File : 1021 27a.D
Acq On : 22 Oct 2014 5:09 am
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:10:05 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 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	4.248	57	291414	11.2223354 ppb #	1
38) HEPTANE	4.248	43	64751	6.6834175 ppb #	15
39) BENZENE	4.344	78	1563	0.0533337 ppb #	1
40) 1,2-DICHLOROETHANE	4.367	62	32271	3.5113149 ppb #	74
42) TRICHLOROETHENE	4.669	130	4737	0.6847356 ppb #	62
43) 1,2-DICHLOROPROPANE	5.039	62	7937	1.6173856 ppb #	55
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	5.058	83	979	0.1068330 ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.849	58	11228	5.7933520 ppb #	34
51) TOLUENE	5.534	91	1720	0.0569277 ppb #	81
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.846	97	1781	0.3340122 ppb #	1
55) TETRACHLOROETHENE	5.782	164	12668	3.0344695 ppb	95
56) 1,3-Dichloropropane	6.090	76	571	0.0565042 ppb #	43
57) 2-HEXANONE	6.245	58	1160	0.6297098 ppb #	1
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	6.576	133	2359	0.4251421 ppb #	97
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.631	106	866	0.0700957 ppb	78
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	6.971	104	511	0.2976333 ppb #	32
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.415	77	31049	2.0654657 ppb #	31
70) 1,1,2,2-TETRACHLOROETHANE	7.679	83	5540	0.8415704 ppb #	26
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	7.647	53	2783	1.5299210 ppb #	85
73) n-Propylbenzene	7.415	91	14442	0.3748899 ppb #	66
74) 4-ETHYLTOLUENE	7.521	105	1262	0.0402207 ppb #	46
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.711	91	738	0.0308105 ppb #	51
77) 1,3,5-Trimethylbenzene	7.592	105	559	0.0210785 ppb #	29
78) tert-Butylbenzene	7.875	119	198339	9.3930644 ppb #	30
79) 1,2,4-Trimethylbenzene	7.891	105	1392	0.0516480 ppb #	1
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	8.171	146	515	0.0377829 ppb #	19
82) p-Isopropyltoluene	7.875	119	198337	7.5590058 ppb #	59
83) DICYCLOPENTADIENE	8.077	66	963	0.0314044 ppb #	70
85) 1,4-DICHLOROBENZENE	8.232	146	797	0.0591100 ppb #	1
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	575	0.0205414 ppb #	34
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.405	91	572	0.0221539 ppb #	32
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.032	128	1987	0.1113227 ppb #	71
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.900	142	1560	0.1490542 ppb #	68
95) 2-Methylnaphthalene	11.036	142	703	0.0819251 ppb #	51

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 27a.D
Acq On : 22 Oct 2014 5:09 am
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:10:05 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

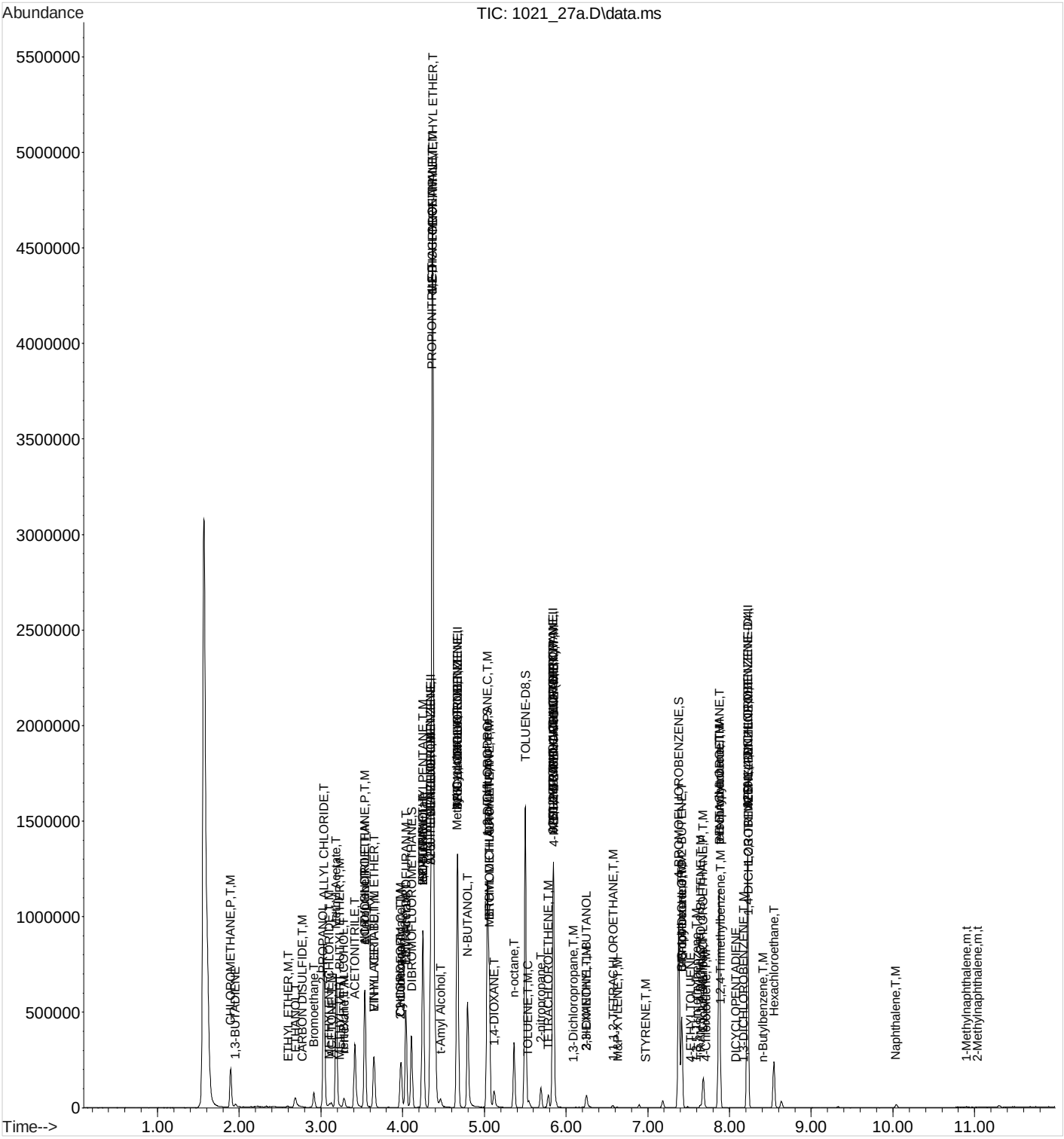
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.685	45	65297	951.6266607 ppb	#	97
98)	Bromoethane	2.914	108	52597	11.0115163 ppb		96
99)	2-PROPANOL	3.023	45	14774	45.2820437 ppb		94
100)	Methyl Acetate	3.187	43	713217	198.9870379 ppb	#	99
101)	ACETONITRILE	3.415	41	326476	490.3453145 ppb		99
102)	ALLYL CHLORIDE	3.036	76	179779	52.8581087 ppb		100
103)	tert-BUTYL ALCOHOL	3.280	59	49796	50.1310096 ppb		98
104)	chloroprene	3.537	53	305578	52.7489874 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.650	59	195366	9.9027637 ppb		99
106)	PROPIONITRILE	4.357	54	372487	487.5958011 ppb		99
107)	Ethyl Acetate	4.039	43	454439	94.1176321 ppb		99
108)	METHACRYLONITRILE	4.367	67	1192167	486.9043752 ppb		100
109)	Cyclohexane	3.978	84	91099	10.9542745 ppb		97
110)	tert-butyl formate	4.248	59	370527	89.4620254 ppb		99
111)	ISOBUTANOL	4.248	41	291839	960.9067279 ppb	#	100
112)	t-Amyl Alcohol	4.463	59	17191	46.7904419 ppb		86
113)	TERT-AMYL METHYL ETHER	4.370	73	174619	9.7226519 ppb	#	99
115)	N-BUTANOL	4.795	56	276788	1967.8388681 ppb		98
116)	Methyl Cyclohexane	4.666	83	117322	10.5917938 ppb		95
117)	2-nitropropane	5.692	43	61284	47.6531966 ppb		98
118)	METHYL METHACRYLATE	5.061	41	232994	49.7268266 ppb		98
119)	1,4-DIOXANE	5.119	88	60621	1003.2384070 ppb		99
120)	n-octane	5.364	85	62150	11.2439977 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	30824	96.8428568 ppb	#	90
123)	ETHYL METHACRYLATE	5.846	69	349674	54.9670530 ppb		100
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	97357	50.6866217 ppb		100
125)	Cyclohexanone	7.679	55	59460	97.0672705 ppb		97
126)	PENTACHLOROETHANE	7.875	117	203712	50.0364297 ppb		99
127)	Hexachloroethane	8.544	117	48759	10.2467795 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 27a.D
Acq On : 22 Oct 2014 5:09 am
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:10:05 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 03a.D
Acq On : 21 Oct 2014 9:50 pm
Operator : 644
Sample : STD VMS .25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:25:27 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.344	168	389587	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.675	114	747471	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	119120	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	328762	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	212446	38.5775977 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.44%		
46) a,a,a-Trifluorotoluene	5.039	146	411987	41.2768553 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.19%		
50) TOLUENE-D8	5.502	98	949577	40.0458385 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.11%		
68) 4-BROMOFLUOROBENZENE	7.380	95	347853	39.3692260 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.42%		

Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -6677755m		Below Cal	
3) PROPENE	0.000		0	N.D.	
4) DICHLORODIFLUOROMETHANE	1.721	85	1103	0.1730735 ppb #	42
5) CHLOROMETHANE	1.888	50	1605	0.1837793 ppb #	87
6) VINYL CHLORIDE	1.952	62	1984	0.2089150 ppb #	50
7) 1,3-BUTADIENE	1.968	39	1522	0.2737636 ppb #	56
8) BROMOMETHANE	2.219	94	960	0.2907921 ppb #	12
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	2.402	101	1606m	0.2198048 ppb	
11) DICHLOROFLUOROMETHANE	2.444	67	2593	0.2118702 ppb	92
12) ETHYL ETHER	2.595	59	2779	0.4039495 ppb	95
13) ACROLEIN	2.962	56	732	0.7479826 ppb #	15
14) 1,1-DICHLOROETHENE	2.746	61	2352	0.2197498 ppb #	64
15) 1,1,2-TRICHLOROTRIFLUO...	2.772	101	914	0.1782400 ppb #	29
16) ACETONE	3.132	43	8319	4.9971484 ppb	94
17) IODOMETHANE	2.849	142	12247	1.1647247 ppb	98
18) CARBON DISULFIDE	2.778	76	6069	0.2606135 ppb #	1
19) METHYLENE CHLORIDE	3.103	84	7745	0.9326676 ppb	95
20) ACRYLONITRILE	3.592	53	1684	0.7654089 ppb #	88
21) n-Hexane	3.225	56	2713	0.4042681 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.200	96	1289	0.1703320 ppb	86
23) METHYL TERT-BUTYL ETHER	3.241	73	3983	0.1915639 ppb #	100
24) 1,1-DICHLOROETHANE	3.553	63	2510	0.1835003 ppb	92
25) VINYL ACETATE	3.672	43	9325	0.9132838 ppb	96
26) DI-ISOPROPYL ETHER	3.444	45	4469	0.1814978 ppb	96
27) 2,2-Dichloropropane	3.923	77	1889	0.2377224 ppb #	58
28) CIS-1,2-DICHLOROETHENE	3.862	96	1407	0.1678393 ppb	89
29) 2-BUTANONE (MEK)	4.180	72	802	0.9970398 ppb	93
30) BROMOCHLOROMETHANE	3.981	130	700	0.1501479 ppb #	68
31) TETRAHYDROFURAN	4.106	42	1010	0.5919195 ppb #	73
32) CHLOROFORM	4.007	83	2712	0.2031560 ppb #	94
34) 1,1,1-TRICHLOROETHANE	4.142	97	2071	0.2119655 ppb #	80
35) CARBON TETRACHLORIDE	4.100	117	1546	0.1902508 ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 03a.D
Acq On : 21 Oct 2014 9:50 pm
Operator : 644
Sample : STD VMS .25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:25:27 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.200	75	1894	0.1824440 ppb	#	62
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	6280	0.2258195 ppb		96
38) HEPTANE	4.274	43	2060	0.1876669 ppb	#	63
39) BENZENE	4.347	78	6870	0.2126283 ppb	#	1
40) 1,2-DICHLOROETHANE	4.463	62	2161	0.2076873 ppb	#	74
42) TRICHLOROETHENE	4.672	130	2437	0.3392537 ppb		93
43) 1,2-DICHLOROPROPANE	4.984	62	1254	0.2242298 ppb	#	73
44) DIBROMOMETHANE	4.929	93	767	0.1858018 ppb		99
45) BROMODICHLOROMETHANE	5.007	83	2398	0.2345535 ppb	#	77
47) 2-CHLOROETHYL VINYL ETHER	5.325	63	2560	0.7433107 ppb	#	85
48) CIS-1,3-DICHLOROPROPENE	5.389	75	1992	0.1570076 ppb	#	98
49) 4-METHYL-2-PENTANONE (...	5.756	58	2079	0.8778790 ppb		97
51) TOLUENE	5.534	91	7013	0.2082275 ppb		93
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
54) 1,1,2-TRICHLOROETHANE	5.900	97	1148	0.1895148 ppb		95
55) TETRACHLOROETHENE	5.788	164	1023	0.2236252 ppb	#	84
56) 1,3-Dichloropropane	6.087	76	2389	0.2126902 ppb		89
57) 2-HEXANONE	6.296	58	1551	0.6928485 ppb		81
58) CHLORODIBROMOMETHANE	6.023	129	1039	0.1720307 ppb	#	83
59) 1,2-DIBROMOETHANE	6.203	107	1045	0.1803682 ppb		87
60) CHLOROBENZENE	6.537	112	4568	0.2196803 ppb		92
61) 1,1,1,2-TETRACHLOROETHANE	6.576	133	1532	0.2448016 ppb	#	77
62) ETHYLBENZENE	6.534	106	2273	0.1973838 ppb		97
63) M&P-XYLENE	6.630	106	5776	0.4014024 ppb		95
64) O-XYLENE	6.936	106	2464	0.1752358 ppb		99
65) STYRENE	6.974	104	2595	0.1237529 ppb		88
66) Bromoform	0.000		0	N.D.		
67) Isopropylbenzene	7.151	105	5259	0.1485248 ppb	#	91
69) Bromobenzene	7.470	77	3904	0.2326323 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	1387	0.1829106 ppb	#	92
71) 1,2,3-TRICHLOROPROPANE	7.637	110	522	0.2328560 ppb	#	26
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.		
73) n-Propylbenzene	7.453	91	9488	0.2196850 ppb		100
74) 4-ETHYLTOLUENE	7.527	105	7849	0.2173133 ppb		99
75) 2-Chlorotoluene	7.595	126	1805	0.2187923 ppb		91
76) 4-Chlorotoluene	7.714	91	5670	0.2059526 ppb	#	87
77) 1,3,5-Trimethylbenzene	7.588	105	6192	0.2015569 ppb		96
78) tert-Butylbenzene	7.839	119	4853	0.1950307 ppb		91
79) 1,2,4-Trimethylbenzene	7.891	105	5999	0.1889019 ppb		89
80) sec-Butylbenzene	7.971	105	6655	0.1666318 ppb		97
81) 1,3-DICHLOROBENZENE	8.167	146	3257	0.2121522 ppb		98
82) p-Isopropyltoluene	8.074	119	5436	0.1700642 ppb	#	88
83) DICYCLOPENTADIENE	8.080	66	5359	0.1495538 ppb		95
85) 1,4-DICHLOROBENZENE	8.235	146	4092	0.2622506 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	7432	0.2198215 ppb		99
87) 1,2-DICHLOROBENZENE	8.569	146	3224	0.2162397 ppb		92
88) n-Butylbenzene	8.405	91	6049	0.1882686 ppb	#	88
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
90) 1,2,4-Trichlorobenzene	9.756	180	1652	0.1869392 ppb	#	81
91) HEXACHLORO-1,3-BUTADIENE	9.707	225	960	0.2123801 ppb	#	19
92) Naphthalene	10.035	128	4578	0.2055956 ppb	#	71
93) 1,2,3-Trichlorobenzene	10.183	180	1369	0.1699985 ppb	#	71
94) 1-Methylnaphthalene	10.900	142	2107	0.1781896 ppb	#	84
95) 2-Methylnaphthalene	11.039	142	1969	0.1878536 ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 03a.D
Acq On : 21 Oct 2014 9:50 pm
Operator : 644
Sample : STD VMS .25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:25:27 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

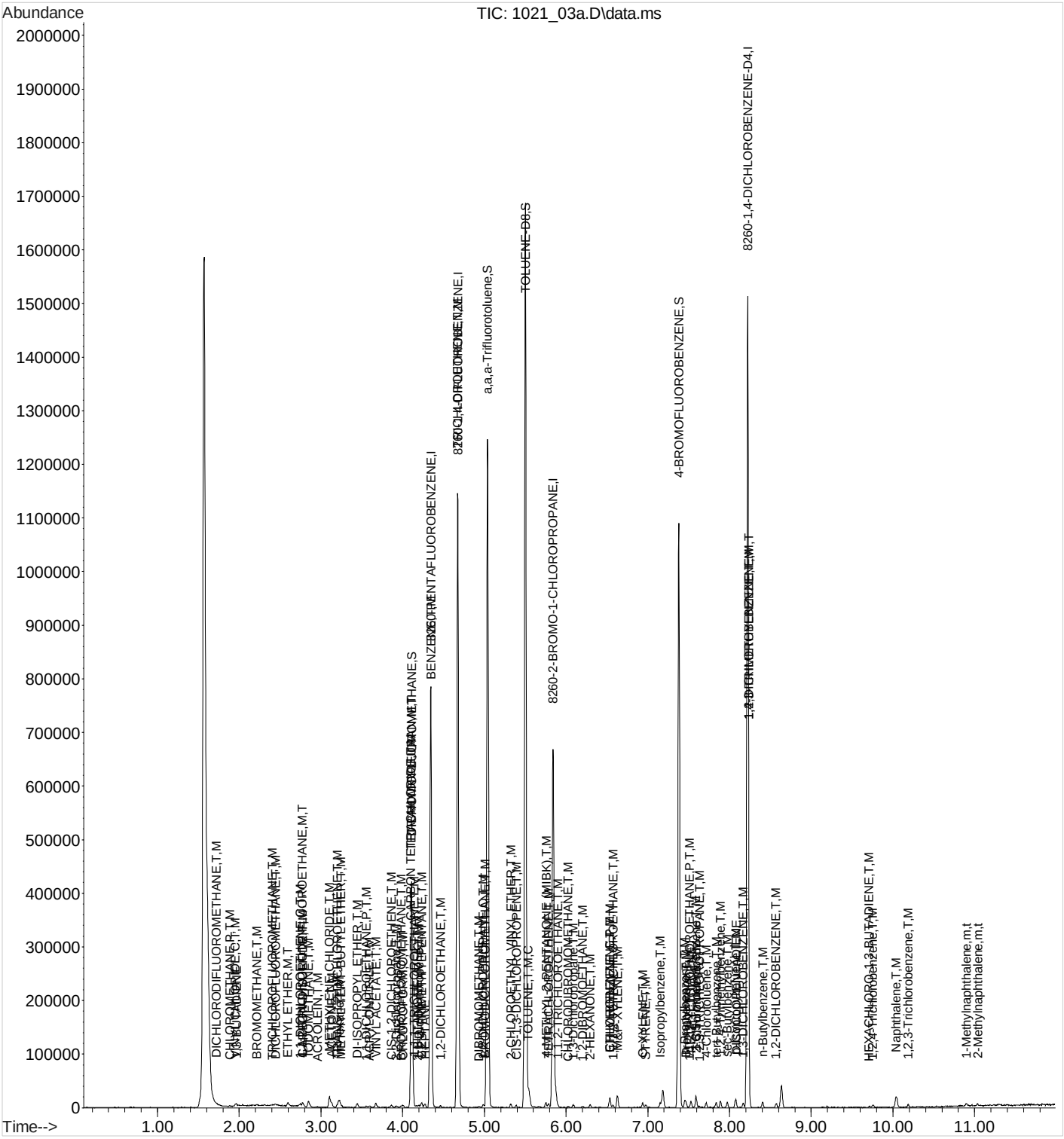
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 03a.D
Acq On : 21 Oct 2014 9:50 pm
Operator : 644
Sample : STD VMS .25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:25:27 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 03a.D
Acq On    : 21 Oct 2014   9:50 pm
Operator  : 644
Sample    : STD VMS .25 ppb 14J20240
Misc      : water IS/SURR14I25028
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Oct 22 14:23:09 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration
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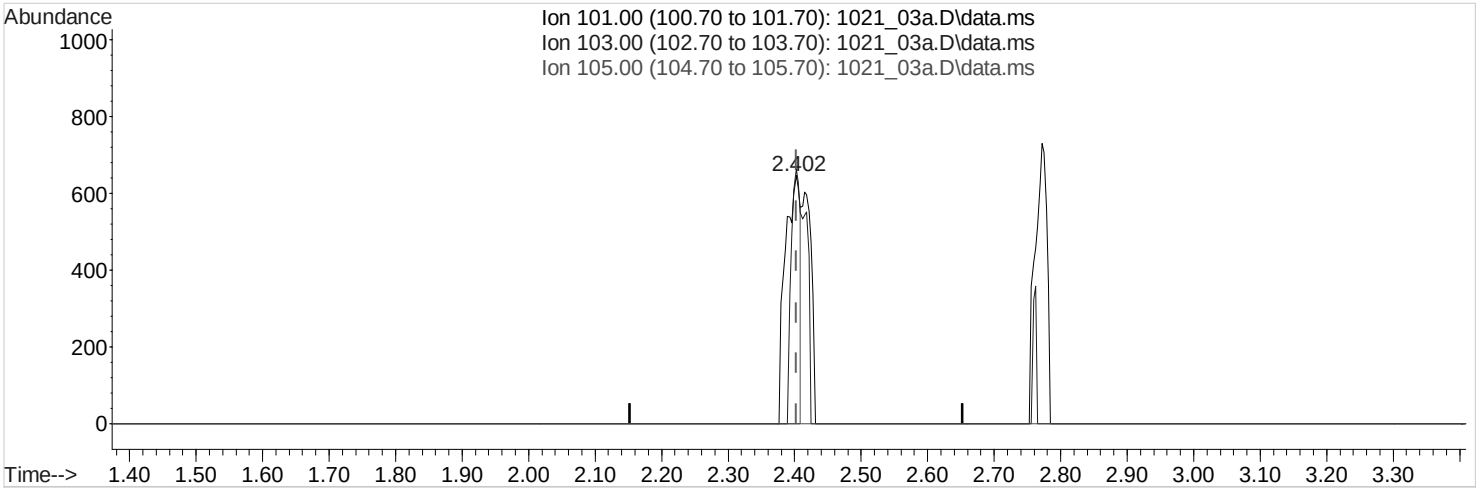
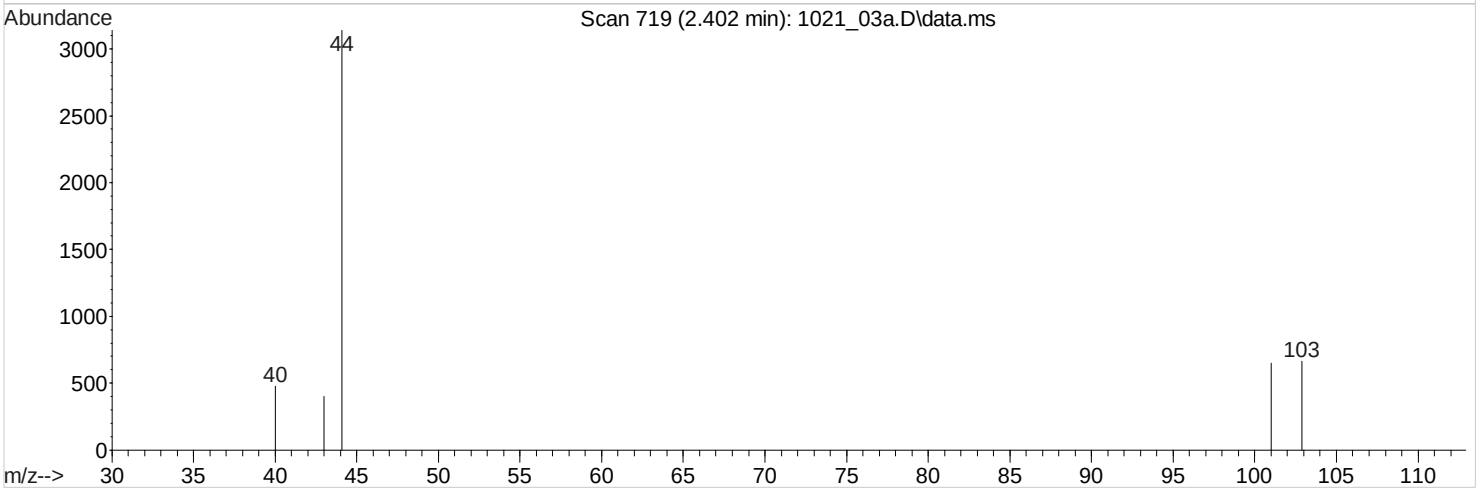




TIC: 1021_03a.D\data.ms

(10) TRICHLOROFLUOROMETHANE (T,M)

2.402min (-0.000) 0.1370016 ppb

Qvalue = 54

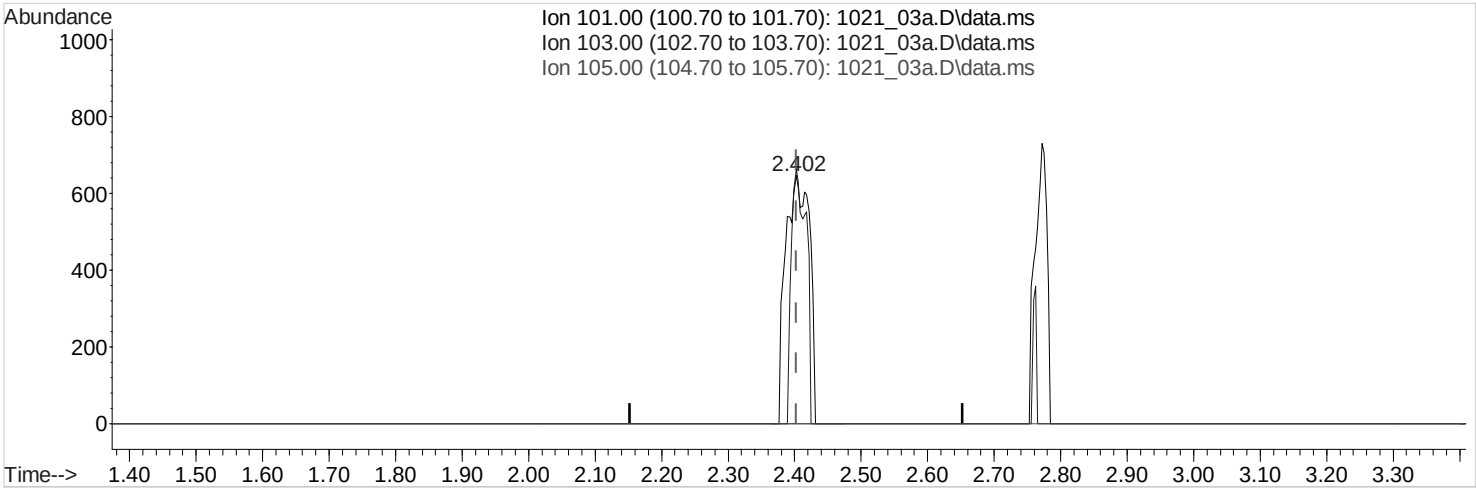
response 1001

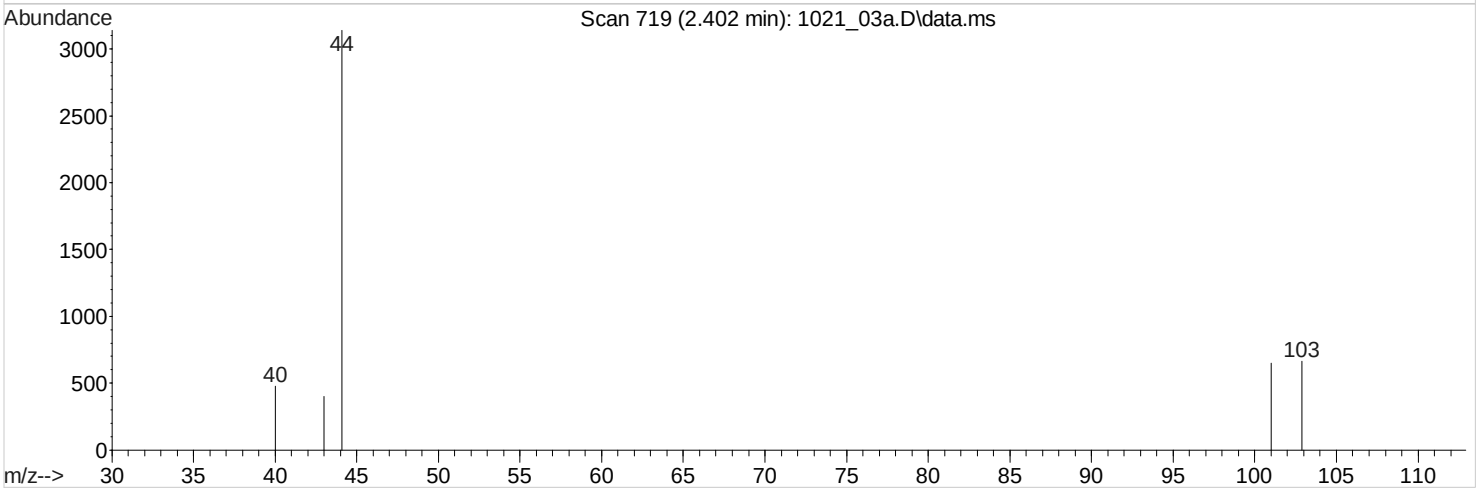
Ion	Exp%	Act%
101.00	100	100
103.00	64.40	103.20#
105.00	9.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 03a.D
Acq On : 21 Oct 2014 9:50 pm
Operator : 644
Sample : STD VMS .25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:23:09 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration





TIC: 1021_03a.D\data.ms

(10) TRICHLOROFLUOROMETHANE (T,M)

2.402min (-0.000) 0.2198048 ppb m

response 1606

Ion	Exp%	Act%
101.00	100	100
103.00	64.40	64.32
105.00	9.90	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 04a.D
Acq On : 21 Oct 2014 10:08 pm
Operator : 644
Sample : STD VMS .5 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:26:35 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.344	168	387323	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	739440	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	117751	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	326817	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	209632	38.2891185 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 95.72%		
46) a,a,a-Trifluorotoluene	5.039	146	412514	41.7785334 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.45%		
50) TOLUENE-D8	5.502	98	948264	40.4247996 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.06%		
68) 4-BROMOFLUOROBENZENE	7.380	95	350310	40.1082524 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.27%		

Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6782292m	Below Cal		
3) PROPENE	1.679	41	671	0.8441370 ppb	#	42
4) DICHLORODIFLUOROMETHANE	1.727	85	3020	0.4766430 ppb	#	42
5) CHLOROMETHANE	1.881	50	4263	0.4909847 ppb	#	87
6) VINYL CHLORIDE	1.955	62	4351	0.4608380 ppb	#	92
7) 1,3-BUTADIENE	1.968	39	2828	0.5116485 ppb		81
8) BROMOMETHANE	2.216	94	2412	0.7348857 ppb	#	89
9) CHLOROETHANE	2.316	66	906	0.5238495 ppb	#	72
10) TRICHLOROFLUOROMETHANE	2.402	101	3918	0.5393706 ppb	#	80
11) DICHLOROFLUOROMETHANE	2.444	67	5939	0.4881035 ppb		98
12) ETHYL ETHER	2.599	59	4711	0.6887837 ppb		92
13) ACROLEIN	2.959	56	1989	2.0443081 ppb		90
14) 1,1-DICHLOROETHENE	2.743	61	4779	0.4491168 ppb		90
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	2600	0.5099920 ppb	#	65
16) ACETONE	3.132	43	9227	5.5749735 ppb		94
17) IODOMETHANE	2.849	142	24588	2.3520576 ppb		98
18) CARBON DISULFIDE	2.779	76	11931	0.5153328 ppb	#	76
19) METHYLENE CHLORIDE	3.103	84	10138	1.2279733 ppb		92
20) ACRYLONITRILE	3.595	53	4327	1.9781969 ppb		95
21) n-Hexane	3.225	56	4684	0.7020494 ppb	#	77
22) TRANS-1,2-DICHLOROETHENE	3.200	96	3542	0.4707855 ppb		89
23) METHYL TERT-BUTYL ETHER	3.245	73	8768	0.4241653 ppb	#	100
24) 1,1-DICHLOROETHANE	3.557	63	6740	0.4956261 ppb		98
25) VINYL ACETATE	3.669	43	19870	1.9574286 ppb		98
26) DI-ISOPROPYL ETHER	3.444	45	10526	0.4299871 ppb		98
27) 2,2-Dichloropropane	3.923	77	3672	0.4648062 ppb	#	58
28) CIS-1,2-DICHLOROETHENE	3.862	96	4143	0.4971021 ppb		90
29) 2-BUTANONE (MEK)	4.174	72	1492	1.8656841 ppb		76
30) BROMOCHLOROMETHANE	3.981	130	2349	0.5067986 ppb		82
31) TETRAHYDROFURAN	4.113	42	1597	0.9414069 ppb		91
32) CHLOROFORM	4.004	83	6088	0.4587180 ppb	#	94
34) 1,1,1-TRICHLOROETHANE	4.142	97	4279	0.4405128 ppb		91
35) CARBON TETRACHLORIDE	4.094	117	3298	0.4082242 ppb		81

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 04a.D
Acq On : 21 Oct 2014 10:08 pm
Operator : 644
Sample : STD VMS .5 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:26:35 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.203	75	4435	0.4297089 ppb		96
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	13963	0.5050236 ppb		99
38) HEPTANE	4.270	43	4151	0.3803683 ppb	#	99
39) BENZENE	4.344	78	15751	0.4903472 ppb	#	65
40) 1,2-DICHLOROETHANE	4.463	62	4450	0.4301761 ppb	#	74
42) TRICHLOROETHENE	4.666	130	4636	0.6523850 ppb		89
43) 1,2-DICHLOROPROPANE	4.991	62	2411	0.4357972 ppb		98
44) DIBROMOMETHANE	4.936	93	1993	0.4880376 ppb		97
45) BROMODICHLOROMETHANE	5.013	83	5043	0.4986239 ppb	#	94
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	6140	1.8021470 ppb	#	93
48) CIS-1,3-DICHLOROPROPENE	5.389	75	5371	0.4279351 ppb	#	96
49) 4-METHYL-2-PENTANONE (...	5.753	58	4271	1.8230609 ppb		92
51) TOLUENE	5.534	91	16685	0.5007856 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.791	110	999	0.3898978 ppb	#	78
54) 1,1,2-TRICHLOROETHANE	5.904	97	2847	0.4754543 ppb		98
55) TETRACHLOROETHENE	5.785	164	2425	0.5362619 ppb		90
56) 1,3-Dichloropropane	6.087	76	5461	0.4918397 ppb		96
57) 2-HEXANONE	6.293	58	4138	1.8699803 ppb		91
58) CHLORODIBROMOMETHANE	6.026	129	2557	0.4282931 ppb		93
59) 1,2-DIBROMOETHANE	6.206	107	2498	0.4361703 ppb		98
60) CHLOROBENZENE	6.540	112	9962	0.4846537 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	6.576	133	2904	0.4694315 ppb	#	90
62) ETHYLBENZENE	6.531	106	5026	0.4415242 ppb		96
63) M&P-XYLENE	6.627	106	11937	0.8392050 ppb		95
64) O-XYLENE	6.936	106	6011	0.4324631 ppb		92
65) STYRENE	6.975	104	5796	0.2796190 ppb		94
66) Bromoform	7.023	173	1157	0.3591373 ppb	#	84
67) Isopropylbenzene	7.151	105	15284	0.4366697 ppb		97
69) Bromobenzene	7.466	77	7534	0.4541570 ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	3642	0.4858727 ppb	#	93
71) 1,2,3-TRICHLOROPROPANE	7.630	110	696	0.3140844 ppb	#	26
72) TRANS-1,4-DICHLORO-2-B...	7.653	53	639	0.2977956 ppb	#	24
73) n-Propylbenzene	7.454	91	19934	0.4669175 ppb	#	96
74) 4-ETHYLTOLUENE	7.531	105	15340	0.4296526 ppb		93
75) 2-Chlorotoluene	7.592	126	3673	0.4503974 ppb		92
76) 4-Chlorotoluene	7.714	91	12371	0.4545786 ppb	#	92
77) 1,3,5-Trimethylbenzene	7.589	105	13067	0.4302914 ppb		99
78) tert-Butylbenzene	7.836	119	10499	0.4268356 ppb		94
79) 1,2,4-Trimethylbenzene	7.891	105	13503	0.4301380 ppb		97
80) sec-Butylbenzene	7.974	105	16247	0.4115315 ppb		100
81) 1,3-DICHLOROBENZENE	8.167	146	7870	0.5185904 ppb		95
82) p-Isopropyltoluene	8.071	119	11803	0.3735476 ppb		95
83) DICYCLOPENTADIENE	8.081	66	11094	0.3132001 ppb	#	94
85) 1,4-DICHLOROBENZENE	8.235	146	7850	0.5060897 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	14915	0.4437770 ppb		97
87) 1,2-DICHLOROBENZENE	8.573	146	6949	0.4688562 ppb		97
88) n-Butylbenzene	8.405	91	12529	0.3922724 ppb		98
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
90) 1,2,4-Trichlorobenzene	9.756	180	3655	0.4160588 ppb	#	90
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	2209	0.4916038 ppb		96
92) Naphthalene	10.036	128	9155	0.4135932 ppb		96
93) 1,2,3-Trichlorobenzene	10.187	180	4110	0.5134055 ppb	#	84
94) 1-Methylnaphthalene	10.904	142	5158	0.4388097 ppb	#	95
95) 2-Methylnaphthalene	11.035	142	3555	0.3411853 ppb		90

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 04a.D
Acq On : 21 Oct 2014 10:08 pm
Operator : 644
Sample : STD VMS .5 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:26:35 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

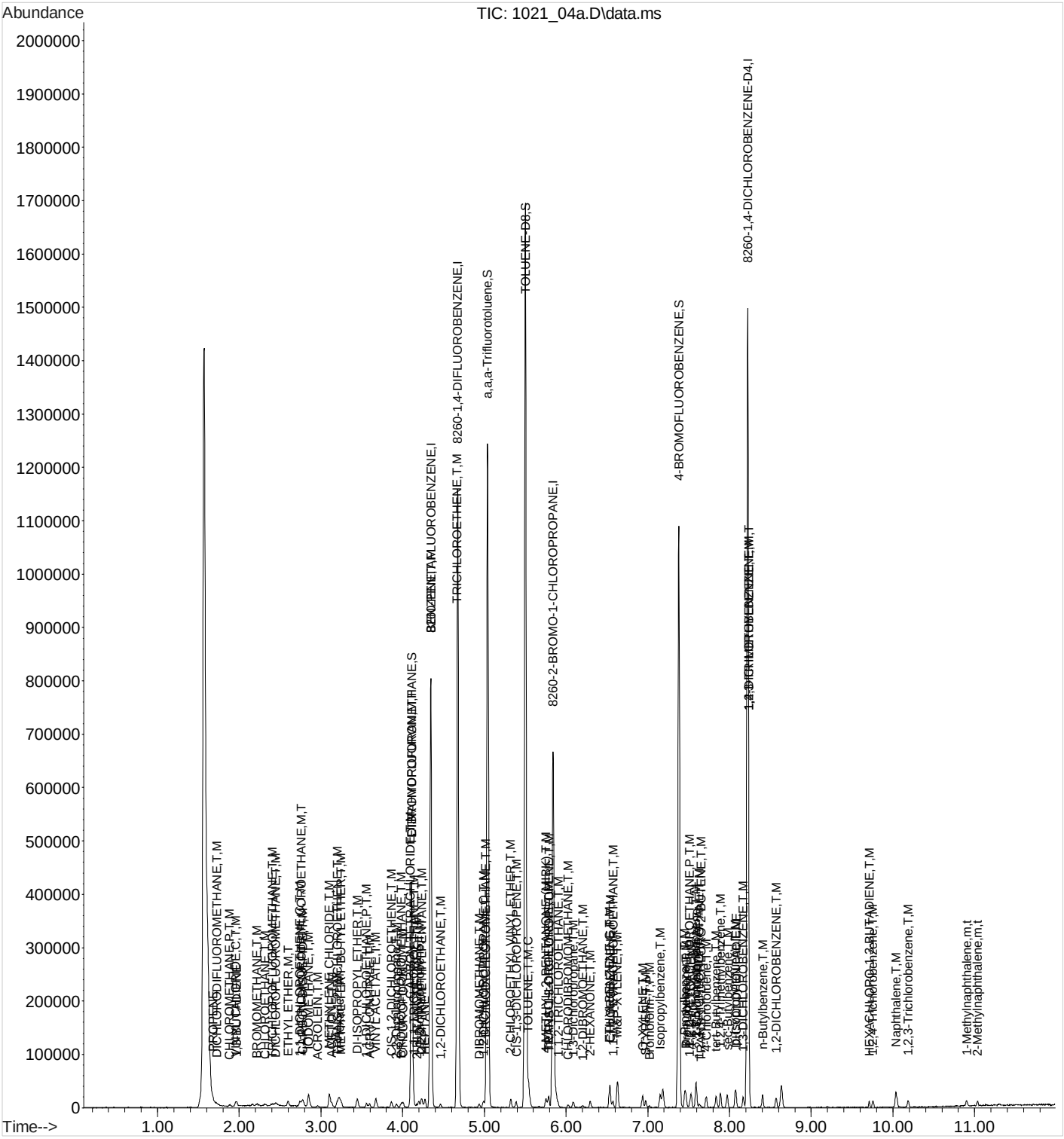
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 04a.D
Acq On : 21 Oct 2014 10:08 pm
Operator : 644
Sample : STD VMS .5 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:26:35 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 05a.D
Acq On : 21 Oct 2014 10:27 pm
Operator : 644
Sample : STD VMS 1 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:27:49 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	4.344	168	390687	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.672	114	736137	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.839	79	119021	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.222	152	326160	40.0000000	ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.34
114)	AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.68
122)	AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.84
128)	AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.22
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	4.110	111	220213	39.8754017	ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 99.69%				
46)	a,a,a-Trifluorotoluene	5.039	146	415865	42.3068959	ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 105.77%				
50)	TOLUENE-D8	5.502	98	963485	41.2579707	ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 103.14%				
68)	4-BROMOFLUOROBENZENE	7.380	95	353073	39.9932521	ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 99.98%				
Target Compounds								Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC	-6790857m	Below Cal			
3)	PROPENE	1.669	41	1375	1.7148946	ppb		95
4)	DICHLORODIFLUOROMETHANE	1.724	85	6171	0.9655754	ppb		96
5)	CHLOROMETHANE	1.881	50	8264	0.9435986	ppb		98
6)	VINYL CHLORIDE	1.952	62	8874	0.9318005	ppb		94
7)	1,3-BUTADIENE	1.965	39	5039	0.9038180	ppb		96
8)	BROMOMETHANE	2.216	94	5099	1.5401812	ppb	#	86
9)	CHLOROETHANE	2.312	66	1819	1.0426903	ppb	#	84
10)	TRICHLOROFLUOROMETHANE	2.405	101	6134	0.8371647	ppb	#	86
11)	DICHLOROFLUOROMETHANE	2.444	67	11808	0.9620979	ppb		98
12)	ETHYL ETHER	2.592	59	7978	1.1564000	ppb		94
13)	ACROLEIN	2.955	56	3923	3.9973686	ppb	#	78
14)	1,1-DICHLOROETHENE	2.740	61	9865	0.9191020	ppb		95
15)	1,1,2-TRICHLOROTRIFLUO...	2.766	101	4550	0.8848013	ppb		95
16)	ACETONE	3.129	43	14311	8.5722849	ppb		97
17)	IODOMETHANE	2.846	142	50804	4.8180020	ppb		99
18)	CARBON DISULFIDE	2.775	76	23778	1.0181942	ppb	#	61
19)	METHYLENE CHLORIDE	3.103	84	12449	1.4949114	ppb		91
20)	ACRYLONITRILE	3.592	53	9421	4.2699613	ppb		97
21)	n-Hexane	3.219	56	7953	1.1817513	ppb	#	87
22)	TRANS-1,2-DICHLOROETHENE	3.196	96	6746	0.8889251	ppb		96
23)	METHYL TERT-BUTYL ETHER	3.245	73	19007	0.9115753	ppb	#	100
24)	1,1-DICHLOROETHANE	3.557	63	13222	0.9639084	ppb		98
25)	VINYL ACETATE	3.672	43	43403	4.2388900	ppb		97
26)	DI-ISOPROPYL ETHER	3.444	45	21019	0.8512331	ppb		97
27)	2,2-Dichloropropane	3.923	77	7864	0.9868635	ppb		95
28)	CIS-1,2-DICHLOROETHENE	3.862	96	7256	0.8631221	ppb		96
29)	2-BUTANONE (MEK)	4.174	72	3172	3.9323014	ppb		89
30)	BROMOCHLOROMETHANE	3.978	130	4098	0.8765338	ppb		97
31)	TETRAHYDROFURAN	4.106	42	1872	1.0940134	ppb	#	81
32)	CHLOROFORM	4.000	83	12349	0.9224594	ppb		99
34)	1,1,1-TRICHLOROETHANE	4.135	97	8953	0.9137536	ppb		89
35)	CARBON TETRACHLORIDE	4.097	117	7943	0.9747135	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 05a.D
Acq On : 21 Oct 2014 10:27 pm
Operator : 644
Sample : STD VMS 1 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:27:49 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.200	75	9579	0.9201216 ppb		97
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	25547	0.9160458 ppb		98
38) HEPTANE	4.270	43	9755	0.8861824 ppb	#	95
39) BENZENE	4.344	78	32001	0.9876509 ppb	#	80
40) 1,2-DICHLOROETHANE	4.463	62	9687	0.9283675 ppb	#	93
42) TRICHLOROETHENE	4.669	130	7483	1.0577440 ppb		97
43) 1,2-DICHLOROPROPANE	4.987	62	5171	0.9388714 ppb		97
44) DIBROMOMETHANE	4.936	93	4285	1.0540012 ppb		93
45) BROMODICHLOROMETHANE	5.010	83	9511	0.9446144 ppb		92
47) 2-CHLOROETHYL VINYL ETHER	5.325	63	11860	3.4966392 ppb		97
48) CIS-1,3-DICHLOROPROPENE	5.386	75	11224	0.8982861 ppb	#	94
49) 4-METHYL-2-PENTANONE (...	5.753	58	9439	4.0470808 ppb		98
51) TOLUENE	5.534	91	33552	1.0115523 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.791	110	1690	0.6625464 ppb	#	93
54) 1,1,2-TRICHLOROETHANE	5.901	97	5926	0.9790931 ppb		95
55) TETRACHLOROETHENE	5.782	164	4522	0.9893200 ppb		95
56) 1,3-Dichloropropane	6.087	76	11987	1.0680778 ppb		98
57) 2-HEXANONE	6.293	58	8469	3.7863407 ppb		100
58) CHLORODIBROMOMETHANE	6.029	129	5423	0.8986509 ppb		96
59) 1,2-DIBROMOETHANE	6.206	107	5486	0.9476774 ppb		100
60) CHLOROBENZENE	6.540	112	19861	0.9559323 ppb		94
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	5620	0.8987790 ppb	#	88
62) ETHYLBENZENE	6.534	106	10377	0.9018720 ppb		94
63) M&P-XYLENE	6.627	106	24942	1.7347829 ppb		97
64) O-XYLENE	6.936	106	12369	0.8803957 ppb		96
65) STYRENE	6.974	104	12566	0.5997584 ppb		96
66) Bromoform	7.019	173	2773	0.8515656 ppb		97
67) Isopropylbenzene	7.151	105	30532	0.8630029 ppb		98
69) Bromobenzene	7.470	77	15627	0.9319594 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	7437	0.9815701 ppb		96
71) 1,2,3-TRICHLOROPROPANE	7.630	110	1736	0.7750466 ppb	#	83
72) TRANS-1,4-DICHLORO-2-B...	7.650	53	1566	0.7220215 ppb	#	84
73) n-Propylbenzene	7.454	91	41359	0.9584220 ppb		96
74) 4-ETHYLTOLUENE	7.531	105	31819	0.8816975 ppb		97
75) 2-Chlorotoluene	7.592	126	7411	0.8990685 ppb		98
76) 4-Chlorotoluene	7.714	91	23839	0.8666291 ppb		98
77) 1,3,5-Trimethylbenzene	7.589	105	27089	0.8825123 ppb		100
78) tert-Butylbenzene	7.836	119	20410	0.8209122 ppb		97
79) 1,2,4-Trimethylbenzene	7.888	105	27109	0.8543427 ppb		97
80) sec-Butylbenzene	7.971	105	33457	0.8384129 ppb		98
81) 1,3-DICHLOROBENZENE	8.167	146	14663	0.9559025 ppb		93
82) p-Isopropyltoluene	8.074	119	24424	0.7647357 ppb		97
83) DICYCLOPENTADIENE	8.077	66	23417	0.6540425 ppb		100
85) 1,4-DICHLOROBENZENE	8.235	146	15858	1.0244251 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	29351	0.8750610 ppb		94
87) 1,2-DICHLOROBENZENE	8.569	146	13849	0.9362886 ppb		97
88) n-Butylbenzene	8.405	91	25962	0.8144856 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.212	157	755	0.6180666 ppb	#	65
90) 1,2,4-Trichlorobenzene	9.756	180	7955	0.9073639 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	4222	0.9414812 ppb		95
92) Naphthalene	10.035	128	17690	0.8007867 ppb		98
93) 1,2,3-Trichlorobenzene	10.187	180	7530	0.9425136 ppb		98
94) 1-Methylnaphthalene	10.900	142	8459	0.7210873 ppb		96
95) 2-Methylnaphthalene	11.035	142	7252	0.6974008 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 05a.D
Acq On : 21 Oct 2014 10:27 pm
Operator : 644
Sample : STD VMS 1 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:27:49 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

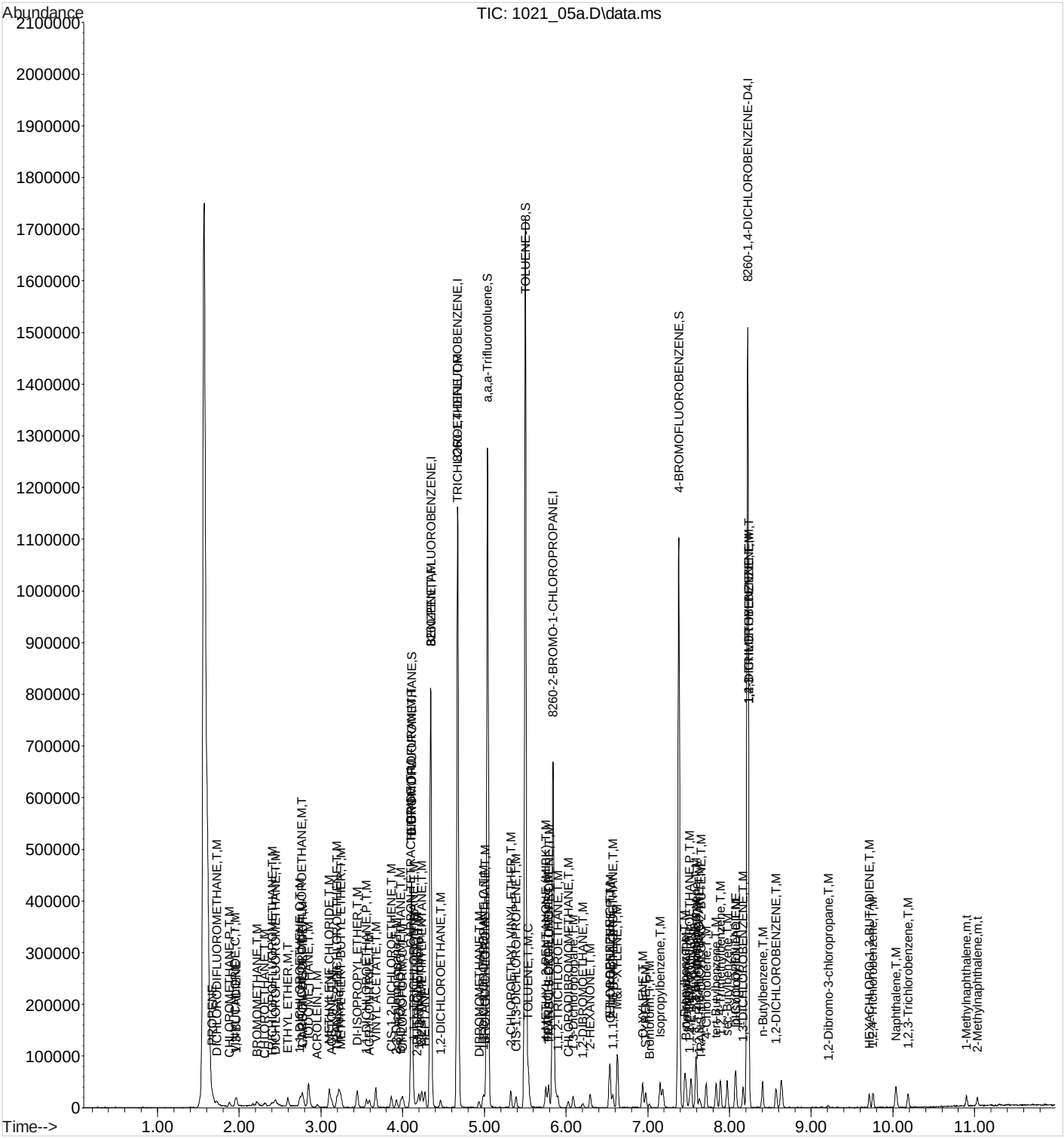
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 05a.D
Acq On : 21 Oct 2014 10:27 pm
Operator : 644
Sample : STD VMS 1 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:27:49 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 06a.D
Acq On : 21 Oct 2014 10:45 pm
Operator : 644
Sample : STD VMS 2 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:28:53 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.341	168	391638	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	732735	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	114238	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	325515	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.22
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	219469	39.6441799	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.11%			
46) a,a,a-Trifluorotoluene	5.039	146	422134	43.1440424	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.86%			
50) TOLUENE-D8	5.502	98	975916	41.9843133	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.96%			
68) 4-BROMOFLUOROBENZENE	7.380	95	365254	43.1052529	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 107.76%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6550085m	Below Cal		
3) PROPENE	1.669	41	1870	2.3265933	ppb #	89
4) DICHLORODIFLUOROMETHANE	1.724	85	12896	2.0129352	ppb	99
5) CHLOROMETHANE	1.878	50	16522	1.8819312	ppb	97
6) VINYL CHLORIDE	1.955	62	17800	1.8645226	ppb	98
7) 1,3-BUTADIENE	1.968	39	10559	1.8893114	ppb	97
8) BROMOMETHANE	2.219	94	8289	2.4976586	ppb	93
9) CHLOROETHANE	2.309	66	3835	2.1929673	ppb #	81
10) TRICHLOROFLUOROMETHANE	2.409	101	14507	1.9750991	ppb #	93
11) DICHLOROFLUOROMETHANE	2.441	67	24864	2.0209616	ppb	98
12) ETHYL ETHER	2.595	59	15082	2.1808065	ppb	94
13) ACROLEIN	2.959	56	8749	8.8932079	ppb	94
14) 1,1-DICHLOROETHENE	2.743	61	19887	1.8483322	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.766	101	10271	1.9924675	ppb	96
16) ACETONE	3.129	43	23203	13.8648410	ppb	97
17) IODOMETHANE	2.849	142	102008	9.6504472	ppb	99
18) CARBON DISULFIDE	2.779	76	47476	2.0280261	ppb #	92
19) METHYLENE CHLORIDE	3.103	84	22308	2.6723033	ppb	100
20) ACRYLONITRILE	3.595	53	18549	8.3867090	ppb	99
21) n-Hexane	3.219	56	13902	2.0607084	ppb	89
22) TRANS-1,2-DICHLOROETHENE	3.197	96	14061	1.8483286	ppb	99
23) METHYL TERT-BUTYL ETHER	3.242	73	36966	1.7685834	ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	26469	1.9249537	ppb	96
25) VINYL ACETATE	3.669	43	80867	7.8785785	ppb	99
26) DI-ISOPROPYL ETHER	3.444	45	43357	1.7516196	ppb	98
27) 2,2-Dichloropropane	3.923	77	16000	2.0029850	ppb	97
28) CIS-1,2-DICHLOROETHENE	3.862	96	16233	1.9262733	ppb	94
29) 2-BUTANONE (MEK)	4.174	72	7228	8.9387318	ppb	94
30) BROMOCHLOROMETHANE	3.981	130	8421	1.7968197	ppb	91
31) TETRAHYDROFURAN	4.103	42	3128	1.8235920	ppb #	93
32) CHLOROFORM	4.000	83	25427	1.8947622	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.135	97	18427	1.8761143	ppb	96
35) CARBON TETRACHLORIDE	4.097	117	15867	1.9423674	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 06a.D
Acq On : 21 Oct 2014 10:45 pm
Operator : 644
Sample : STD VMS 2 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:28:53 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	18477	1.7705193 ppb		93
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	56378	2.0166526 ppb		98
38) HEPTANE	4.271	43	20420	1.8505284 ppb	#	99
39) BENZENE	4.344	78	60521	1.8633316 ppb	#	89
40) 1,2-DICHLOROETHANE	4.463	62	20618	1.9711574 ppb		97
42) TRICHLOROETHENE	4.669	130	14865	2.1109670 ppb		97
43) 1,2-DICHLOROPROPANE	4.984	62	10214	1.8631127 ppb		98
44) DIBROMOMETHANE	4.933	93	7631	1.8857471 ppb		96
45) BROMODICHLOROMETHANE	5.010	83	19818	1.9774245 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	24272	7.1892471 ppb	#	98
48) CIS-1,3-DICHLOROPROPENE	5.386	75	20869	1.6779553 ppb		96
49) 4-METHYL-2-PENTANONE (...	5.753	58	18067	7.7824018 ppb		89
51) TOLUENE	5.534	91	67782	2.0530334 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	4712	1.8558660 ppb		93
54) 1,1,2-TRICHLOROETHANE	5.901	97	12351	2.1260697 ppb		90
55) TETRACHLOROETHENE	5.782	164	10053	2.2914740 ppb		94
56) 1,3-Dichloropropane	6.087	76	21853	2.0286936 ppb		93
57) 2-HEXANONE	6.296	58	15733	7.3284497 ppb		87
58) CHLORODIBROMOMETHANE	6.026	129	10762	1.8580500 ppb		98
59) 1,2-DIBROMOETHANE	6.203	107	11259	2.0263643 ppb		89
60) CHLOROBENZENE	6.541	112	42024	2.1073489 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	11625	1.9369685 ppb	#	96
62) ETHYLBENZENE	6.531	106	21505	1.9472671 ppb		96
63) M&P-XYLENE	6.627	106	53863	3.9031694 ppb		96
64) O-XYLENE	6.936	106	25722	1.9074846 ppb		95
65) STYRENE	6.975	104	26201	1.3028972 ppb		96
66) Bromoform	7.020	173	5975	1.9116973 ppb	#	92
67) Isopropylbenzene	7.151	105	62595	1.8433579 ppb		98
69) Bromobenzene	7.470	77	32473	2.0177010 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.512	83	13600	1.8701458 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.627	110	4219	1.9624591 ppb		91
72) TRANS-1,4-DICHLORO-2-B...	7.643	53	3008	1.4449381 ppb	#	90
73) n-Propylbenzene	7.454	91	81200	1.9604500 ppb		99
74) 4-ETHYLTOLUENE	7.531	105	68312	1.9721643 ppb		100
75) 2-Chlorotoluene	7.592	126	16320	2.0627621 ppb		89
76) 4-Chlorotoluene	7.714	91	50653	1.9185071 ppb		98
77) 1,3,5-Trimethylbenzene	7.589	105	55619	1.8878347 ppb		94
78) tert-Butylbenzene	7.836	119	44091	1.8476371 ppb		99
79) 1,2,4-Trimethylbenzene	7.891	105	56552	1.8568617 ppb		100
80) sec-Butylbenzene	7.971	105	70200	1.8328252 ppb		99
81) 1,3-DICHLOROBENZENE	8.167	146	31468	2.1373366 ppb		97
82) p-Isopropyltoluene	8.071	119	54731	1.7854222 ppb		98
83) DICYCLOPENTADIENE	8.081	66	56156	1.6341197 ppb		96
85) 1,4-DICHLOROBENZENE	8.235	146	31166	2.0173096 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	61433	1.8351723 ppb		99
87) 1,2-DICHLOROBENZENE	8.569	146	28268	1.9149000 ppb		94
88) n-Butylbenzene	8.405	91	55808	1.7542902 ppb		97
89) 1,2-Dibromo-3-chloropr...	9.212	157	1855	1.5215700 ppb		95
90) 1,2,4-Trichlorobenzene	9.756	180	15287	1.7471221 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	8274	1.8487093 ppb		96
92) Naphthalene	10.032	128	35654	1.6171747 ppb		98
93) 1,2,3-Trichlorobenzene	10.187	180	14881	1.8663129 ppb		96
94) 1-Methylnaphthalene	10.900	142	17549	1.4989284 ppb		98
95) 2-Methylnaphthalene	11.036	142	16221	1.5630107 ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 06a.D
Acq On : 21 Oct 2014 10:45 pm
Operator : 644
Sample : STD VMS 2 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

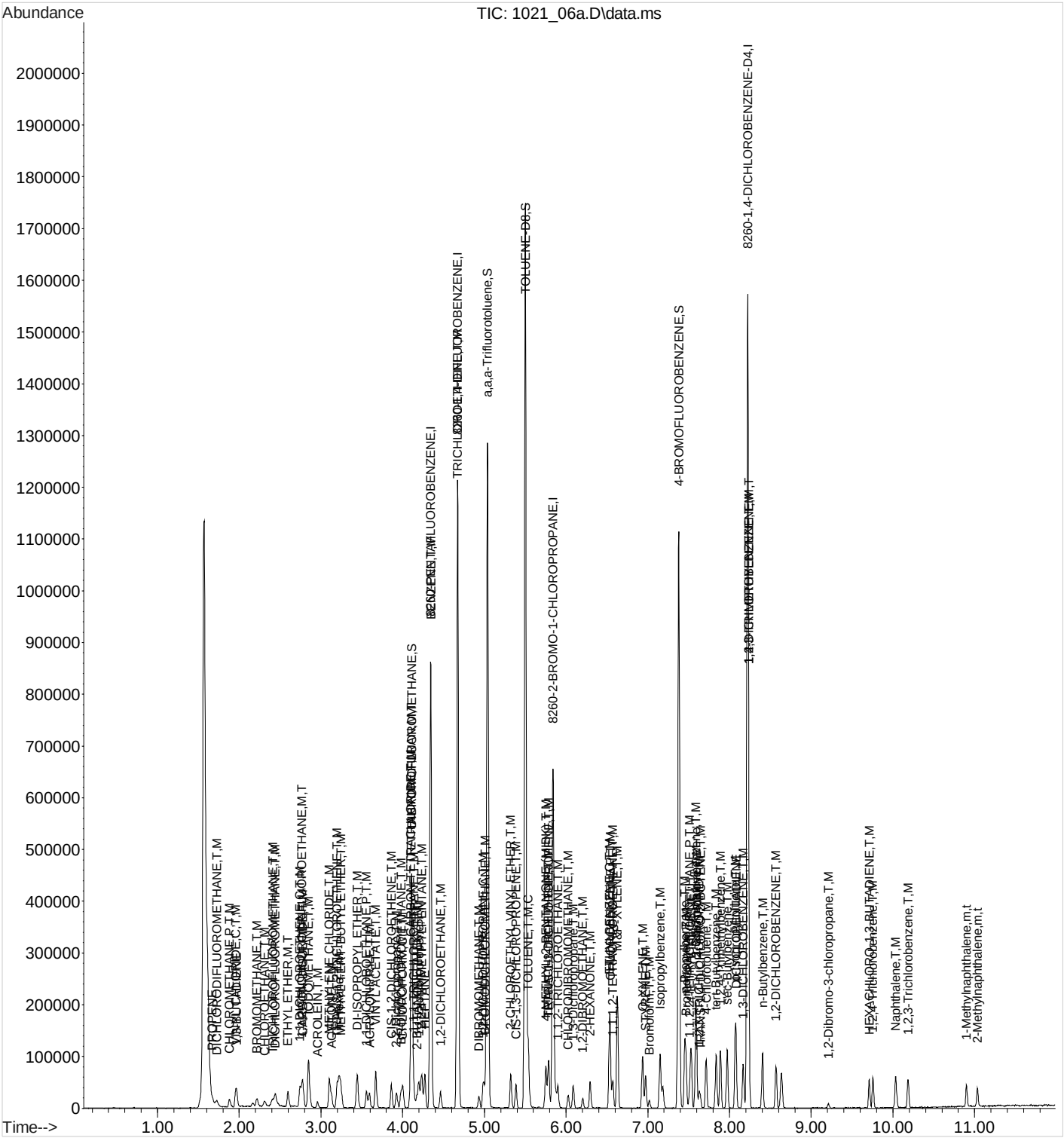
Quant Time: Oct 22 14:28:53 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

	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.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	
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

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 06a.D
Acq On : 21 Oct 2014 10:45 pm
Operator : 644
Sample : STD VMS 2 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:28:53 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 07a.D
Acq On : 21 Oct 2014 11:04 pm
Operator : 644
Sample : STD VMS 5 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:29:57 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.344	168	398759	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	734846	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	121077	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	325211	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	229776	40.7647933 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.91%		
46) a,a,a-Trifluorotoluene	5.039	146	431932	44.0186261 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 110.05%		
50) TOLUENE-D8	5.502	98	1010773	43.3589594 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 108.40%		
68) 4-BROMOFLUOROBENZENE	7.380	95	382534	42.5945661 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 106.49%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7605164m	Below Cal	
3) PROPENE	1.676	41	4355	5.3215894 ppb #	79
4) DICHLORODIFLUOROMETHANE	1.727	85	33321	5.1081911 ppb	97
5) CHLOROMETHANE	1.885	50	43014	4.8119962 ppb	99
6) VINYL CHLORIDE	1.956	62	46358	4.7692124 ppb	97
7) 1,3-BUTADIENE	1.972	39	26622	4.6783828 ppb	98
8) BROMOMETHANE	2.216	94	21138	6.2556027 ppb	97
9) CHLOROETHANE	2.316	66	9130	5.1275734 ppb	98
10) TRICHLOROFLUOROMETHANE	2.409	101	36653	4.9011176 ppb	98
11) DICHLOROFLUOROMETHANE	2.441	67	60067	4.7950963 ppb	97
12) ETHYL ETHER	2.599	59	34661	4.9223627 ppb	98
13) ACROLEIN	2.959	56	22977	22.9386407 ppb	98
14) 1,1-DICHLOROETHENE	2.743	61	53002	4.8381279 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.766	101	26634	5.0744530 ppb	99
16) ACETONE	3.132	43	48209	28.2926222 ppb	98
17) IODOMETHANE	2.849	142	260511	24.2054743 ppb	100
18) CARBON DISULFIDE	2.779	76	116001	4.8667102 ppb	97
19) METHYLENE CHLORIDE	3.107	84	44710	5.2602224 ppb	97
20) ACRYLONITRILE	3.592	53	49062	21.7866597 ppb	99
21) n-Hexane	3.222	56	32183	4.6853292 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.197	96	36022	4.6505586 ppb	99
23) METHYL TERT-BUTYL ETHER	3.245	73	98524	4.6295572 ppb #	100
24) 1,1-DICHLOROETHANE	3.560	63	67357	4.8110495 ppb	96
25) VINYL ACETATE	3.672	43	231053	22.1086627 ppb	100
26) DI-ISOPROPYL ETHER	3.444	45	112501	4.4638673 ppb	97
27) 2,2-Dichloropropane	3.923	77	39938	4.9104168 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.862	96	41234	4.8056143 ppb	97
29) 2-BUTANONE (MEK)	4.171	72	18366	22.3072825 ppb	99
30) BROMOCHLOROMETHANE	3.981	130	23489	4.9224317 ppb	99
31) TETRAHYDROFURAN	4.103	42	9153	5.2408136 ppb	97
32) CHLOROFORM	4.004	83	66082	4.8363431 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.135	97	47362	4.7359709 ppb	99
35) CARBON TETRACHLORIDE	4.097	117	40982	4.9272437 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 07a.D
Acq On : 21 Oct 2014 11:04 pm
Operator : 644
Sample : STD VMS 5 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:29:57 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	4.200	75	48747	4.5876620	ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.235	57	137062	4.8151832	ppb		100
38) HEPTANE	4.274	43	51700	4.6015577	ppb	#	98
39) BENZENE	4.344	78	156745	4.7397133	ppb		96
40) 1,2-DICHLOROETHANE	4.463	62	50800	4.7699388	ppb		99
42) TRICHLOROETHENE	4.669	130	36646	5.1891200	ppb		98
43) 1,2-DICHLOROPROPANE	4.988	62	26045	4.7371620	ppb		98
44) DIBROMOMETHANE	4.933	93	21085	5.1954861	ppb		94
45) BROMODICHLOROMETHANE	5.010	83	48660	4.8413090	ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	67591	19.9626100	ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	59241	4.7495419	ppb		98
49) 4-METHYL-2-PENTANONE (...	5.753	58	52827	22.6899821	ppb		99
51) TOLUENE	5.534	91	166744	5.0359620	ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	12298	4.8297698	ppb		93
54) 1,1,2-TRICHLOROETHANE	5.901	97	30894	5.0176279	ppb		97
55) TETRACHLOROETHENE	5.785	164	23600	5.0755159	ppb		96
56) 1,3-Dichloropropane	6.087	76	54991	4.8166595	ppb		99
57) 2-HEXANONE	6.293	58	48049	21.1170797	ppb		97
58) CHLORODIBROMOMETHANE	6.026	129	28437	4.6323048	ppb		98
59) 1,2-DIBROMOETHANE	6.203	107	29151	4.9501699	ppb		97
60) CHLOROBENZENE	6.537	112	102195	4.8352356	ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	29876	4.6967884	ppb	#	96
62) ETHYLBENZENE	6.531	106	54973	4.6966096	ppb		100
63) M&P-XYLENE	6.627	106	140745	9.6229620	ppb		96
64) O-XYLENE	6.936	106	66786	4.6729451	ppb		98
65) STYRENE	6.975	104	81777	3.8368286	ppb		97
66) Bromoform	7.020	173	15728	4.7479230	ppb		96
67) Isopropylbenzene	7.151	105	168070	4.6699169	ppb		99
69) Bromobenzene	7.470	77	83264	4.8813573	ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.512	83	35482	4.6035576	ppb		96
71) 1,2,3-TRICHLOROPROPANE	7.627	110	10779	4.7306248	ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.643	53	8979	4.0695680	ppb		89
73) n-Propylbenzene	7.454	91	212843	4.8485074	ppb		99
74) 4-ETHYLTOLUENE	7.531	105	171617	4.6747171	ppb		98
75) 2-Chlorotoluene	7.592	126	42935	5.1202291	ppb		93
76) 4-Chlorotoluene	7.714	91	132843	4.7472909	ppb		98
77) 1,3,5-Trimethylbenzene	7.589	105	148285	4.7488335	ppb		99
78) tert-Butylbenzene	7.836	119	115753	4.5766522	ppb		97
79) 1,2,4-Trimethylbenzene	7.891	105	152272	4.7173771	ppb		100
80) sec-Butylbenzene	7.971	105	189968	4.6796495	ppb		98
81) 1,3-DICHLOROBENZENE	8.167	146	77081	4.9396941	ppb		97
82) p-Isopropyltoluene	8.074	119	151012	4.6480196	ppb		99
83) DICYCLOPENTADIENE	8.077	66	152461	4.1859633	ppb		96
85) 1,4-DICHLOROBENZENE	8.235	146	79079	5.1234020	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	158440	4.7374620	ppb		99
87) 1,2-DICHLOROBENZENE	8.569	146	69334	4.7011386	ppb		98
88) n-Butylbenzene	8.405	91	143721	4.5220045	ppb		99
89) 1,2-Dibromo-3-chloropr...	9.209	157	5227	4.2914721	ppb		92
90) 1,2,4-Trichlorobenzene	9.756	180	39383	4.5052155	ppb		96
91) HEXACHLORO-1,3-BUTADIENE	9.714	225	21137	4.7271811	ppb		98
92) Naphthalene	10.032	128	92529	4.2008032	ppb		98
93) 1,2,3-Trichlorobenzene	10.187	180	37433	4.6990790	ppb		98
94) 1-Methylnaphthalene	10.900	142	47800	4.0866005	ppb		99
95) 2-Methylnaphthalene	11.036	142	44237	4.2665396	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 07a.D
Acq On : 21 Oct 2014 11:04 pm
Operator : 644
Sample : STD VMS 5 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:29:57 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

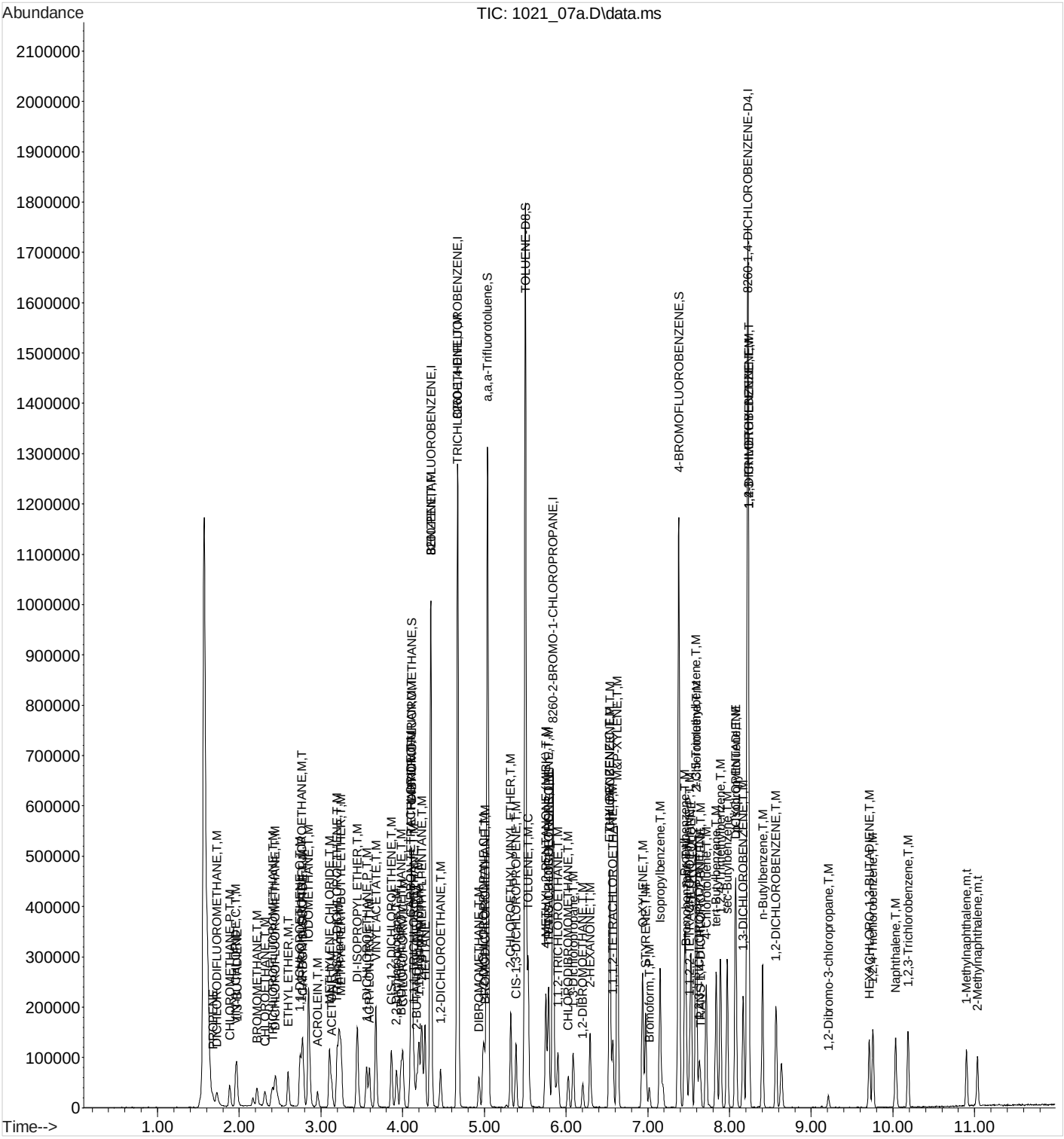
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 07a.D
Acq On : 21 Oct 2014 11:04 pm
Operator : 644
Sample : STD VMS 5 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:29:57 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 08a.D
Acq On : 21 Oct 2014 11:22 pm
Operator : 644
Sample : STD VMS 10 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:31:03 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	391887	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	734240	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	118883	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	327533	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	236445	42.6835326 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.71%		
46) a,a,a-Trifluorotoluene	5.039	146	437355	44.6080761 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 111.52%		
50) TOLUENE-D8	5.502	98	1028430	44.1527999 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 110.38%		
68) 4-BROMOFLUOROBENZENE	7.380	95	393262	44.5972455 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 111.49%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6461045m	Below Cal	
3) PROPENE	1.669	41	7351	9.1400646 ppb	91
4) DICHLORODIFLUOROMETHANE	1.721	85	59399	9.2656924 ppb	96
5) CHLOROMETHANE	1.878	50	78055	8.8851715 ppb	97
6) VINYL CHLORIDE	1.952	62	86684	9.0742462 ppb	98
7) 1,3-BUTADIENE	1.965	39	52197	9.3336231 ppb	99
8) BROMOMETHANE	2.213	94	37256	11.2189221 ppb	98
9) CHLOROETHANE	2.309	66	18130	10.3606871 ppb	89
10) TRICHLOROFLUOROMETHANE	2.406	101	68580	9.3310973 ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	116842	9.4909572 ppb	98
12) ETHYL ETHER	2.595	59	63616	9.1928151 ppb	99
13) ACROLEIN	2.955	56	41539	42.1968502 ppb	98
14) 1,1-DICHLOROETHENE	2.740	61	96868	8.9973592 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	47399	9.1890720 ppb	98
16) ACETONE	3.129	43	78922	47.1294966 ppb	98
17) IODOMETHANE	2.846	142	483579	45.7198297 ppb	100
18) CARBON DISULFIDE	2.775	76	211995	9.0500089 ppb	96
19) METHYLENE CHLORIDE	3.100	84	81037	9.7013559 ppb	100
20) ACRYLONITRILE	3.592	53	95541	43.1702760 ppb	99
21) n-Hexane	3.219	56	59878	8.8701408 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.193	96	67843	8.9123448 ppb	97
23) METHYL TERT-BUTYL ETHER	3.242	73	188444	9.0100951 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	122946	8.9355468 ppb	99
25) VINYL ACETATE	3.669	43	435763	42.4278334 ppb	100
26) DI-ISOPROPYL ETHER	3.441	45	213104	8.6039155 ppb	97
27) 2,2-Dichloropropane	3.923	77	75231	9.4119263 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.862	96	77280	9.1645300 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	35957	44.4390922 ppb	95
30) BROMOCHLOROMETHANE	3.978	130	42600	9.0839432 ppb	99
31) TETRAHYDROFURAN	4.107	42	15899	9.2630648 ppb	97
32) CHLOROFORM	4.000	83	123115	9.1684207 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.135	97	91324	9.2920931 ppb	98
35) CARBON TETRACHLORIDE	4.094	117	71354	8.7292887 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 08a.D
Acq On : 21 Oct 2014 11:22 pm
Operator : 644
Sample : STD VMS 10 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:31:03 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	91415	8.7540823 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	253796	9.0725666 ppb		99
38) HEPTANE	4.271	43	97705	8.8487263 ppb	#	98
39) BENZENE	4.344	78	295664	9.0971732 ppb		100
40) 1,2-DICHLOROETHANE	4.463	62	94299	9.0096065 ppb		99
42) TRICHLOROETHENE	4.666	130	66796	9.4662045 ppb		99
43) 1,2-DICHLOROPROPANE	4.988	62	49623	9.0330660 ppb		99
44) DIBROMOMETHANE	4.933	93	37795	9.3206292 ppb		99
45) BROMODICHLOROMETHANE	5.007	83	91592	9.1202456 ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	139262	41.1641708 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	113799	9.1311628 ppb		97
49) 4-METHYL-2-PENTANONE (...	5.753	58	97877	42.0743242 ppb		95
51) TOLUENE	5.534	91	313230	9.4679046 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.791	110	23643	9.2929332 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.901	97	54879	9.0776282 ppb		99
55) TETRACHLOROETHENE	5.782	164	42914	9.3995937 ppb		99
56) 1,3-Dichloropropane	6.087	76	104279	9.3023587 ppb		97
57) 2-HEXANONE	6.293	58	91959	41.1609738 ppb		98
58) CHLORODIBROMOMETHANE	6.026	129	54480	9.0384163 ppb		97
59) 1,2-DIBROMOETHANE	6.203	107	51855	8.9680740 ppb		97
60) CHLOROBENZENE	6.537	112	193811	9.3391706 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	57455	9.1991621 ppb		99
62) ETHYLBENZENE	6.531	106	107562	9.3591366 ppb		100
63) M&P-XYLENE	6.627	106	267106	18.5995029 ppb		97
64) O-XYLENE	6.936	106	126185	8.9919705 ppb		99
65) STYRENE	6.975	104	183307	8.7591542 ppb		95
66) Bromoform	7.016	173	30048	9.2382058 ppb		97
67) Isopropylbenzene	7.151	105	319713	9.0473449 ppb		99
69) Bromobenzene	7.470	77	156974	9.3724461 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	67937	8.9770522 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.627	110	20684	9.2452031 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.647	53	18472	8.5266051 ppb		97
73) n-Propylbenzene	7.454	91	398983	9.2564610 ppb		99
74) 4-ETHYLTOLUENE	7.531	105	331485	9.1960390 ppb		100
75) 2-Chlorotoluene	7.592	126	79913	9.7059324 ppb		95
76) 4-Chlorotoluene	7.714	91	248017	9.0267314 ppb		99
77) 1,3,5-Trimethylbenzene	7.589	105	283545	9.2481234 ppb		100
78) tert-Butylbenzene	7.836	119	226251	9.1106227 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	282887	8.9255590 ppb		98
80) sec-Butylbenzene	7.971	105	359131	9.0100597 ppb		99
81) 1,3-DICHLOROBENZENE	8.167	146	142304	9.2877756 ppb		98
82) p-Isopropyltoluene	8.074	119	290820	9.1163851 ppb		98
83) DICYCLOPENTADIENE	8.081	66	304108	8.5036698 ppb		99
85) 1,4-DICHLOROBENZENE	8.235	146	144046	9.2663485 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	296693	8.8084271 ppb		98
87) 1,2-DICHLOROBENZENE	8.569	146	132258	8.9040771 ppb		99
88) n-Butylbenzene	8.405	91	279100	8.7192828 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.212	157	10669	8.6973645 ppb		98
90) 1,2,4-Trichlorobenzene	9.756	180	77512	8.8041186 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	40315	8.9523226 ppb		97
92) Naphthalene	10.032	128	182133	8.2101912 ppb		99
93) 1,2,3-Trichlorobenzene	10.187	180	72014	8.9760489 ppb		99
94) 1-Methylnaphthalene	10.900	142	97129	8.2450515 ppb		99
95) 2-Methylnaphthalene	11.036	142	88471	8.4722978 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 08a.D
Acq On : 21 Oct 2014 11:22 pm
Operator : 644
Sample : STD VMS 10 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:31:03 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

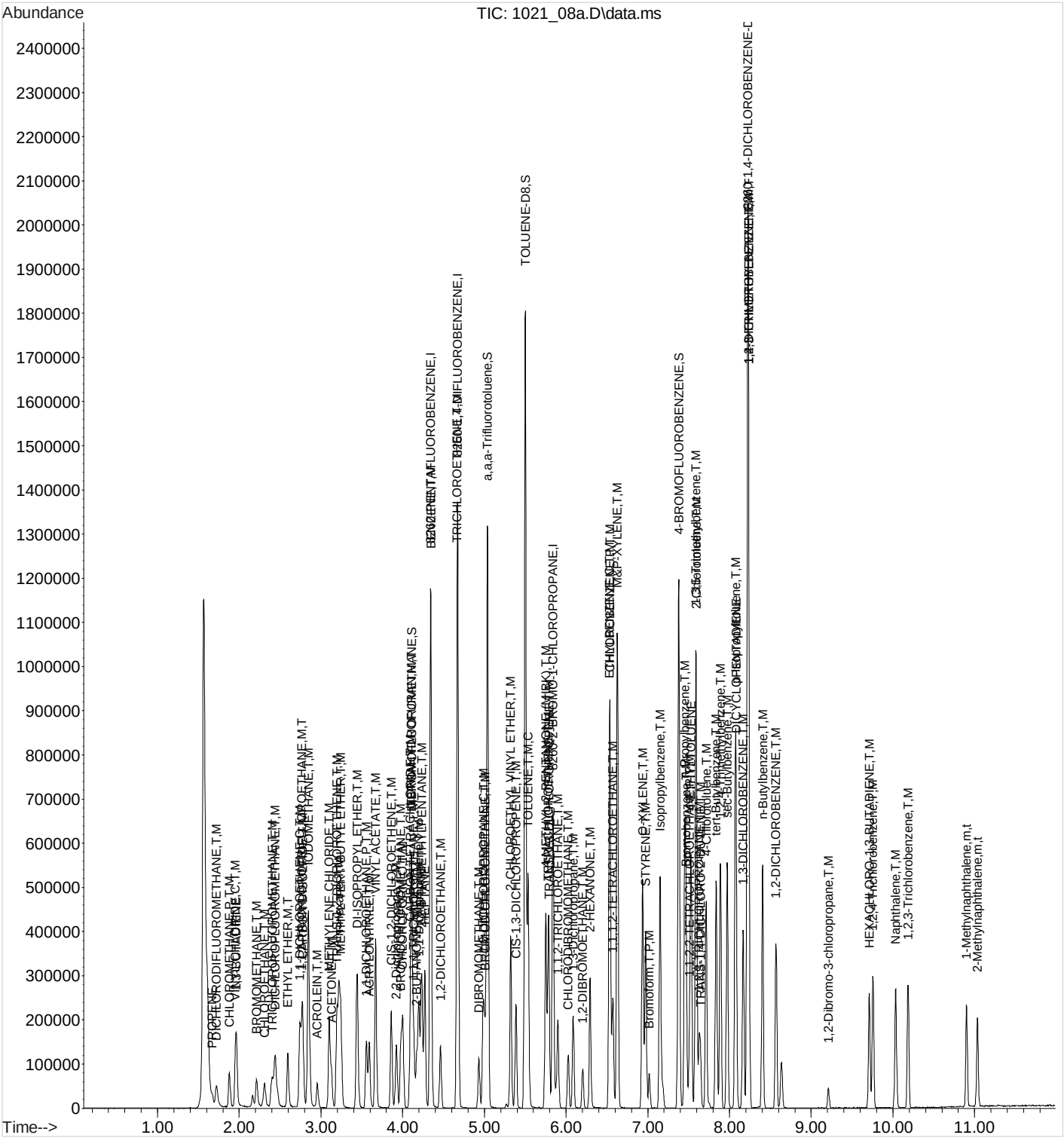
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 08a.D
Acq On : 21 Oct 2014 11:22 pm
Operator : 644
Sample : STD VMS 10 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:31:03 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 09a.D
Acq On : 21 Oct 2014 11:40 pm
Operator : 644
Sample : MSTD VMS 25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:21:21 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 10:47:49 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	387004	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	738987	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	119432	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	317992	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	246171	46.9055663 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 117.26%		
46) a,a,a-Trifluorotoluene	5.039	146	444050	43.7388045 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 109.35%		
50) TOLUENE-D8	5.502	98	1054940	44.7797950 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 111.95%#		
68) 4-BROMOFLUOROBENZENE	7.380	95	398646	45.0537435 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.63%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	1585704m	Below Cal	
3) PROPENE	1.669	41	19856	19.0991625 ppb	95
4) DICHLORODIFLUOROMETHANE	1.724	85	158269	26.9501550 ppb	98
5) CHLOROMETHANE	1.878	50	216885	27.5099775 ppb	100
6) VINYL CHLORIDE	1.955	62	235843	27.3589579 ppb	99
7) 1,3-BUTADIENE	1.965	39	138067	25.7031347 ppb	94
8) BROMOMETHANE	2.209	94	81986	19.2431963 ppb	96
9) CHLOROETHANE	2.312	66	43202	23.8165266 ppb	93
10) TRICHLOROFLUOROMETHANE	2.402	101	181451	27.9600612 ppb	98
11) DICHLOROFLUOROMETHANE	2.441	67	303937	26.2955757 ppb	99
12) ETHYL ETHER	2.595	59	170849	20.9968675 ppb	97
13) ACROLEIN	2.955	56	121518	154.1184629 ppb	99
14) 1,1-DICHLOROETHENE	2.740	61	265803	27.3330469 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	127348	27.0378579 ppb	99
16) ACETONE	3.129	43	206714	65.7724882 ppb	98
17) IODOMETHANE	2.846	142	1305652	131.9525009 ppb	98
18) CARBON DISULFIDE	2.775	76	578324	25.0682280 ppb	98
19) METHYLENE CHLORIDE	3.100	84	206227	13.5871284 ppb	98
20) ACRYLONITRILE	3.592	53	273193	155.2428306 ppb	99
21) n-Hexane	3.219	56	166660	21.2544172 ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.197	96	187935	28.5315682 ppb	99
23) METHYL TERT-BUTYL ETHER	3.242	73	516354	28.6403052 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	339694	27.2360652 ppb	98
25) VINYL ACETATE	3.669	43	1267839	153.6212362 ppb	99
26) DI-ISOPROPYL ETHER	3.444	45	611491	29.6081466 ppb	99
27) 2,2-Dichloropropane	3.923	77	197339	25.8971915 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.862	96	208186	27.9361035 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	99881	149.8408058 ppb	99
30) BROMOCHLOROMETHANE	3.978	130	115779	28.3982636 ppb	99
31) TETRAHYDROFURAN	4.103	42	42375	18.2242962 ppb	96
32) CHLOROFORM	4.004	83	331521	27.3522420 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.135	97	242642	27.4871185 ppb	98
35) CARBON TETRACHLORIDE	4.094	117	201806	27.7342357 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 09a.D
Acq On : 21 Oct 2014 11:40 pm
Operator : 644
Sample : MSTD VMS 25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:21:21 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 10:47:49 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	257811	28.9155757 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	690636	26.2789497 ppb		97
38) HEPTANE	4.270	43	272603	29.2509715 ppb	#	99
39) BENZENE	4.344	78	802392	26.7466238 ppb		100
40) 1,2-DICHLOROETHANE	4.463	62	258402	27.4725476 ppb		99
42) TRICHLOROETHENE	4.669	130	177547	22.1911320 ppb		99
43) 1,2-DICHLOROPROPANE	4.987	62	138225	27.3239943 ppb		100
44) DIBROMOMETHANE	4.933	93	102030	26.3744737 ppb		97
45) BROMODICHLOROMETHANE	5.007	83	252691	26.0911553 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	425620	172.1941858 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.386	75	313582	29.5032305 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.753	58	292666	157.2897609 ppb		100
51) TOLUENE	5.534	91	832431	25.7442979 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	64016	29.3047342 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.901	97	151836	26.4906074 ppb		99
55) TETRACHLOROETHENE	5.782	164	114665	24.7641449 ppb		98
56) 1,3-Dichloropropane	6.087	76	281543	25.8156345 ppb		99
57) 2-HEXANONE	6.293	58	280556	168.1506259 ppb		100
58) CHLORODIBROMOMETHANE	6.026	129	151386	28.8312535 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	145222	27.5658562 ppb		97
60) CHLOROBENZENE	6.537	112	521208	26.0480000 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.573	133	156863	26.5740399 ppb		100
62) ETHYLBENZENE	6.531	106	288645	27.6583109 ppb		97
63) M&P-XYLENE	6.627	106	721362	55.7883702 ppb		100
64) O-XYLENE	6.936	106	352447	28.6599005 ppb		98
65) STYRENE	6.975	104	525603	29.9494898 ppb		97
66) Bromoform	7.020	173	81690	28.4149411 ppb		100
67) Isopropylbenzene	7.151	105	887524	29.4646945 ppb		100
69) Bromobenzene	7.466	77	420645	26.3473631 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	190070	27.5814006 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.630	110	56190	28.9211582 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.647	53	54410	33.7231202 ppb		96
73) n-Propylbenzene	7.454	91	1082556	26.5648016 ppb		99
74) 4-ETHYLTOLUENE	7.531	105	905324	27.5184652 ppb		99
75) 2-Chlorotoluene	7.592	126	206786	26.3109295 ppb		97
76) 4-Chlorotoluene	7.714	91	690068	27.7214033 ppb		100
77) 1,3,5-Trimethylbenzene	7.589	105	770033	27.9443104 ppb		100
78) tert-Butylbenzene	7.836	119	623711	28.8189013 ppb		99
79) 1,2,4-Trimethylbenzene	7.891	105	796010	28.6549997 ppb		99
80) sec-Butylbenzene	7.971	105	1001074	29.5197047 ppb		100
81) 1,3-DICHLOROBENZENE	8.167	146	384810	25.7418959 ppb		98
82) p-Isopropyltoluene	8.074	119	801203	30.4504151 ppb		100
83) DICYCLOPENTADIENE	8.077	66	898178	34.2209703 ppb		100
85) 1,4-DICHLOROBENZENE	8.235	146	377306	24.8115276 ppb		100
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	817542	27.8405619 ppb		99
87) 1,2-DICHLOROBENZENE	8.569	146	360524	27.1392745 ppb		98
88) n-Butylbenzene	8.405	91	776927	29.9665617 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.212	157	29774	32.1866056 ppb		96
90) 1,2,4-Trichlorobenzene	9.756	180	213690	29.1700850 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	109303	27.0795658 ppb		99
92) Naphthalene	10.032	128	538439	30.4870445 ppb		99
93) 1,2,3-Trichlorobenzene	10.187	180	194730	27.6758086 ppb		100
94) 1-Methylnaphthalene	10.900	142	285928	30.6227935 ppb		98
95) 2-Methylnaphthalene	11.035	142	253455	32.5151883 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 09a.D
Acq On : 21 Oct 2014 11:40 pm
Operator : 644
Sample : MSTD VMS 25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:21:21 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 10:47:49 2014
Response via : Initial Calibration

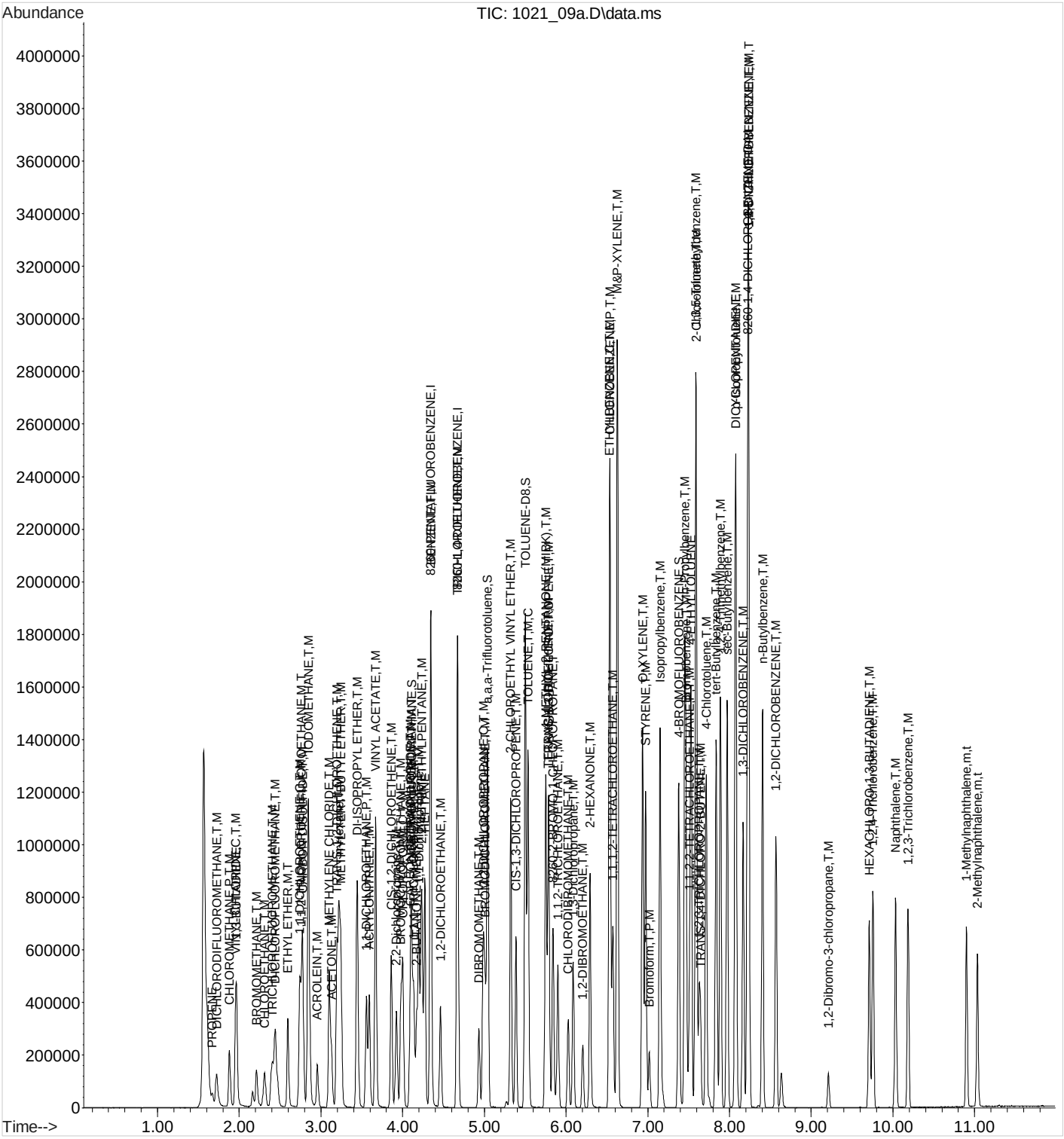
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

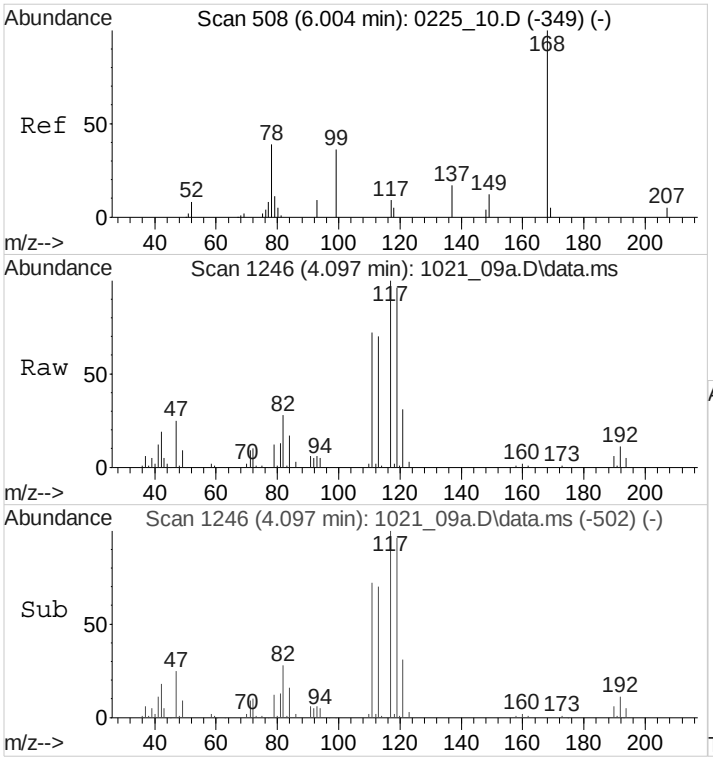
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 09a.D
Acq On : 21 Oct 2014 11:40 pm
Operator : 644
Sample : MSTD VMS 25 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

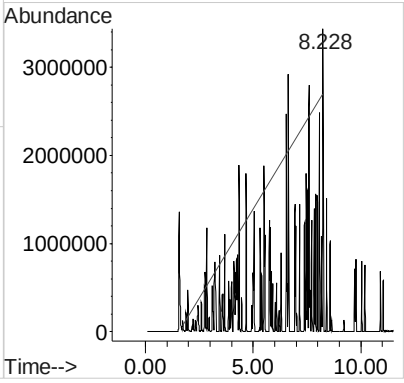
Quant Time: Oct 22 14:21:21 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 10:47:49 2014
Response via : Initial Calibration

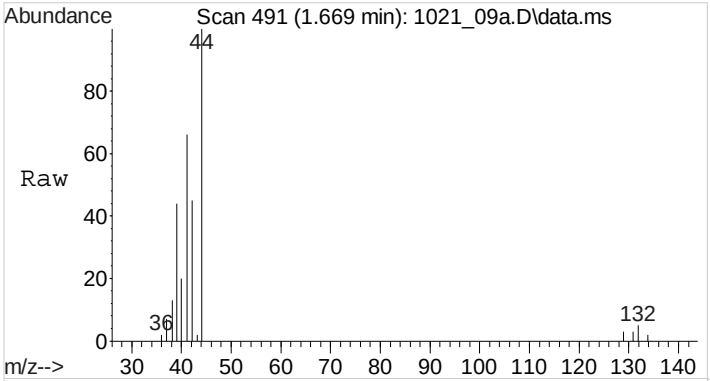




#2
TPH (GC/MS) LOW FRACTION
Concen: Below Cal m
RT: 4.096 min Scan# 1246
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:TIC Resp: 1585704

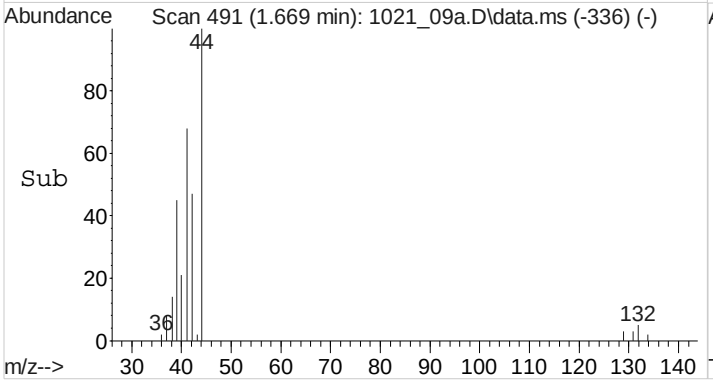


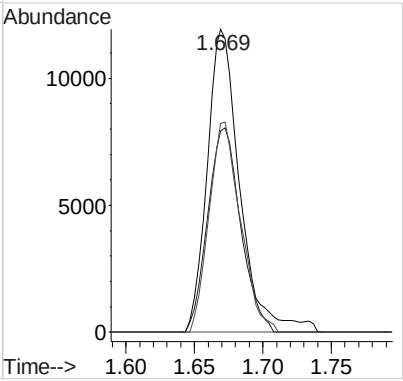


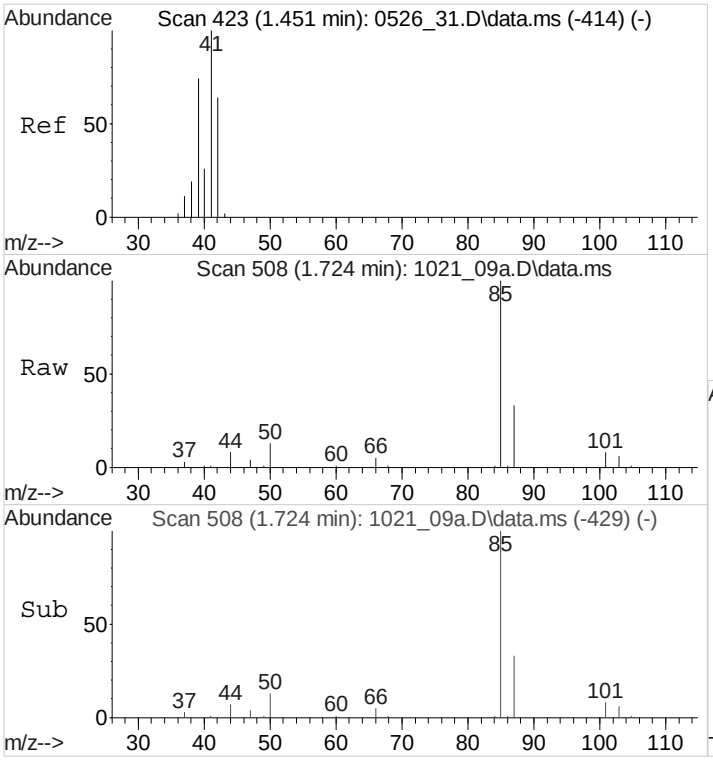
#3
PROPENE
Concen: 19.0991625 ppb
RT: 1.669 min Scan# 491
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 41 Resp: 19856

Ion	Ratio	Lower	Upper
41	100		
39	67.7	57.8	86.8
42	66.5	51.0	76.6



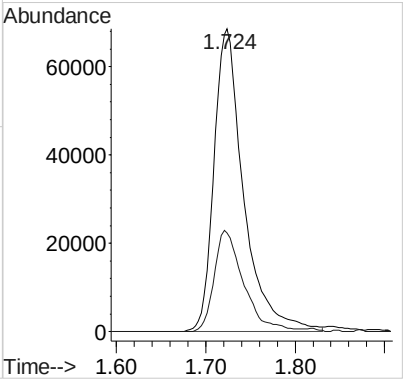


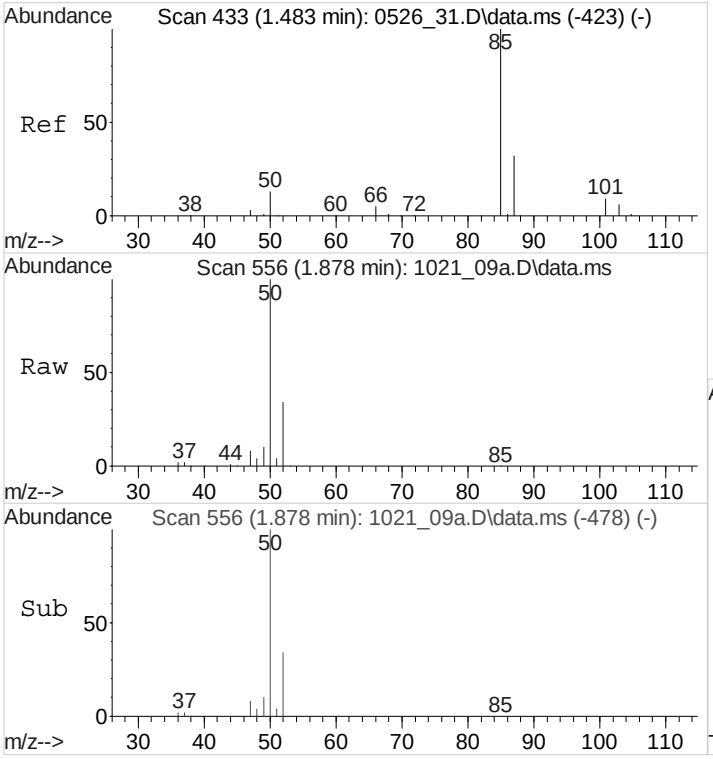


#4
DICHLORODIFLUOROMETHANE
Concen: 26.9501550 ppb
RT: 1.724 min Scan# 508
Delta R.T. 0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 85 Resp: 158269

Ion	Ratio	Lower	Upper
85	100		
87	33.1	25.6	38.4

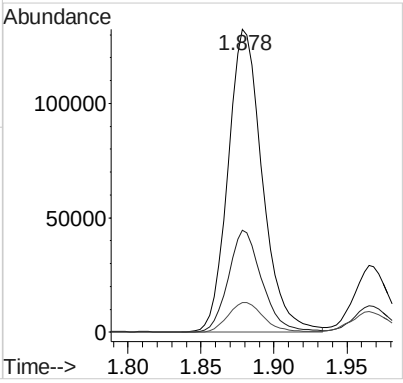


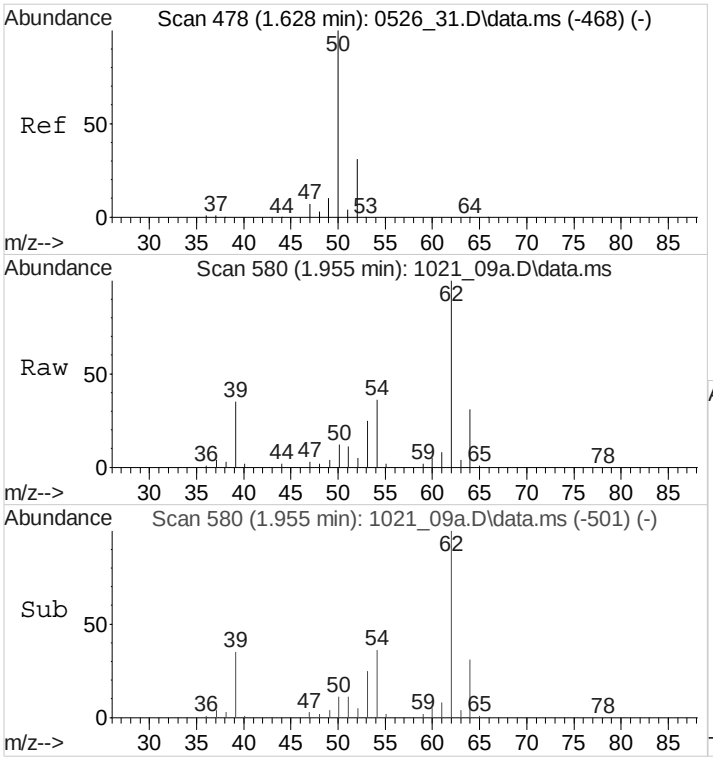


#5
CHLOROMETHANE
Concen: 27.5099775 ppb
RT: 1.878 min Scan# 556
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 50 Resp: 216885

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.1	39.1
49	10.1	8.2	12.2

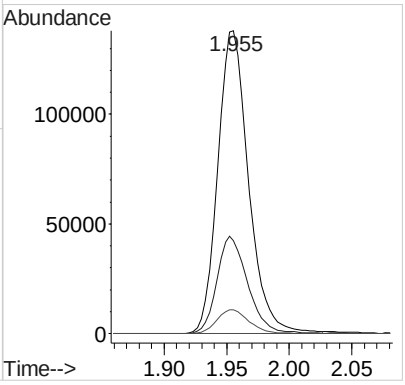


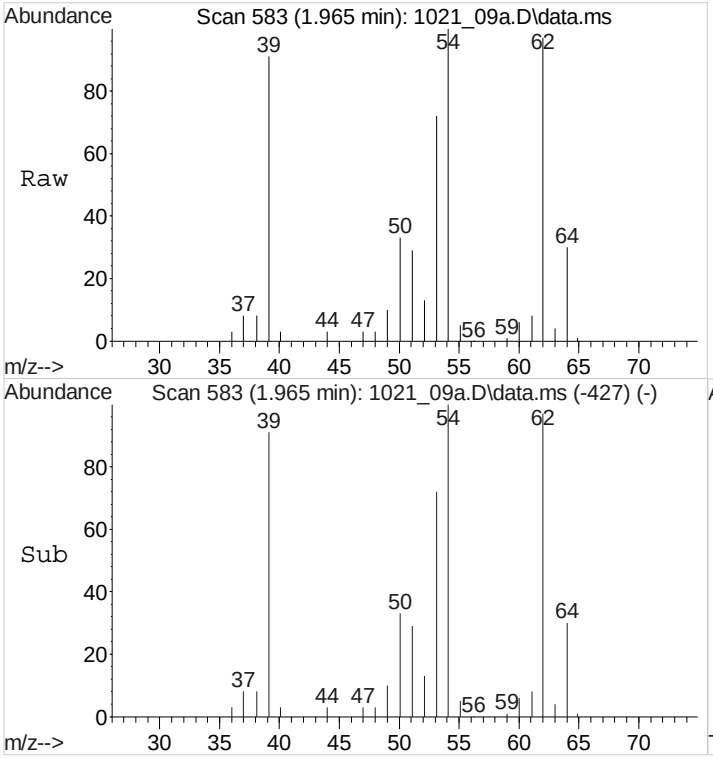


#6
VINYL CHLORIDE
Concen: 27.3589579 ppb
RT: 1.955 min Scan# 580
Delta R.T. 0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 62 Resp: 235843

Ion	Ratio	Lower	Upper
62	100		
64	32.1	26.2	39.4
61	8.3	6.7	10.1

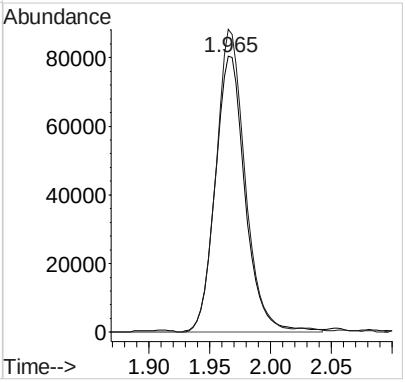


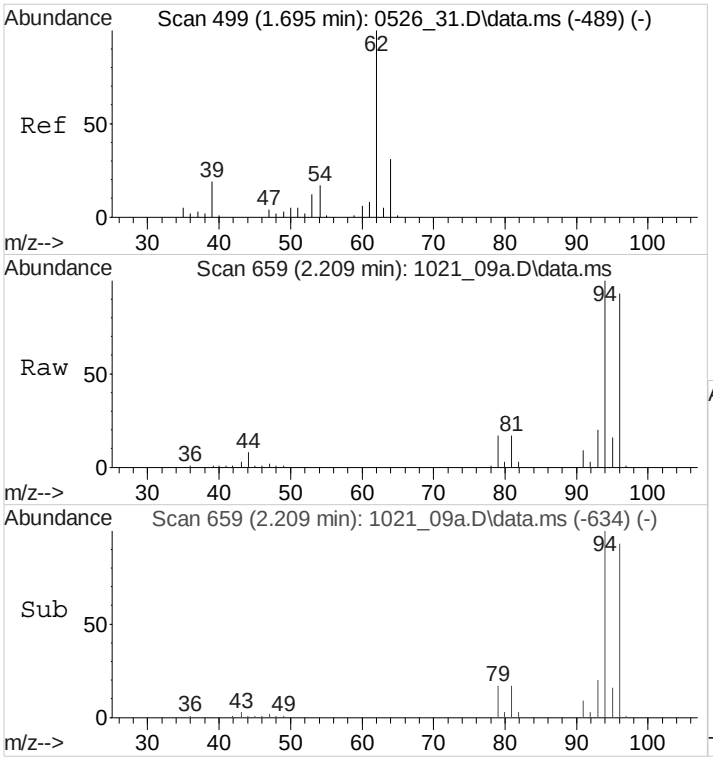


#7
1,3-BUTADIENE
Concen: 25.7031347 ppb
RT: 1.965 min Scan# 583
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 39 Resp: 138067

Ion	Ratio	Lower	Upper
39	100		
54	106.0	89.6	134.4

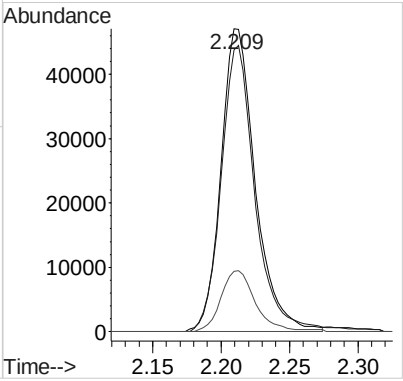


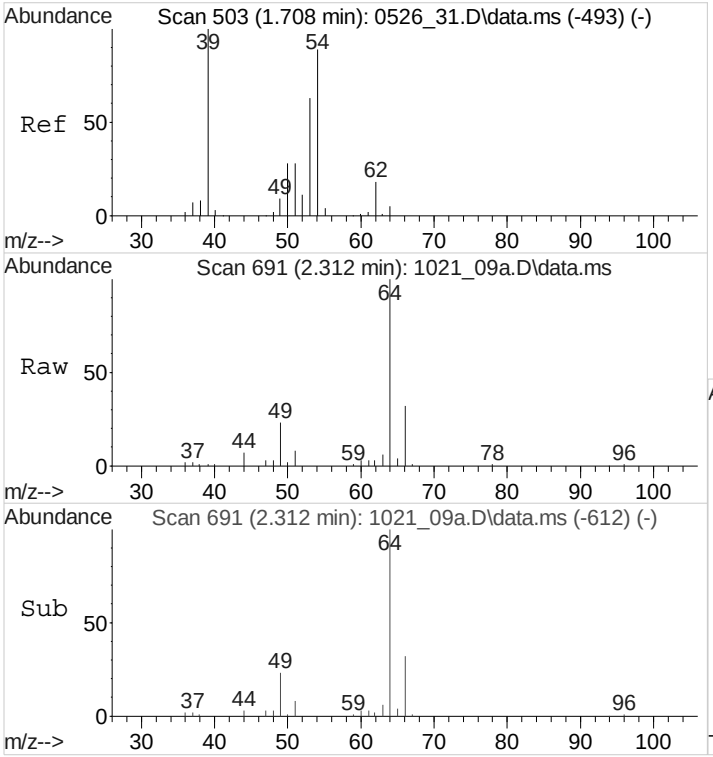


#8
BROMOMETHANE
Concen: 19.2431963 ppb
RT: 2.209 min Scan# 659
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 94 Resp: 81986

Ion	Ratio	Lower	Upper
94	100		
96	93.5	71.4	107.0
93	20.1	15.4	23.0

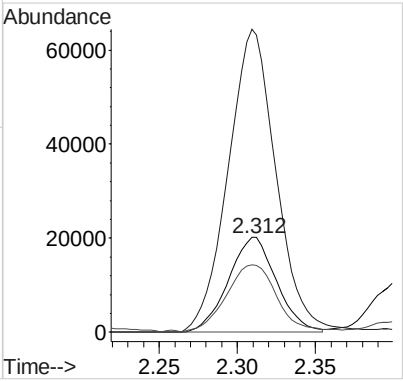


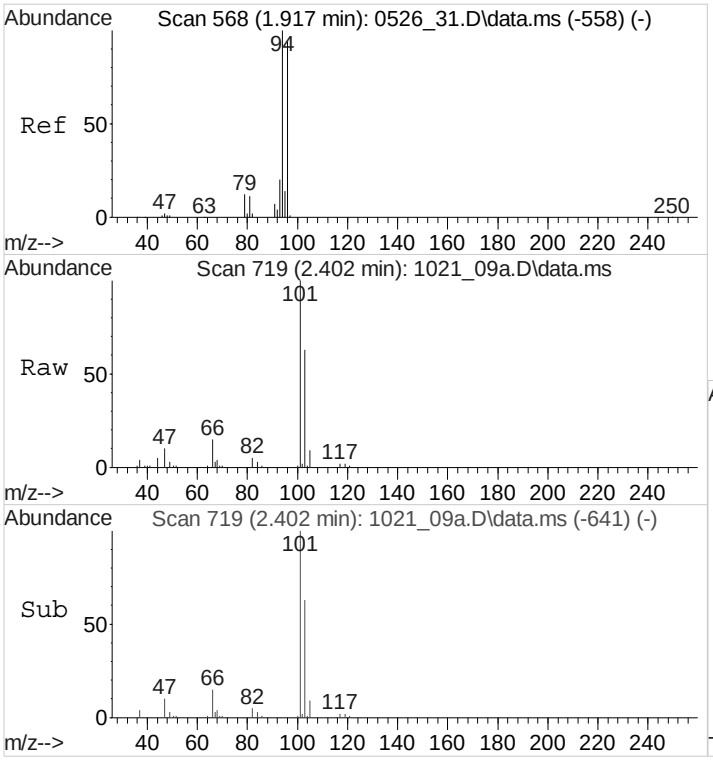


#9
CHLOROETHANE
Concen: 23.8165266 ppb
RT: 2.312 min Scan# 691
Delta R.T. 0.004 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 66 Resp: 43202

Ion	Ratio	Lower	Upper
66	100		
64	318.4	241.4	362.2
49	75.4	58.6	87.8

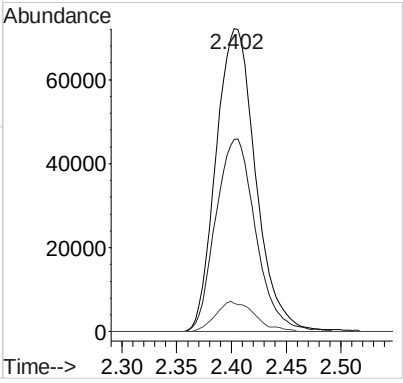


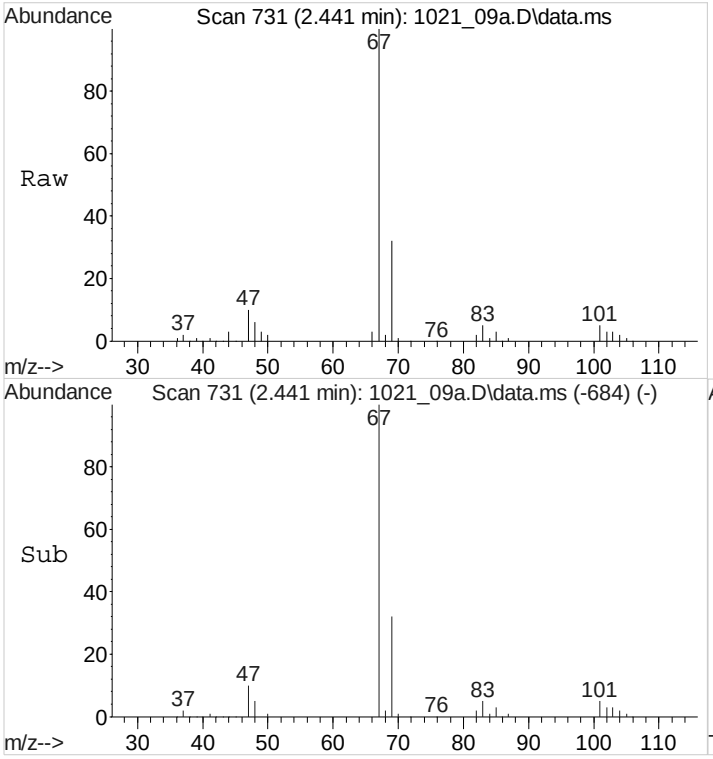


#10
TRICHLOROFLUOROMETHANE
Concen: 27.9600612 ppb
RT: 2.402 min Scan# 719
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:101 Resp: 181451

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.2	75.4
105	9.9	8.4	12.6

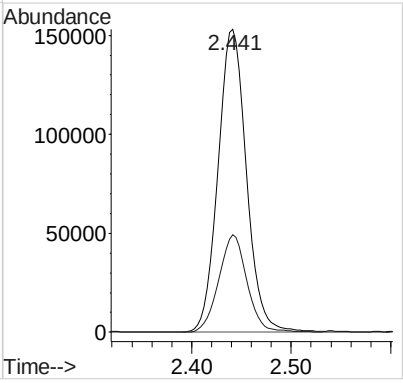


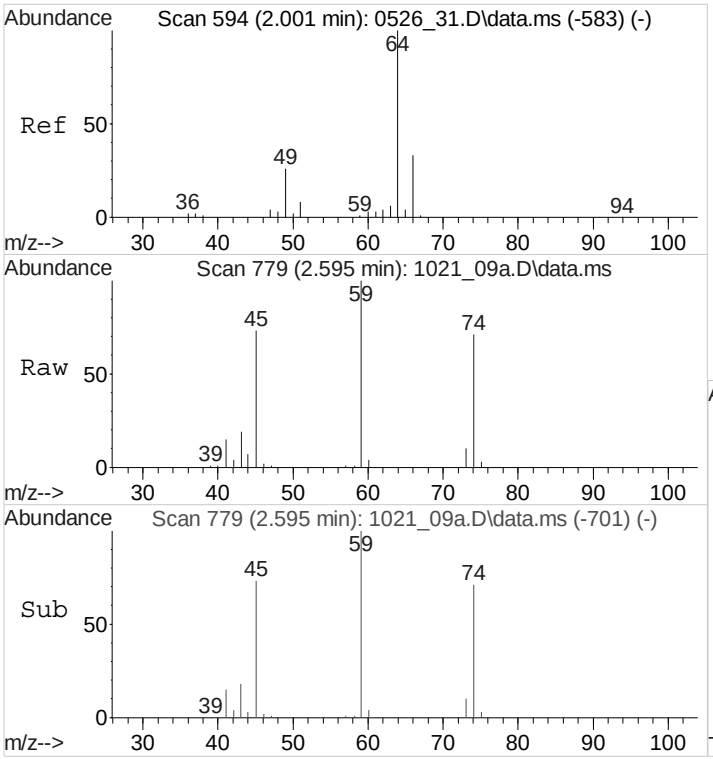


#11
DICHLOROFLUOROMETHANE
Concen: 26.2955757 ppb
RT: 2.441 min Scan# 731
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 67 Resp: 303937

Ion	Ratio	Lower	Upper
67	100		
69	31.9	25.8	38.8

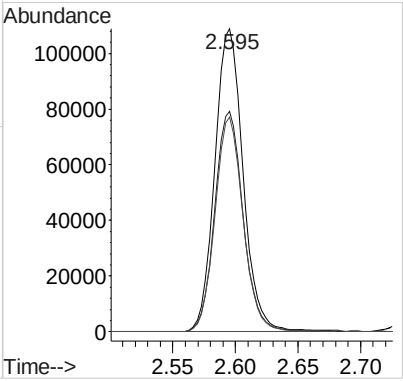


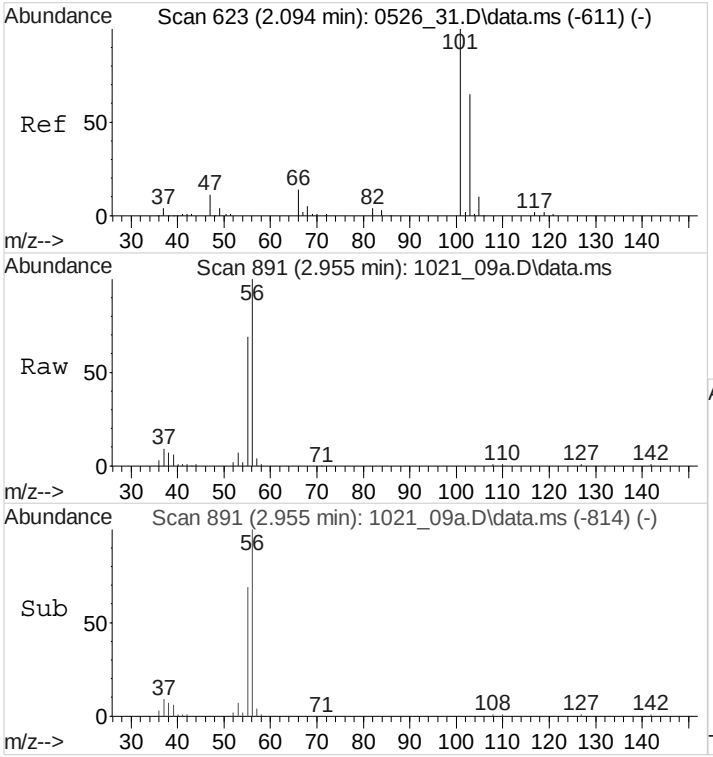


#12
ETHYL ETHER
Concen: 20.9968675 ppb
RT: 2.595 min Scan# 779
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 59 Resp: 170849

Ion	Ratio	Lower	Upper
59	100		
45	73.5	55.8	83.8
74	70.4	57.1	85.7

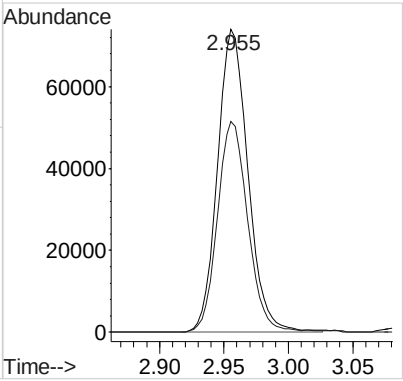


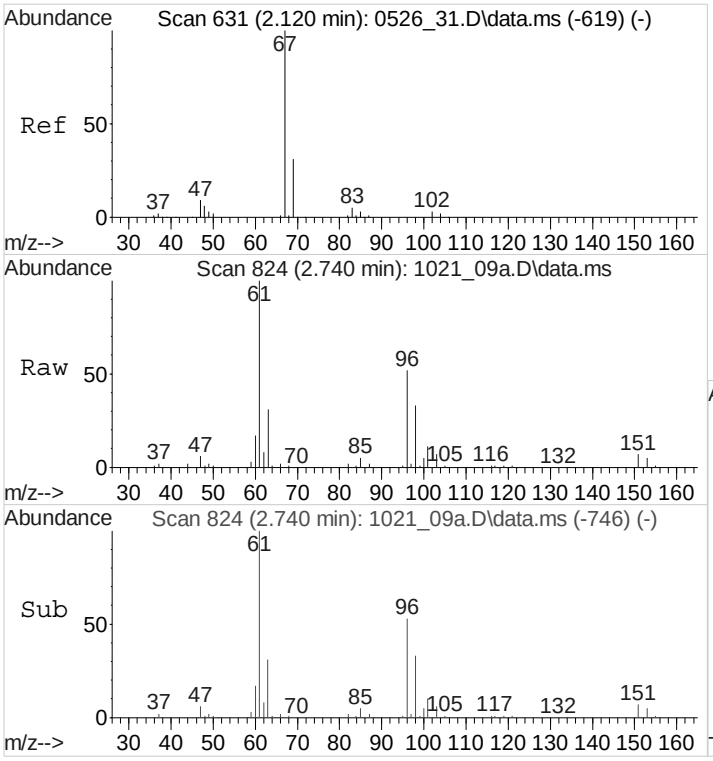


#13
ACROLEIN
Concen: 154.1184629 ppb
RT: 2.955 min Scan# 891
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 56 Resp: 121518

Ion	Ratio	Lower	Upper
56	100		
55	69.0	54.8	82.2

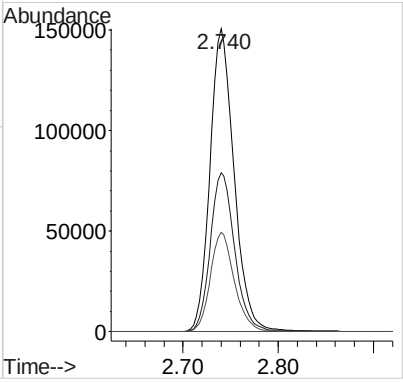


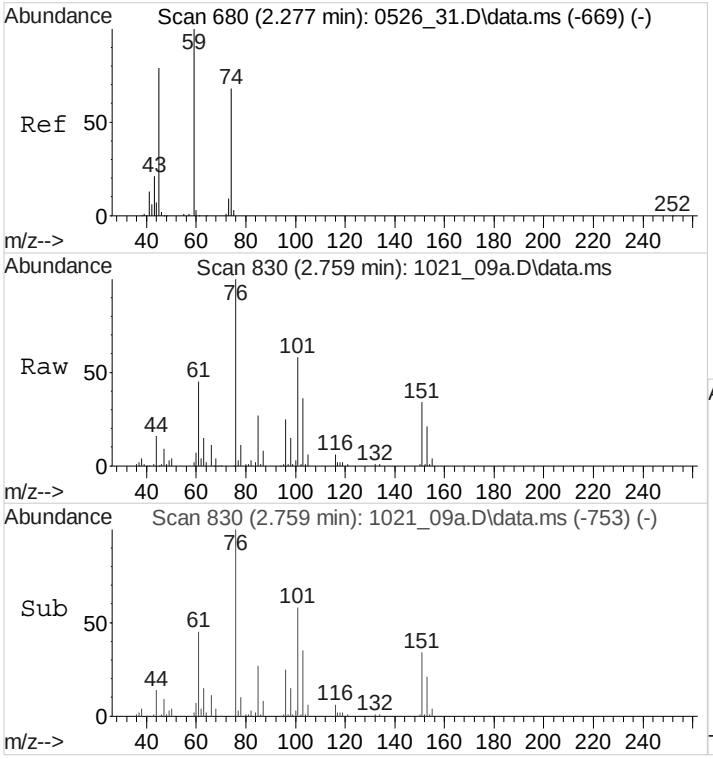


#14
1,1-DICHLOROETHENE
Concen: 27.3330469 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 61 Resp: 265803

Ion	Ratio	Lower	Upper
61	100		
96	52.7	44.7	67.1
98	32.8	28.7	43.1

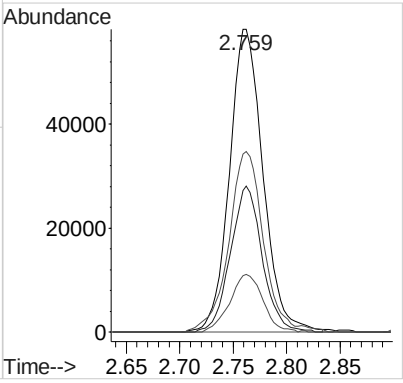


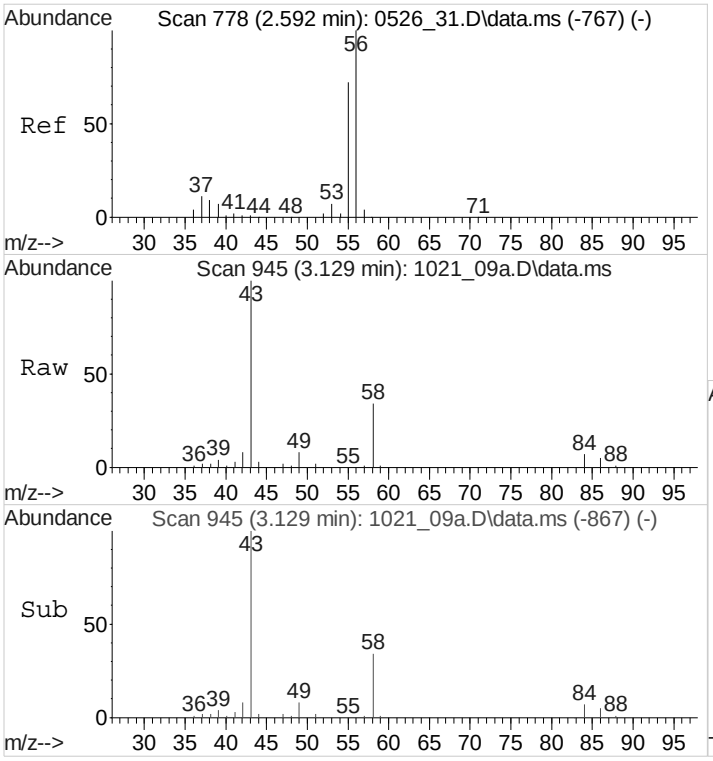


#15
1,1,2-TRICHLOROTRIFLUOROETHANE
Concen: 27.0378579 ppb
RT: 2.759 min Scan# 830
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:101 Resp: 127348

Ion	Ratio	Lower	Upper
101	100		
85	45.8	35.7	53.5
66	18.9	14.6	21.8
151	61.7	49.8	74.8

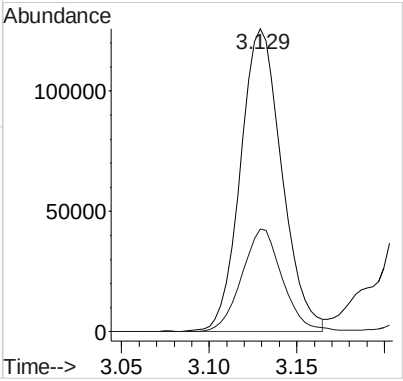


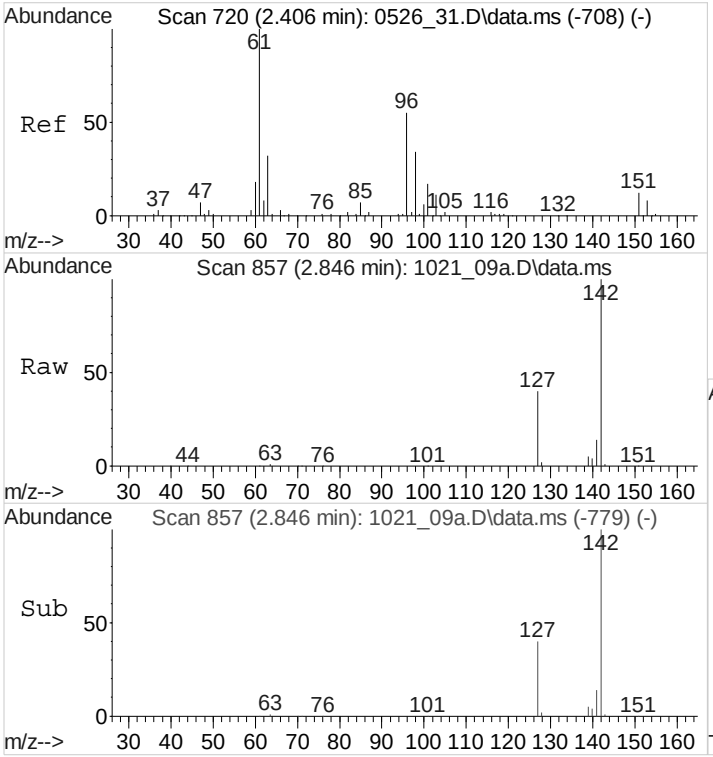


#16
ACETONE
Concen: 65.7724882 ppb
RT: 3.129 min Scan# 945
Delta R.T. 0.001 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 43 Resp: 206714

Ion	Ratio	Lower	Upper
43	100		
58	33.4	26.0	39.0

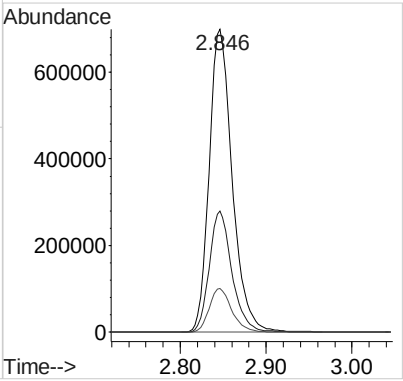


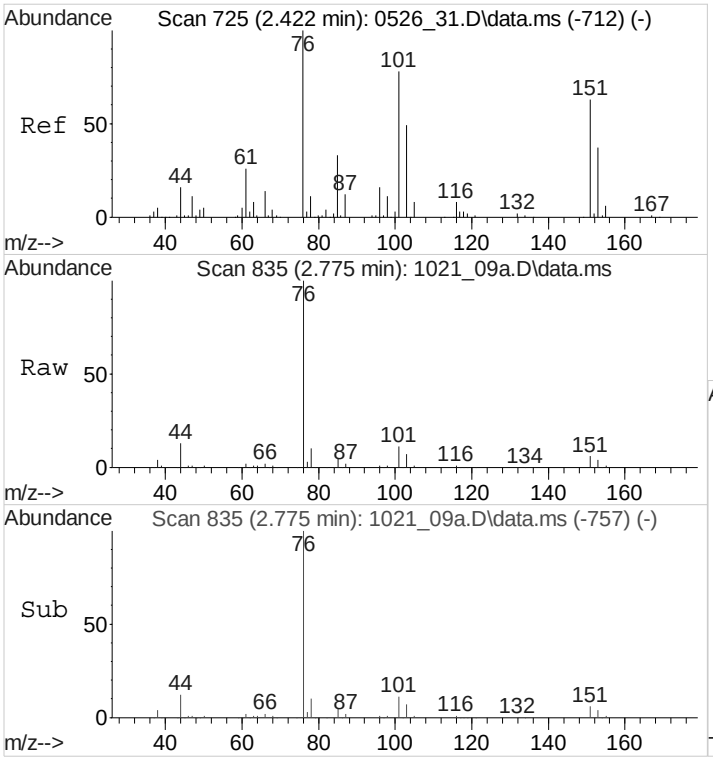


#17
IODOMETHANE
Concen: 131.9525009 ppb
RT: 2.846 min Scan# 857
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:142 Resp: 1305652

Ion	Ratio	Lower	Upper
142	100		
127	39.4	32.8	49.2
141	14.3	11.6	17.4

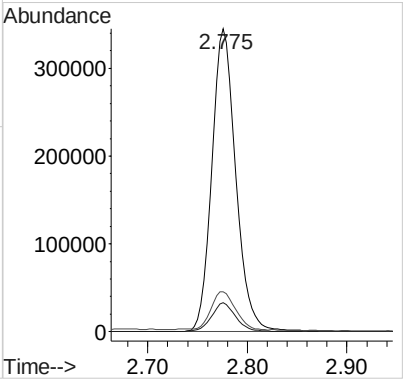


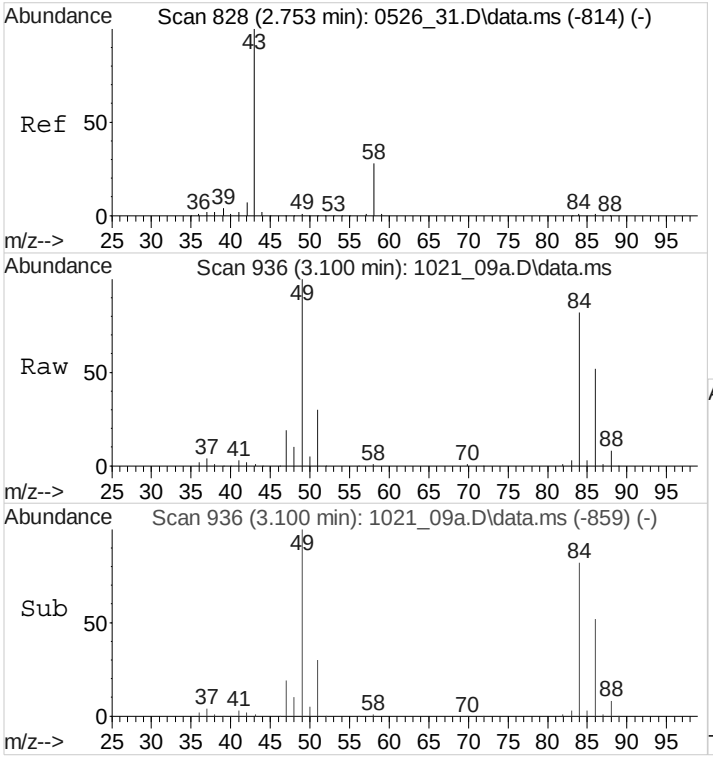


#18
CARBON DISULFIDE
Concen: 25.0682280 ppb
RT: 2.775 min Scan# 835
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 76 Resp: 578324

Ion	Ratio	Lower	Upper
76	100		
78	9.8	8.1	12.1
44	13.3	9.5	14.3

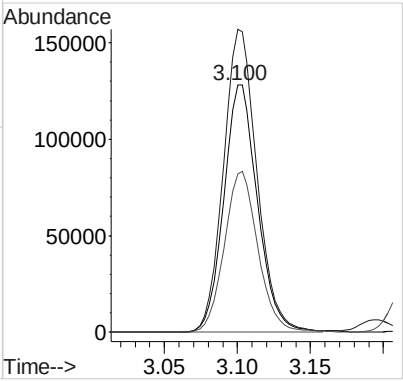


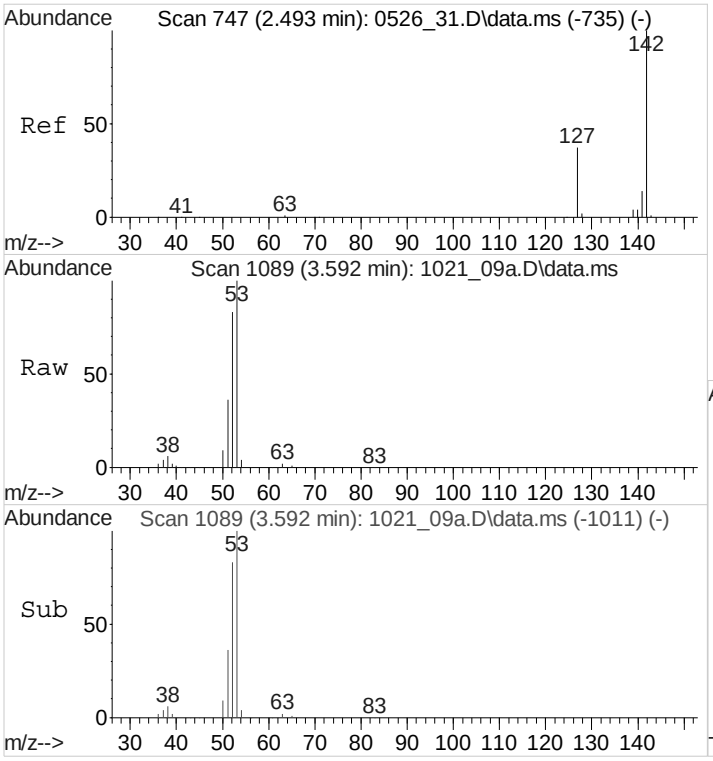


#19
METHYLENE CHLORIDE
Concen: 13.5871284 ppb
RT: 3.100 min Scan# 936
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 84 Resp: 206227

Ion	Ratio	Lower	Upper
84	100		
49	122.2	96.0	144.0
86	64.8	51.1	76.7

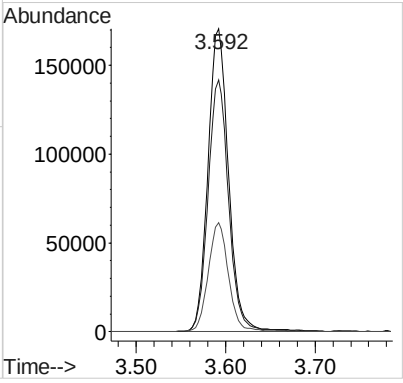


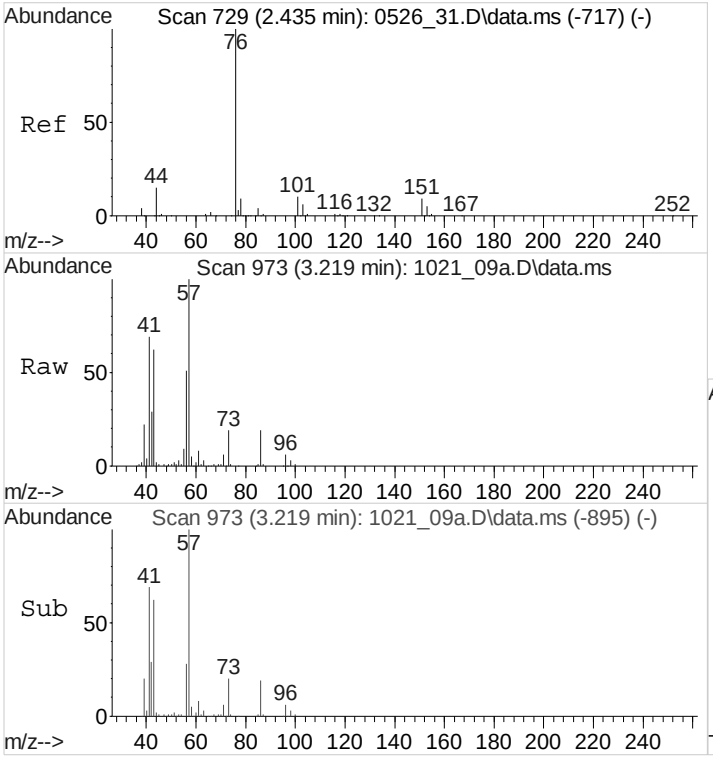


#20
ACRYLONITRILE
Concen: 155.2428306 ppb
RT: 3.592 min Scan# 1089
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 53 Resp: 273193

Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.3	99.5
51	35.2	27.0	40.4

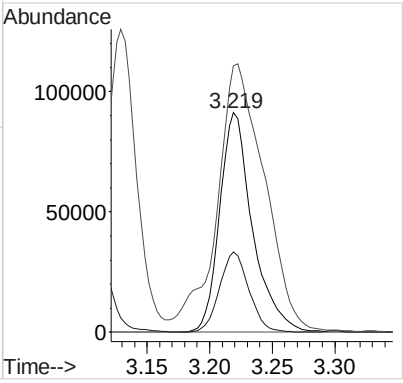


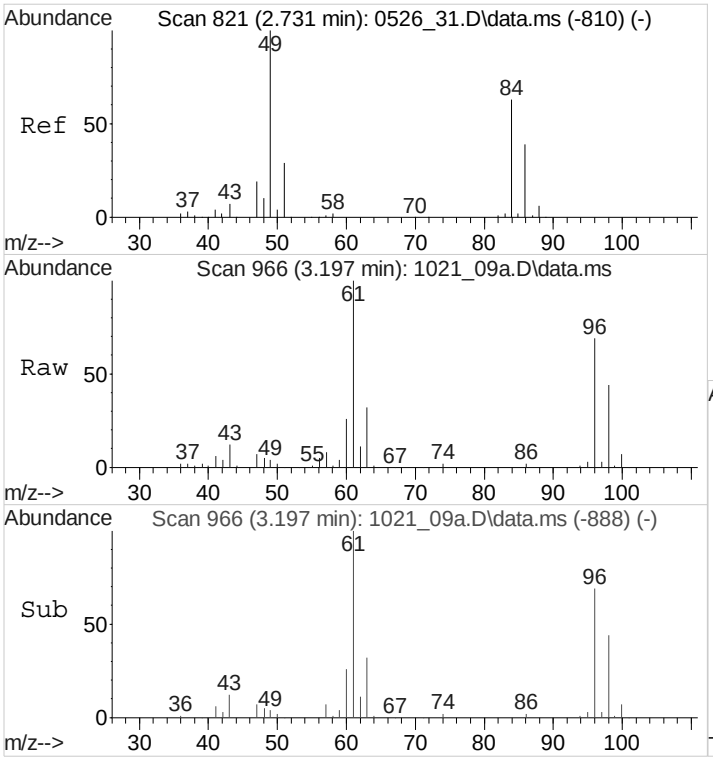


#21
n-Hexane
Concen: 21.2544172 ppb
RT: 3.219 min Scan# 973
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 56 Resp: 166660

Ion	Ratio	Lower	Upper
56	100		
86	32.5	25.0	37.6
43	174.5	135.9	203.9

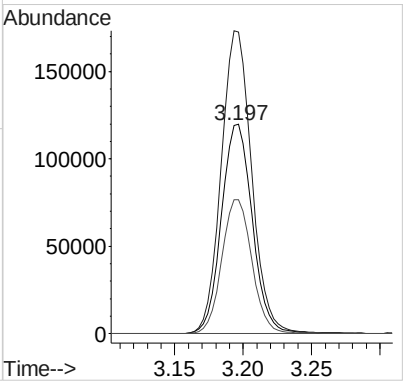


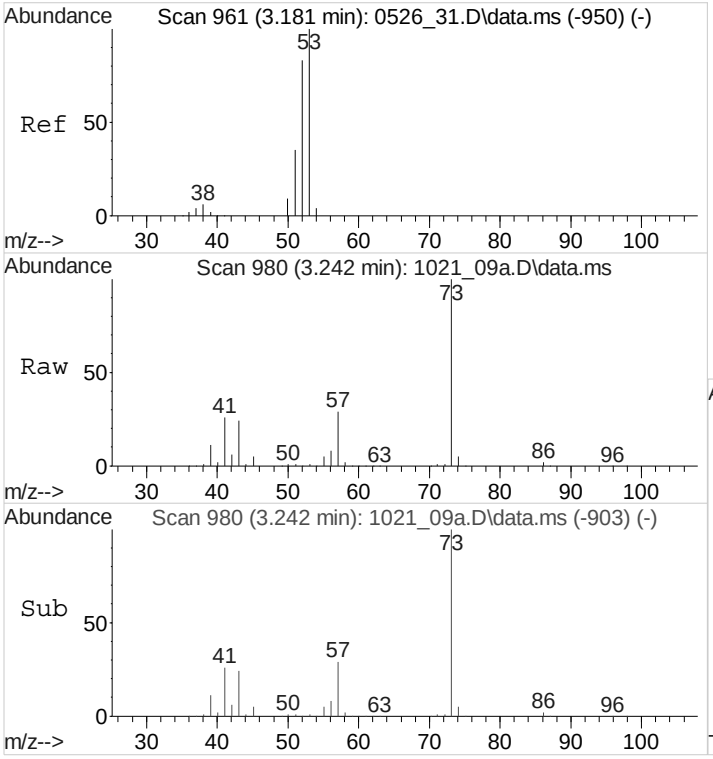


#22
TRANS-1,2-DICHLOROETHENE
Concen: 28.5315682 ppb
RT: 3.197 min Scan# 966
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 96 Resp: 187935

Ion	Ratio	Lower	Upper
96	100		
61	143.0	115.3	172.9
98	62.4	50.4	75.6

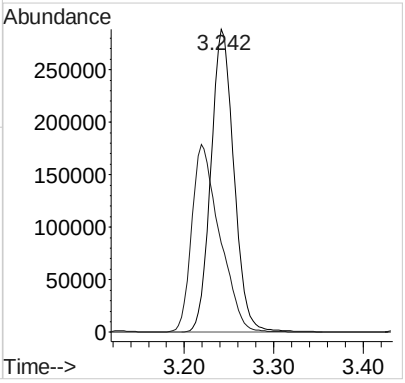


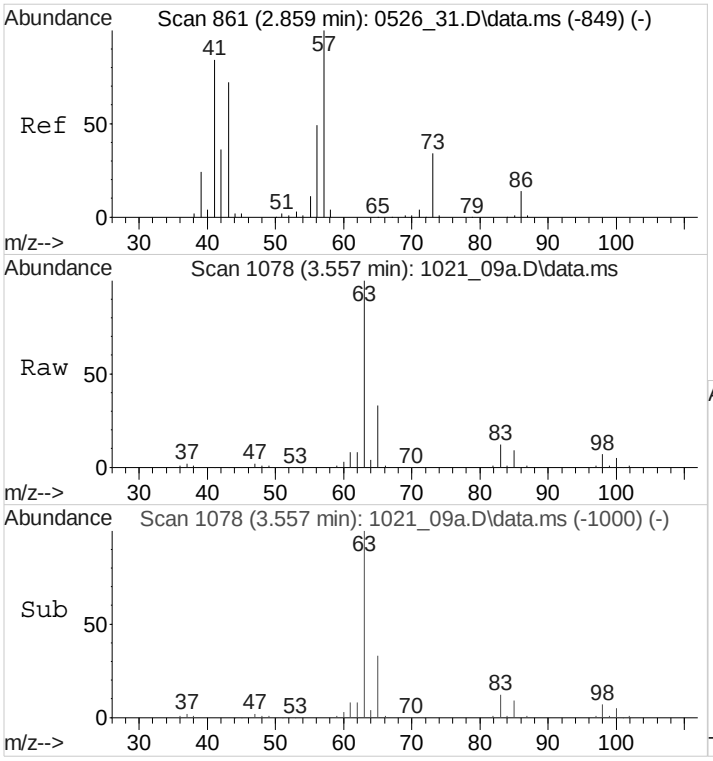


#23
METHYL TERT-BUTYL ETHER
Concen: 28.6403052 ppb
RT: 3.242 min Scan# 980
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 73 Resp: 516354

Ion	Ratio	Lower	Upper
73	100		
57	0.0	0.0	0.0

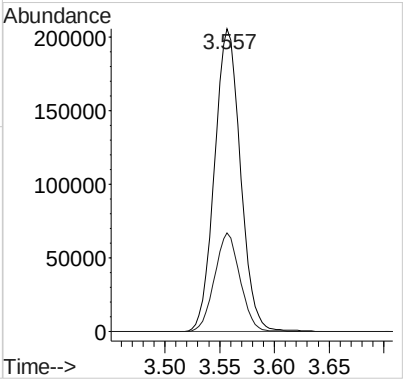


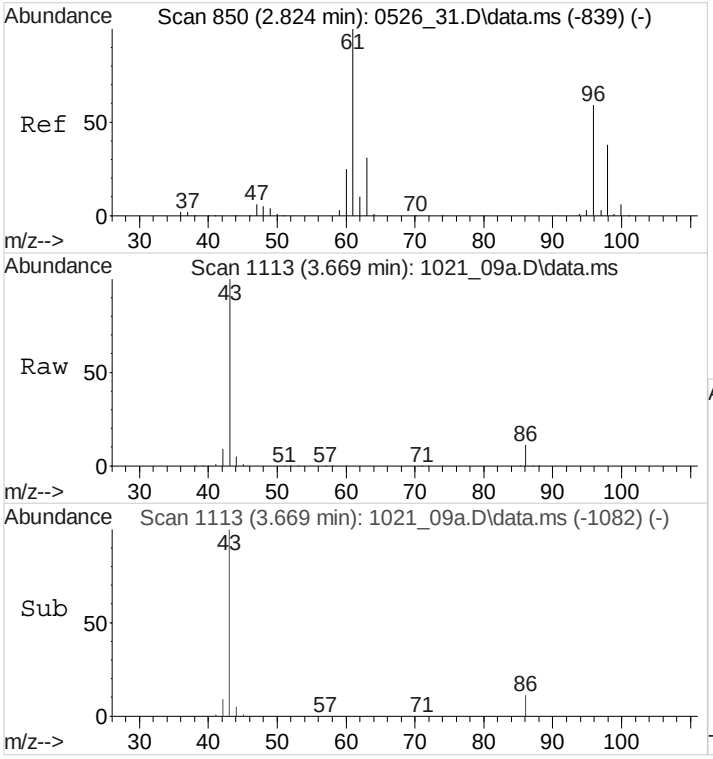


#24
1,1-DICHLOROETHANE
Concen: 27.2360652 ppb
RT: 3.557 min Scan# 1078
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 63 Resp: 339694

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.0	37.4

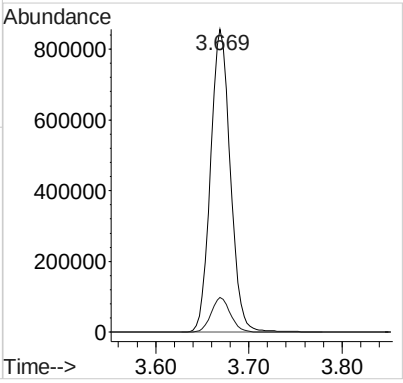


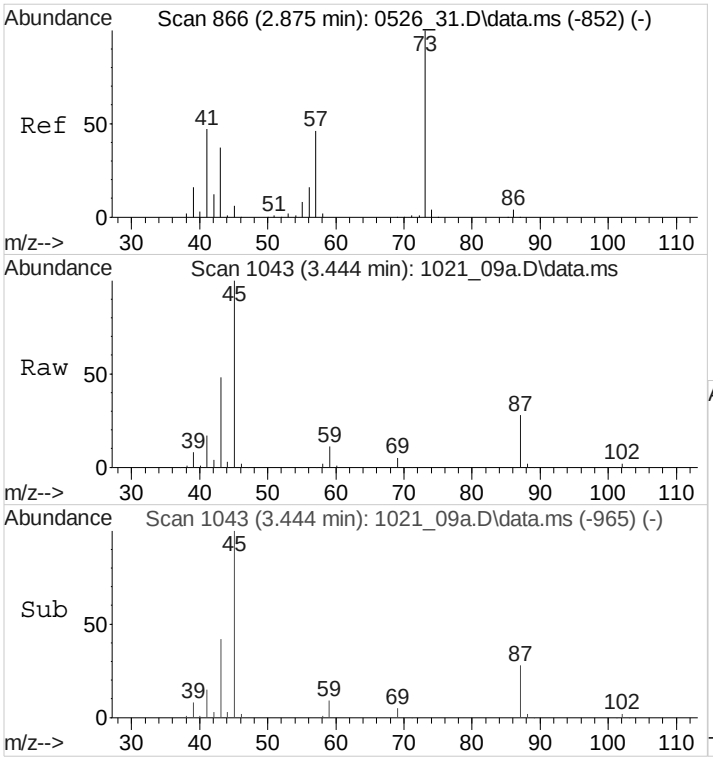


#25
VINYL ACETATE
Concen: 153.6212362 ppb
RT: 3.669 min Scan# 1113
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 43 Resp: 1267839

Ion	Ratio	Lower	Upper
43	100		
86	11.2	8.8	13.2

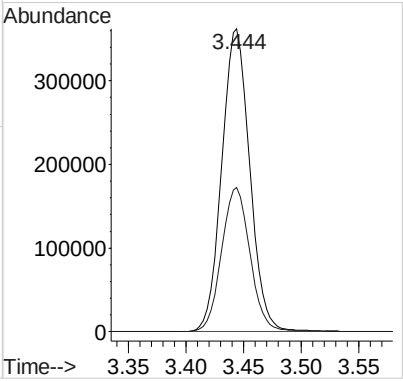


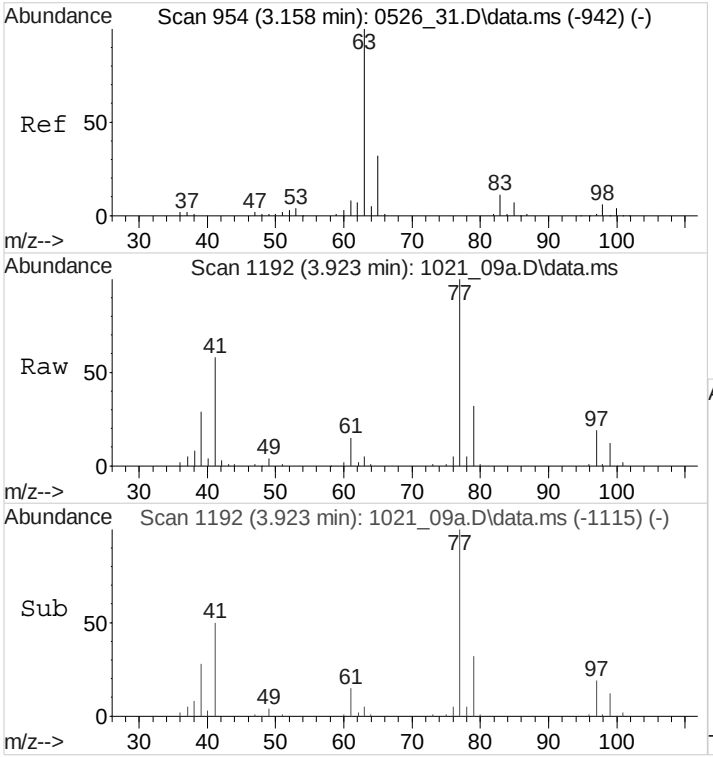


#26
DI-ISOPROPYL ETHER
Concen: 29.6081466 ppb
RT: 3.444 min Scan# 1043
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 45 Resp: 611491

Ion	Ratio	Lower	Upper
45	100		
43	48.5	39.2	58.8

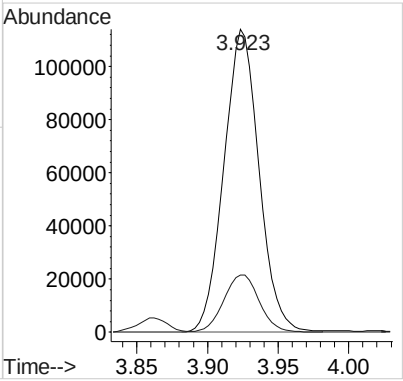


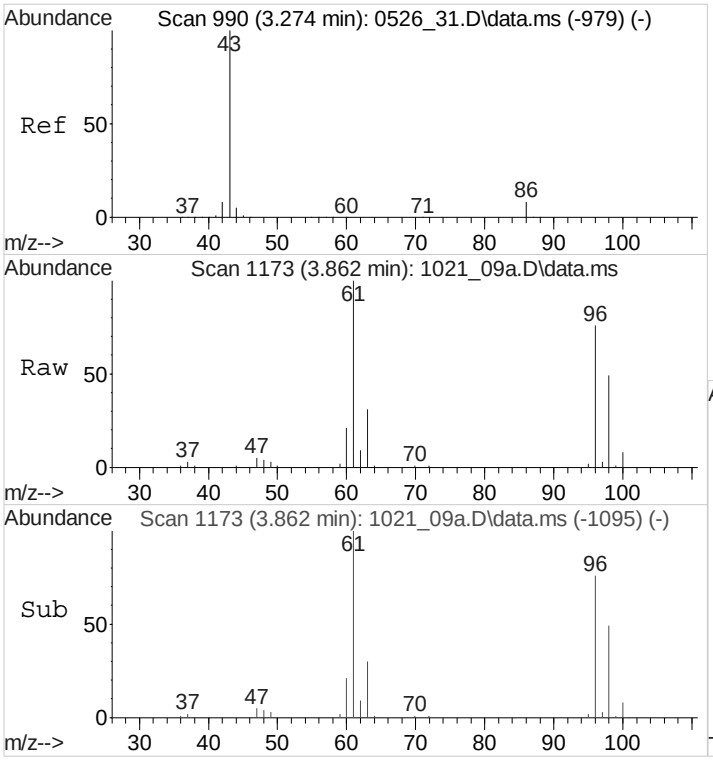


#27
2,2-Dichloropropane
Concen: 25.8971915 ppb
RT: 3.923 min Scan# 1192
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 77 Resp: 197339

Ion	Ratio	Lower	Upper
77	100		
97	19.1	15.1	22.7

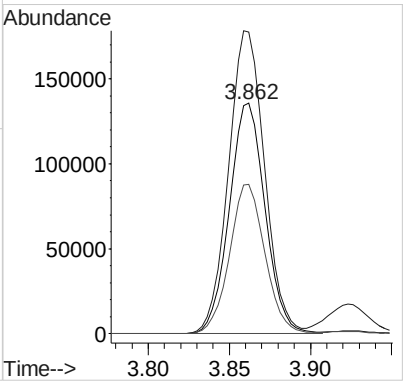


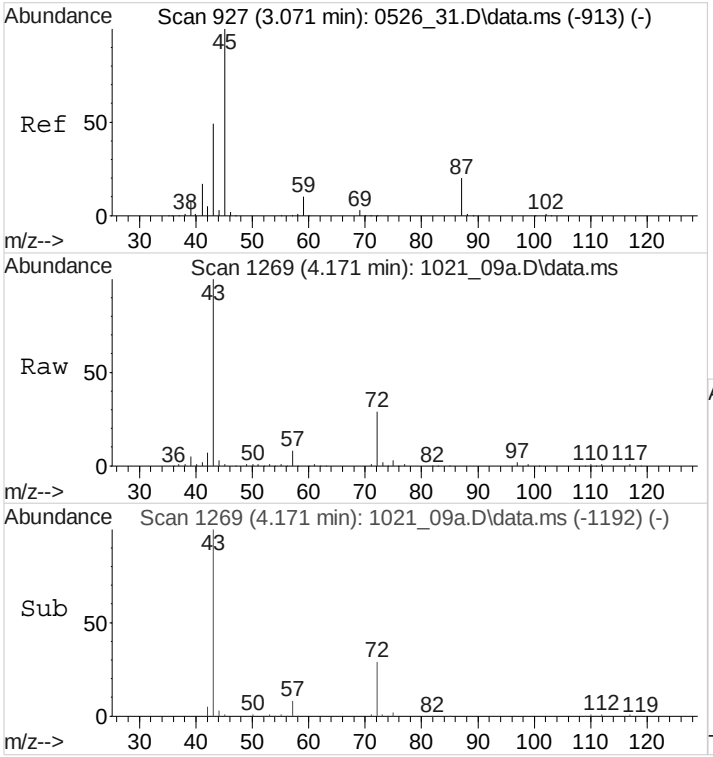


#28
CIS-1,2-DICHLOROETHENE
Concen: 27.9361035 ppb
RT: 3.862 min Scan# 1173
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 96 Resp: 208186

Ion	Ratio	Lower	Upper
96	100		
61	132.2	105.3	157.9
98	64.0	52.2	78.2

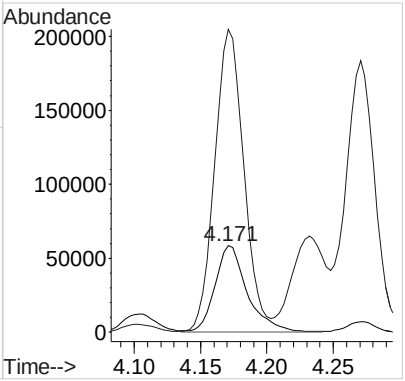


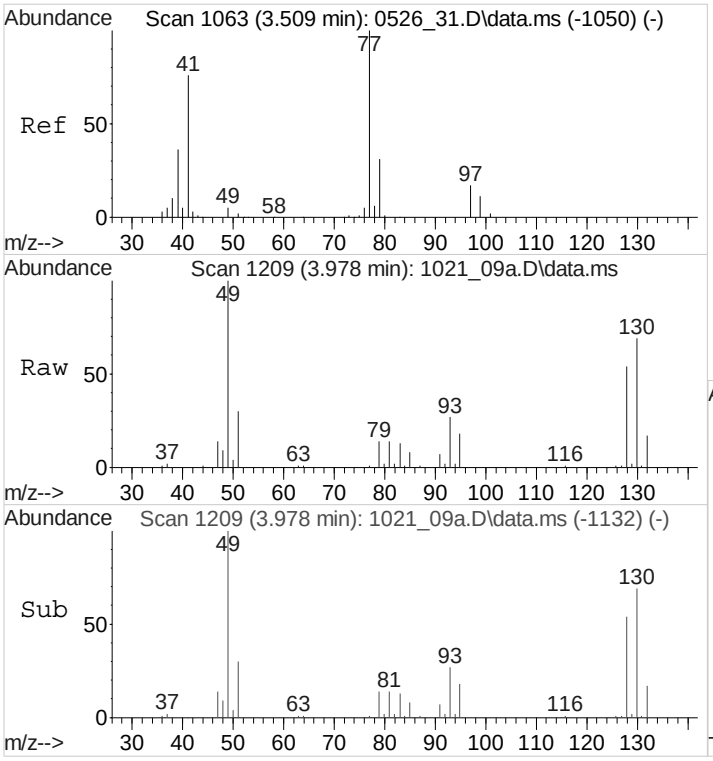


#29
2-BUTANONE (MEK)
Concen: 149.8408058 ppb
RT: 4.171 min Scan# 1269
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 72 Resp: 99881

Ion	Ratio	Lower	Upper
72	100		
43	312.3	252.2	378.4

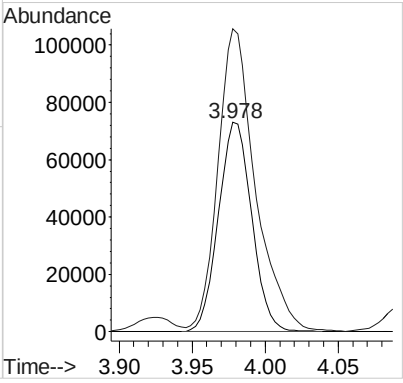


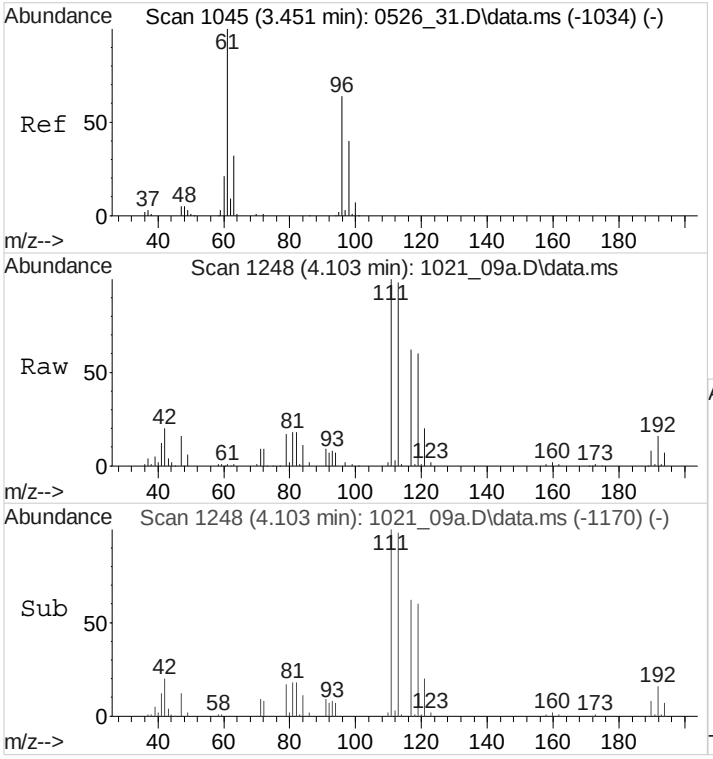


#30
BROMOCHLOROMETHANE
Concen: 28.3982636 ppb
RT: 3.978 min Scan# 1209
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:130 Resp: 115779

Ion	Ratio	Lower	Upper
130	100		
49	163.4	132.3	198.5

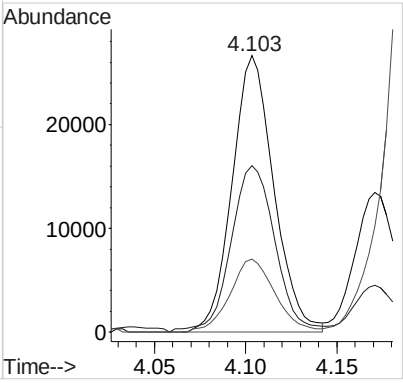


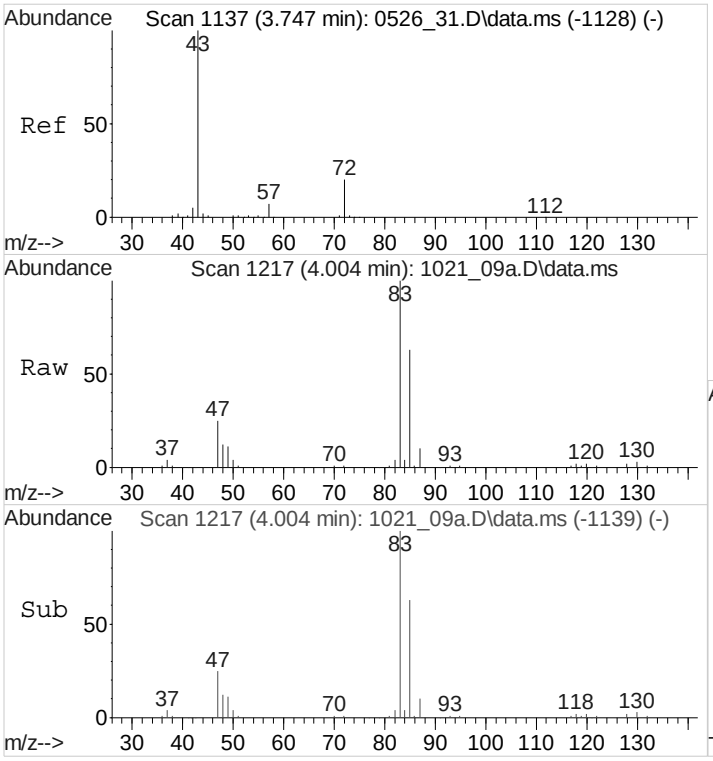


#31
TETRAHYDROFURAN
Concen: 18.2242962 ppb
RT: 4.103 min Scan# 1248
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 42 Resp: 42375

Ion	Ratio	Lower	Upper
42	100		
41	63.7	48.0	72.0
39	28.5	22.0	33.0

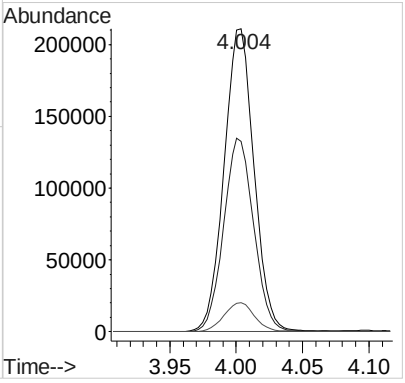


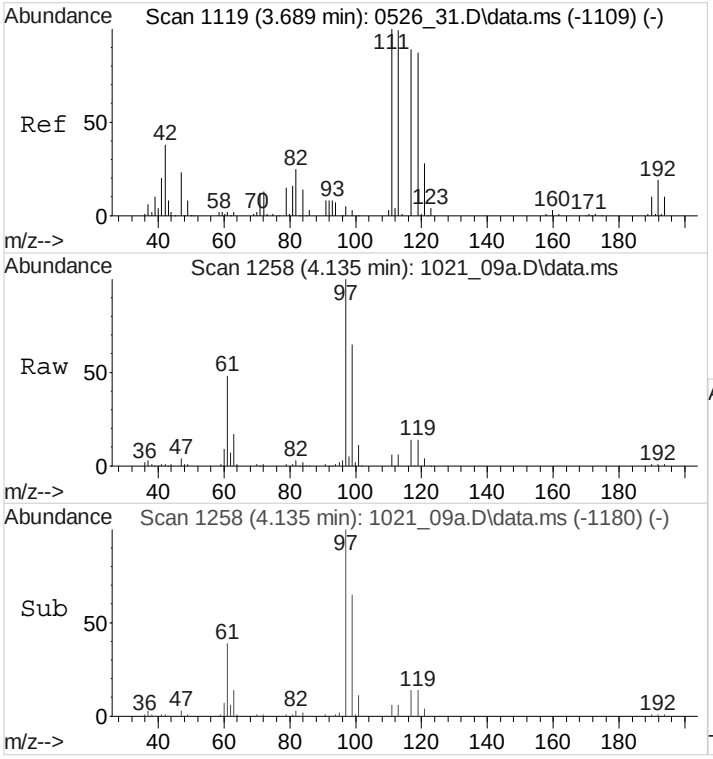


#32
CHLOROFORM
Concen: 27.3522420 ppb
RT: 4.004 min Scan# 1217
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 83 Resp: 331521

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.6	75.8
87	9.8	8.1	12.1

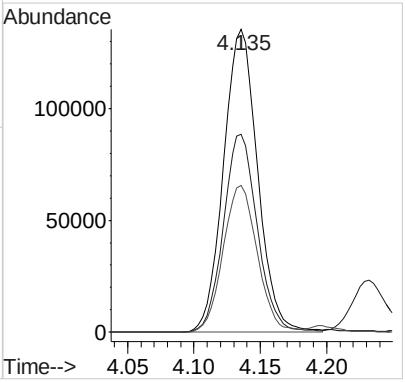


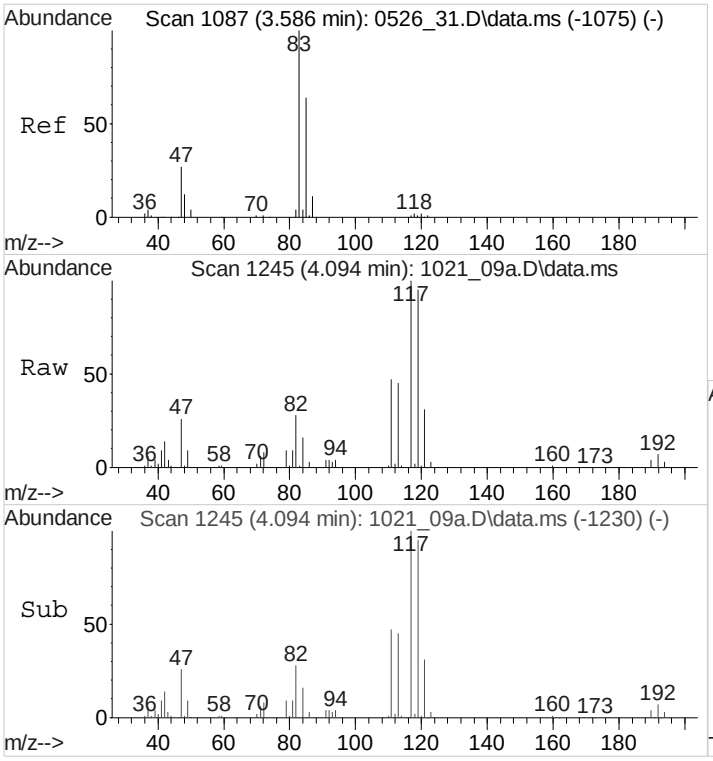


#34
1,1,1-TRICHLOROETHANE
Concen: 27.4871185 ppb
RT: 4.135 min Scan# 1258
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 97 Resp: 242642

Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.2	75.2
61	48.4	38.1	57.1

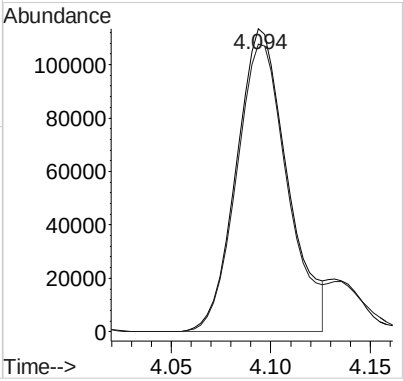


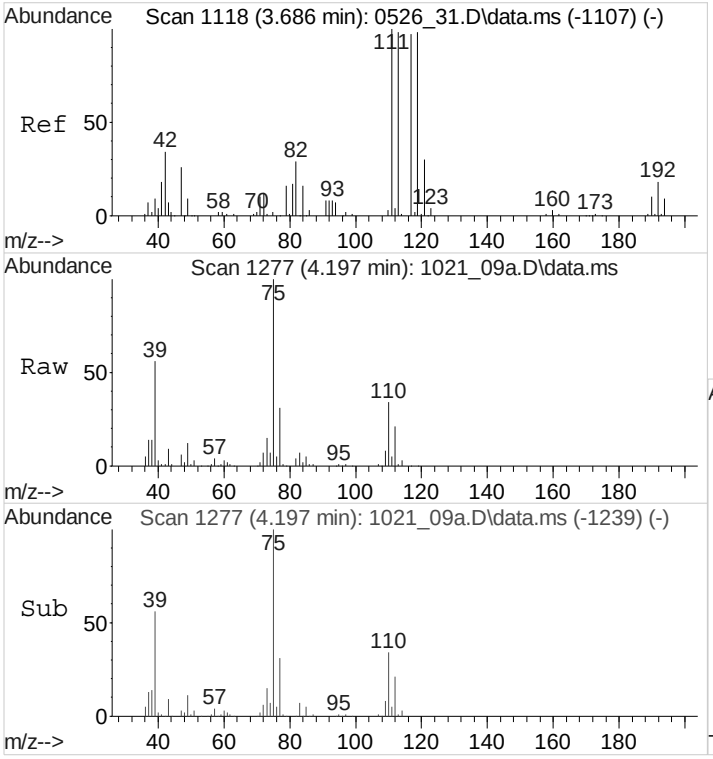


#35
CARBON TETRACHLORIDE
Concen: 27.7342357 ppb
RT: 4.094 min Scan# 1245
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:117 Resp: 201806

Ion	Ratio	Lower	Upper
117	100		
119	95.1	76.9	115.3

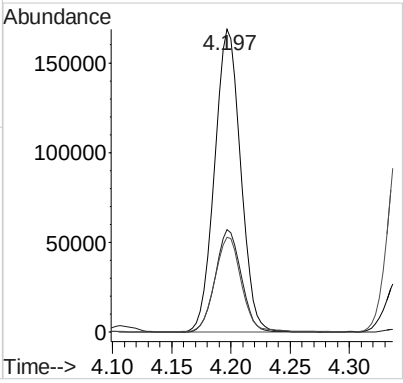


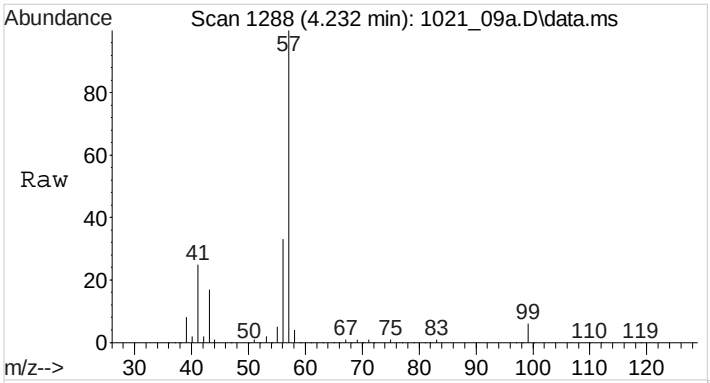


#36
1,1-Dichloropropene
Concen: 28.9155757 ppb
RT: 4.197 min Scan# 1277
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 75 Resp: 257811

Ion	Ratio	Lower	Upper
75	100		
110	33.5	27.0	40.6
77	32.4	25.4	38.0

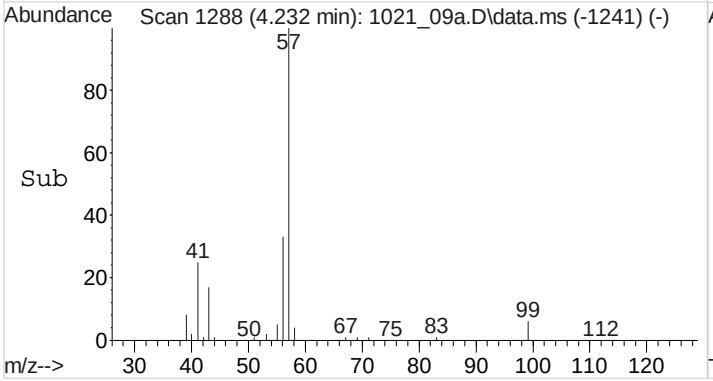


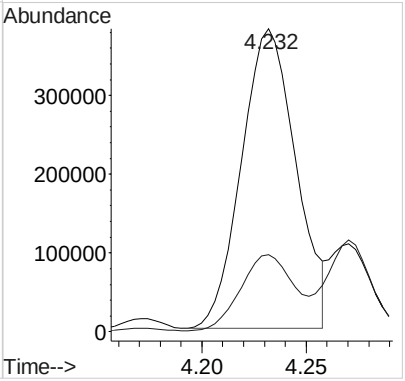


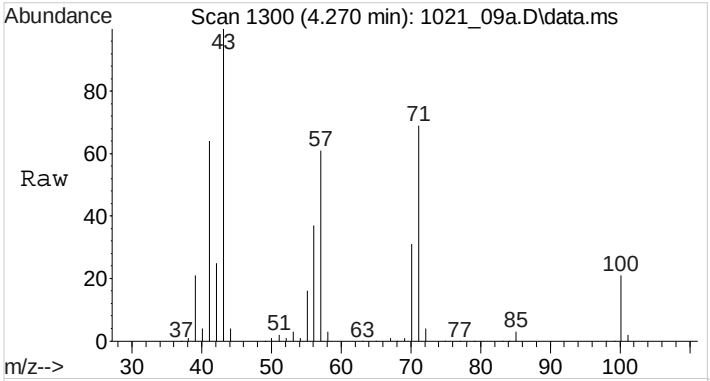
#37
2,2,4-TRIMETHYLPENTANE
Concen: 26.2789497 ppb
RT: 4.232 min Scan# 1288
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 57 Resp: 690636

Ion	Ratio	Lower	Upper
57	100		
41	24.9	18.8	28.2



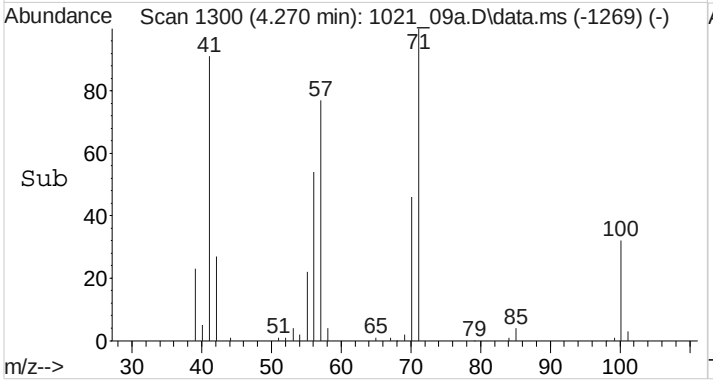


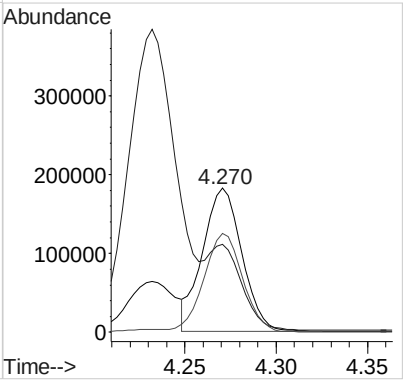


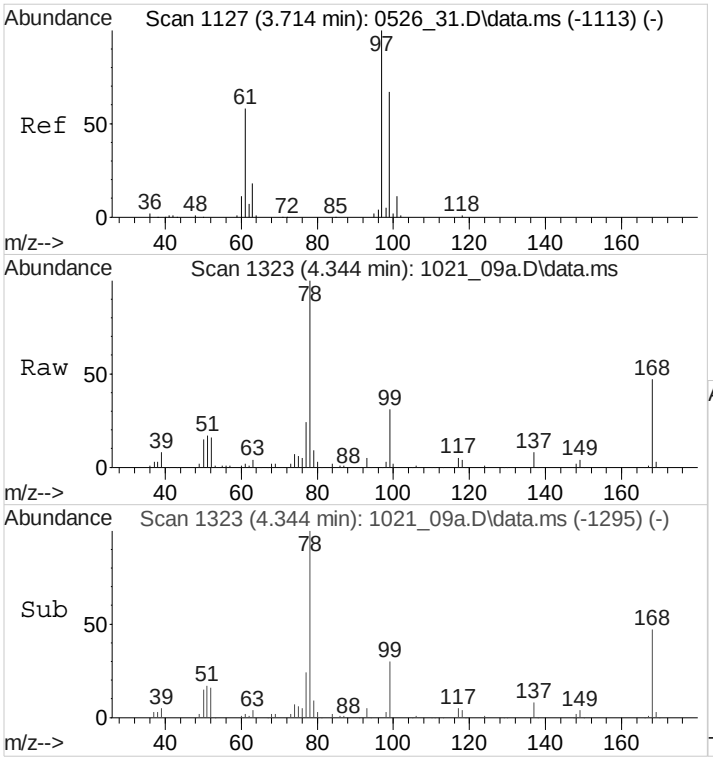
#38
HEPTANE
Concen: 29.2509715 ppb
RT: 4.270 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 43 Resp: 272603

Ion	Ratio	Lower	Upper
43	100		
57	0.0	0.0	0.0
71	68.8	55.4	83.2



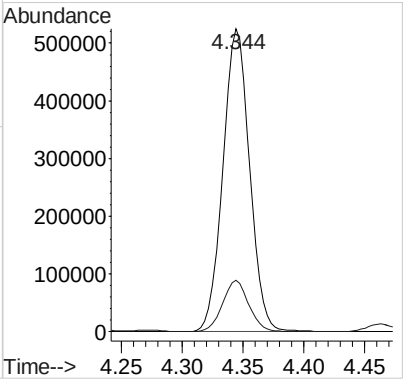


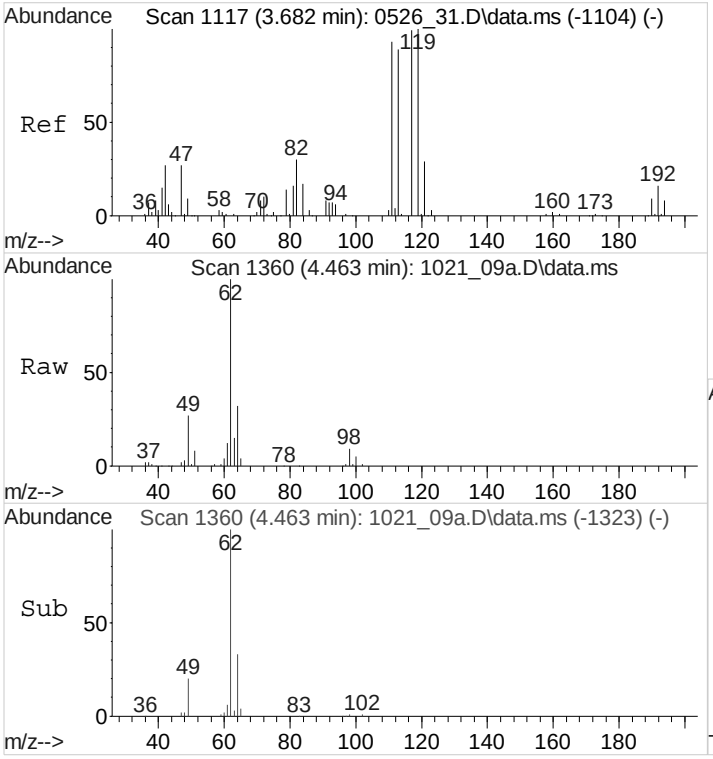


#39
BENZENE
Concen: 26.7466238 ppb
RT: 4.344 min Scan# 1323
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 78 Resp: 802392

Ion	Ratio	Lower	Upper
78	100		
51	16.7	13.3	19.9

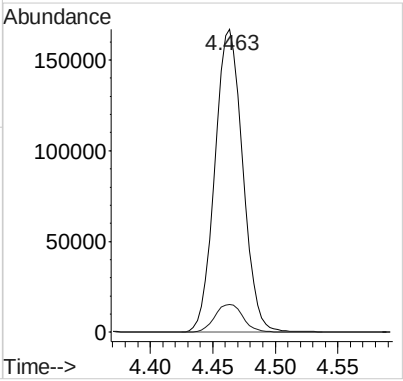


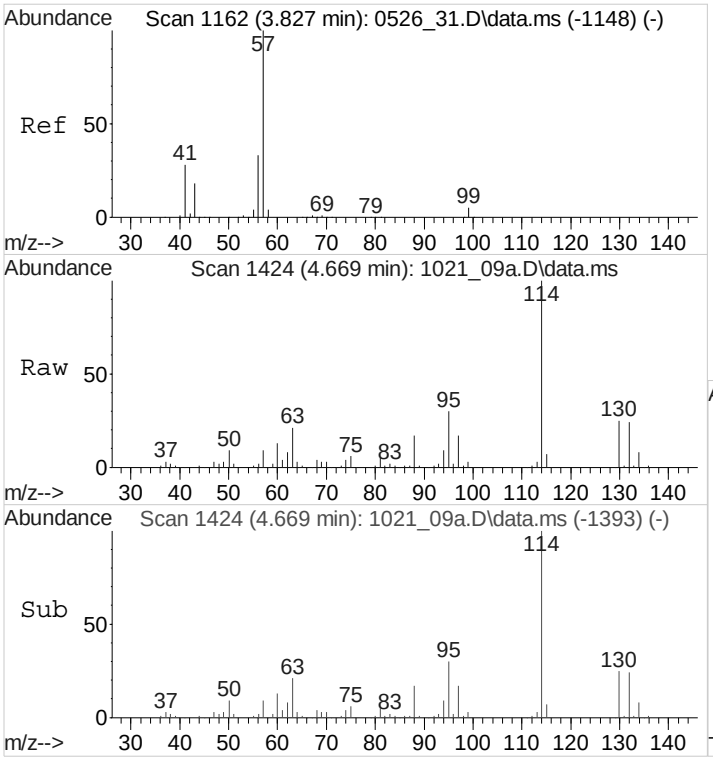


#40
1,2-DICHLOROETHANE
Concen: 27.4725476 ppb
RT: 4.463 min Scan# 1360
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 62 Resp: 258402

Ion	Ratio	Lower	Upper
62	100		
98	9.3	7.8	11.8

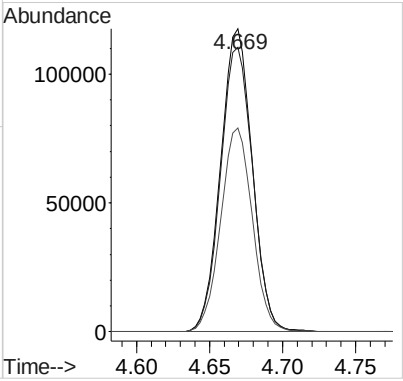


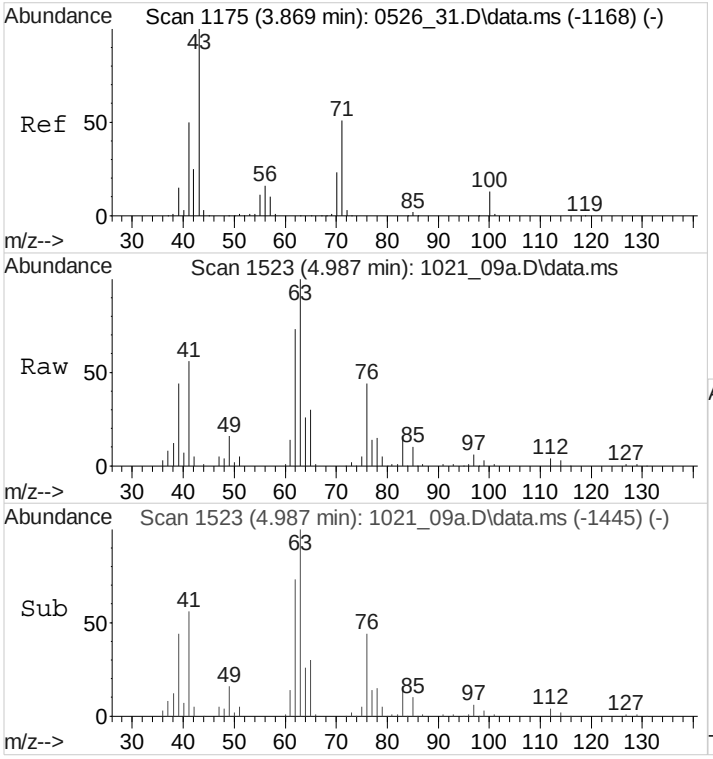


#42
TRICHLOROETHENE
Concen: 22.1911320 ppb
RT: 4.669 min Scan# 1424
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:130 Resp: 177547

Ion	Ratio	Lower	Upper
130	100		
132	95.4	75.9	113.9
97	67.2	52.4	78.6

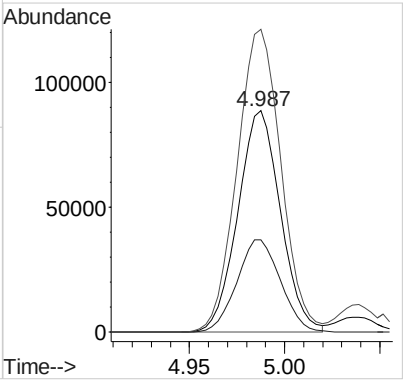


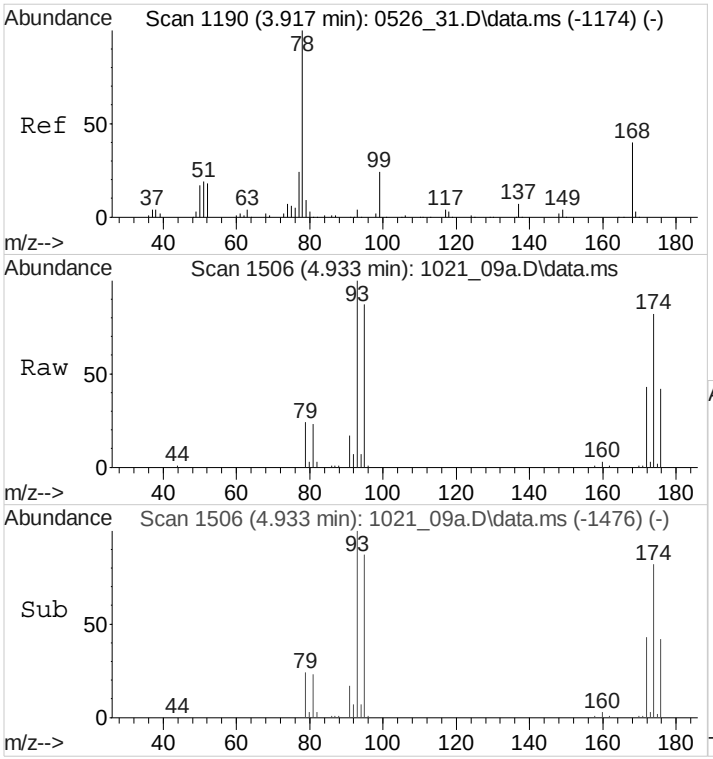


#43
1,2-DICHLOROPROPANE
Concen: 27.3239943 ppb
RT: 4.987 min Scan# 1523
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 62 Resp: 138225

Ion	Ratio	Lower	Upper
62	100		
65	42.6	34.7	52.1
63	140.7	112.6	168.8

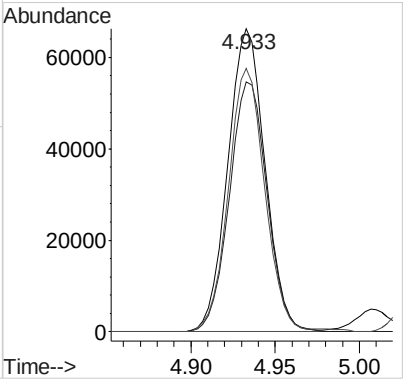


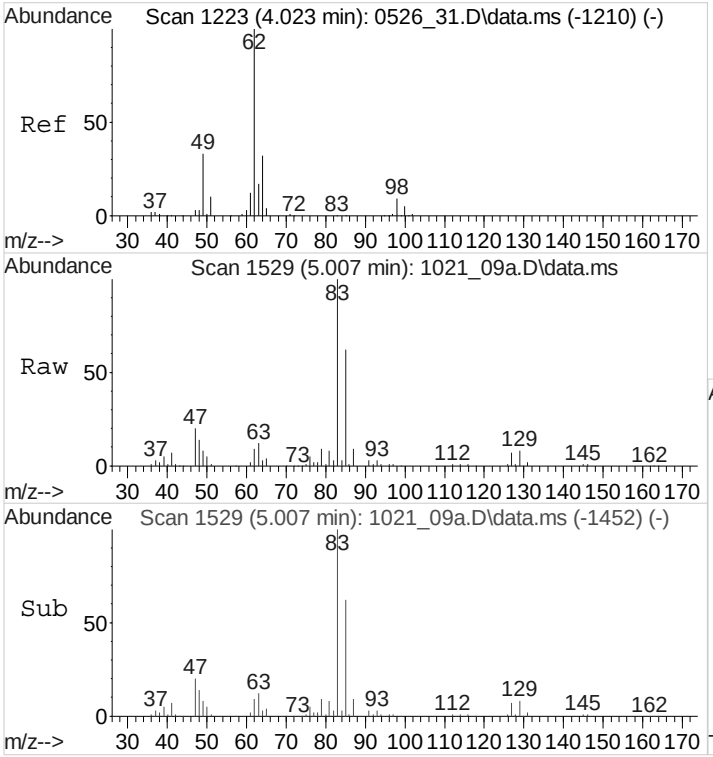


#44
DIBROMOMETHANE
Concen: 26.3744737 ppb
RT: 4.933 min Scan# 1506
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 93 Resp: 102030

Ion	Ratio	Lower	Upper
93	100		
174	83.3	69.4	104.0
95	84.8	65.8	98.6

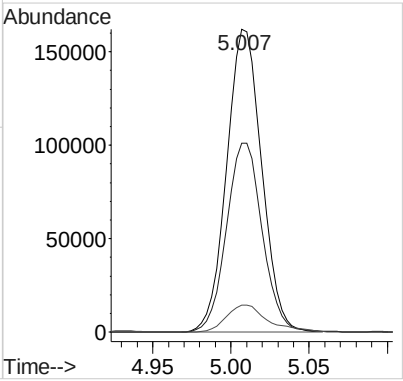


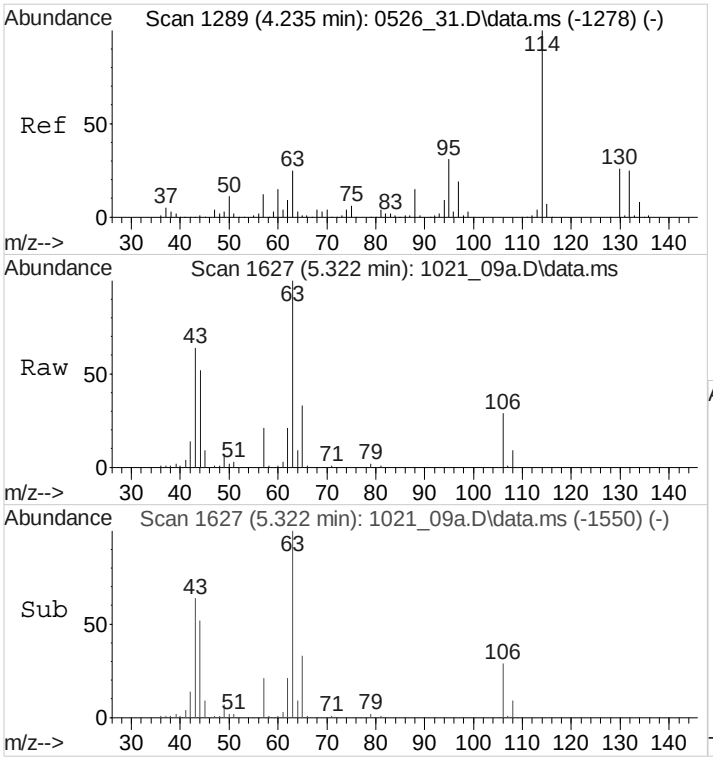


#45
BROMODICHLOROMETHANE
Concen: 26.0911553 ppb
RT: 5.007 min Scan# 1529
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 83 Resp: 252691

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.3	76.9
87	10.6	8.7	13.1

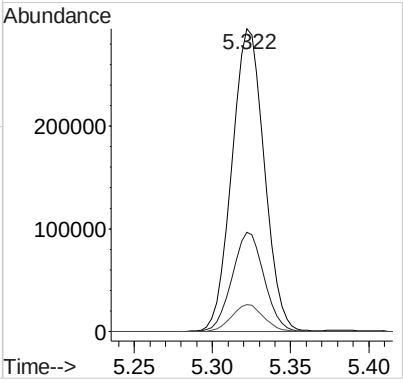


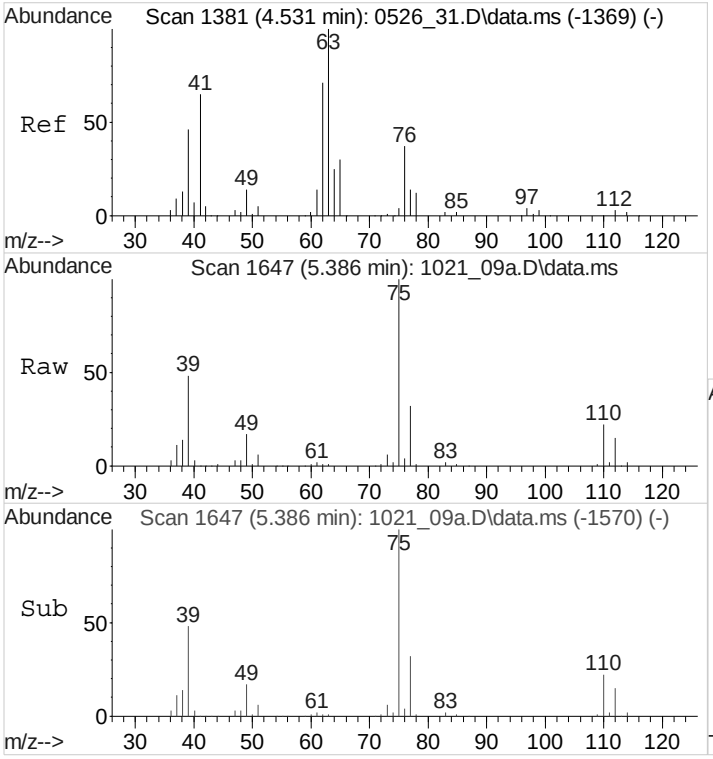


#47
2-CHLOROETHYL VINYL ETHER
Concen: 172.1941858 ppb
RT: 5.322 min Scan# 1627
Delta R.T. -0.002 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 63 Resp: 425620

Ion	Ratio	Lower	Upper
63	100		
65	32.4	25.9	38.9
64	8.9	7.0	10.4

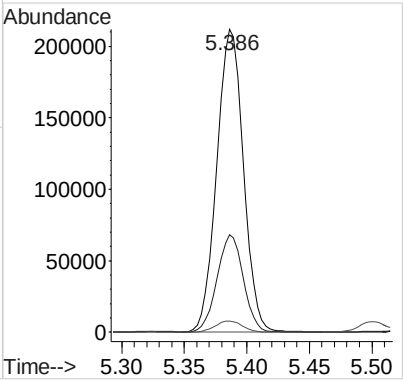


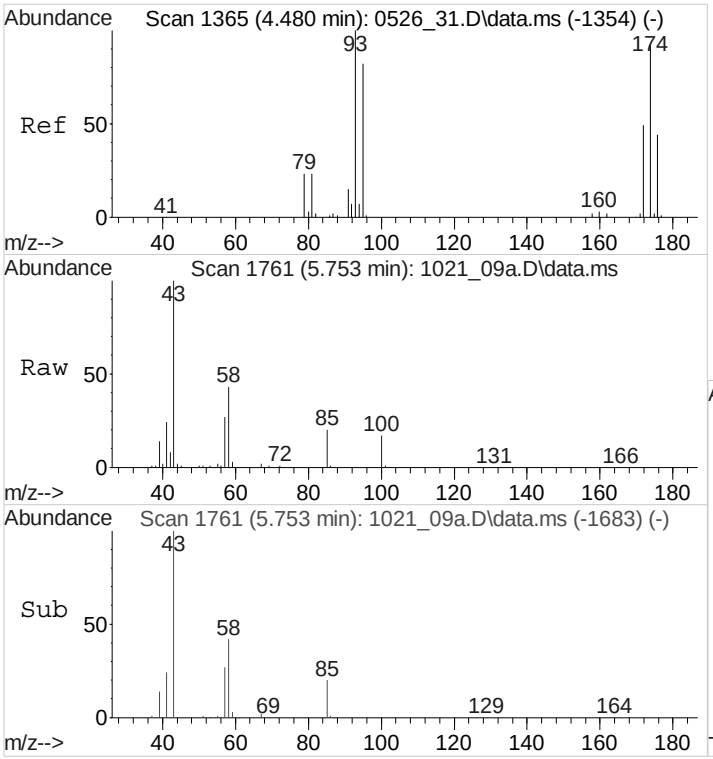


#48
CIS-1,3-DICHLOROPROPENE
Concen: 29.5032305 ppb
RT: 5.386 min Scan# 1647
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 75 Resp: 313582

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4
76	3.7	2.9	4.3

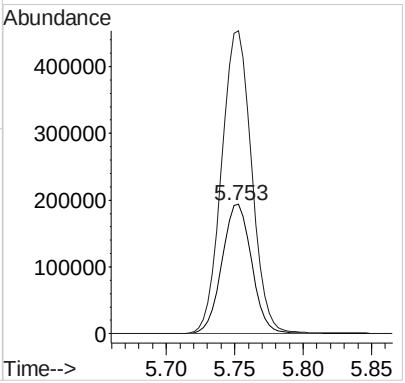


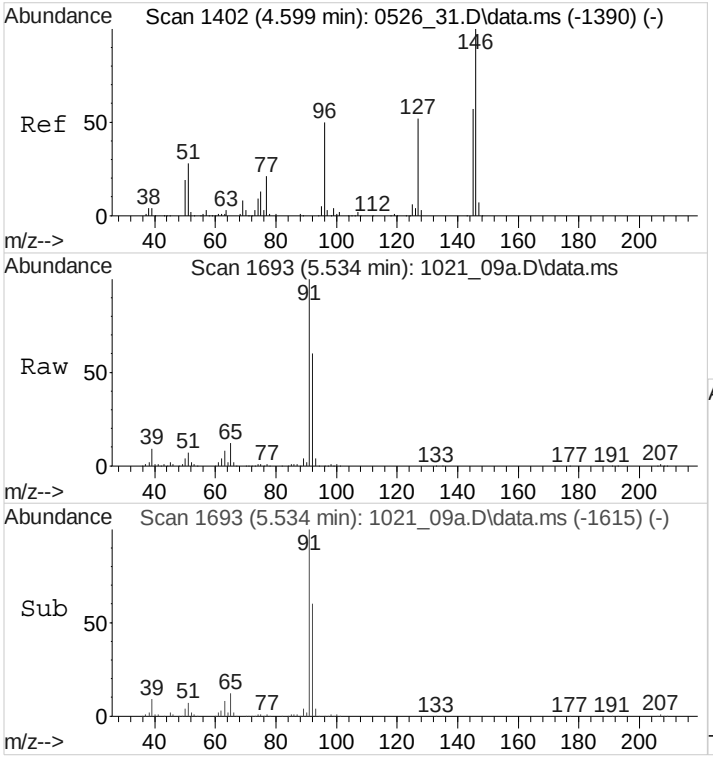


#49
4-METHYL-2-PENTANONE (MIBK)
Concen: 157.2897609 ppb
RT: 5.753 min Scan# 1761
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 58 Resp: 292666

Ion	Ratio	Lower	Upper
58	100		
43	237.0	189.8	284.8

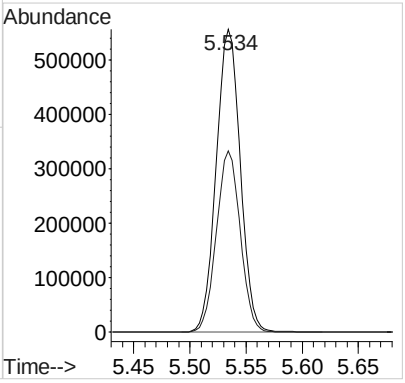


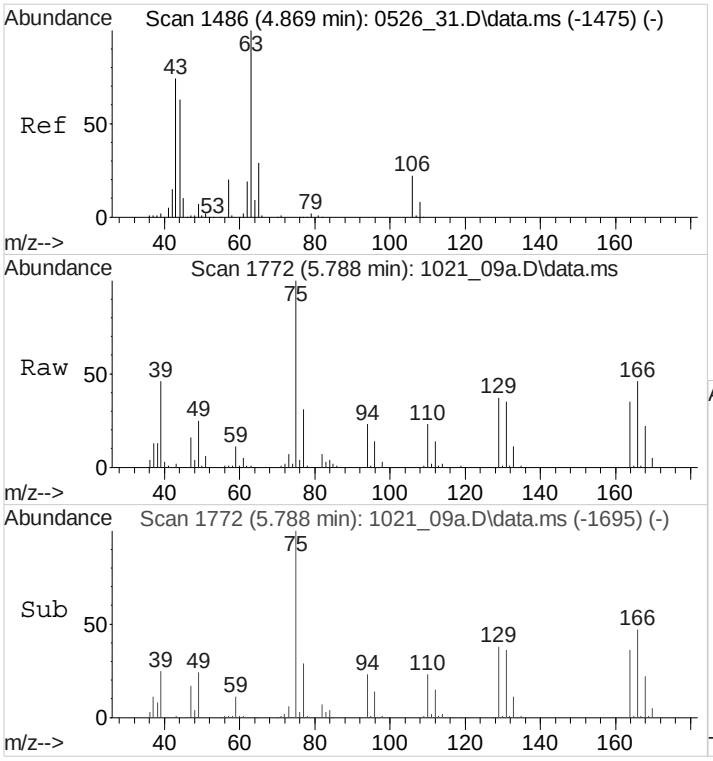


#51
TOLUENE
Concen: 25.7442979 ppb
RT: 5.534 min Scan# 1693
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 91 Resp: 832431

Ion	Ratio	Lower	Upper
91	100		
92	59.3	47.5	71.3

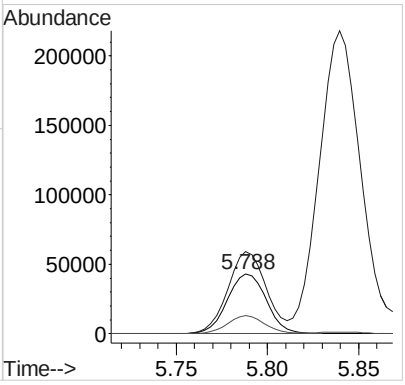


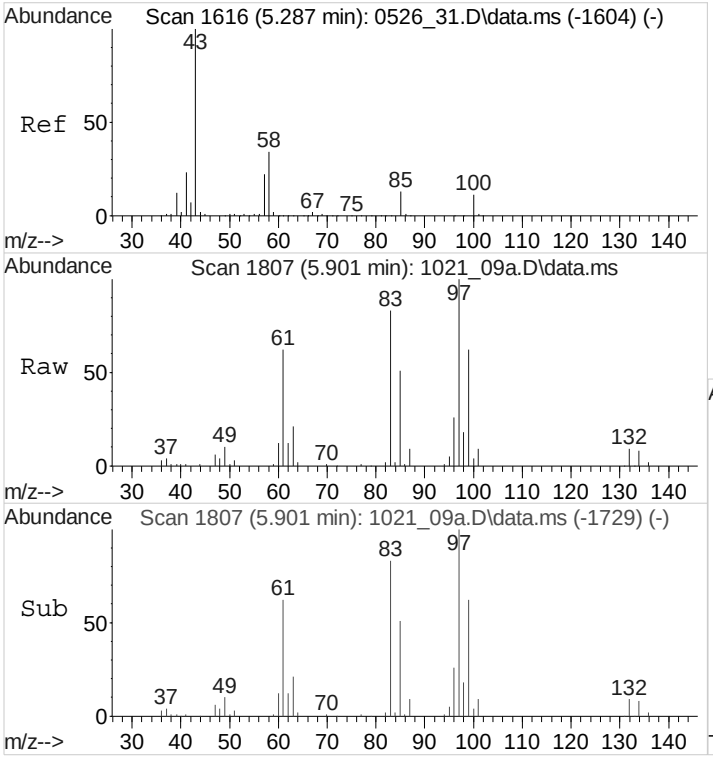


#52
TRANS-1,3-DICHLOROPROPENE
Concen: 29.3047342 ppb
RT: 5.788 min Scan# 1772
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:110 Resp: 64016

Ion	Ratio	Lower	Upper
110	100		
77	135.7	109.8	164.6
73	29.3	22.2	33.2

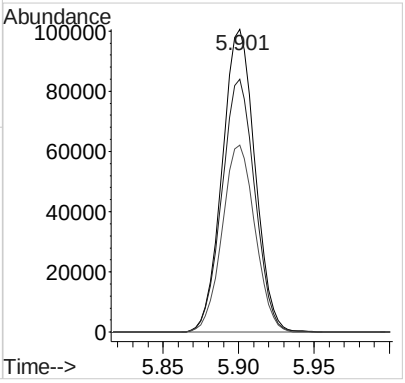


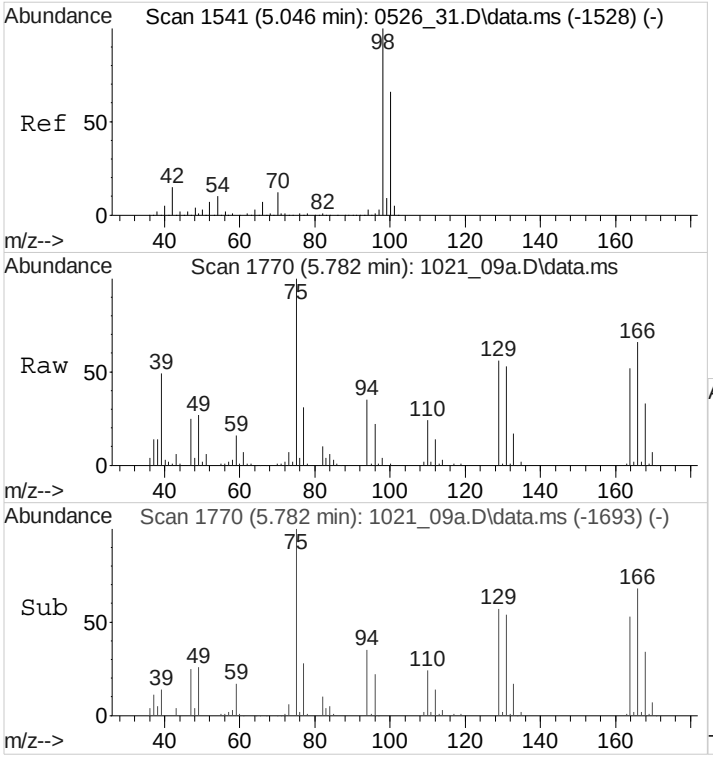


#54
1,1,2-TRICHLOROETHANE
Concen: 26.4906074 ppb
RT: 5.901 min Scan# 1807
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 97 Resp: 151836

Ion	Ratio	Lower	Upper
97	100		
83	84.2	68.2	102.4
99	62.0	48.5	72.7

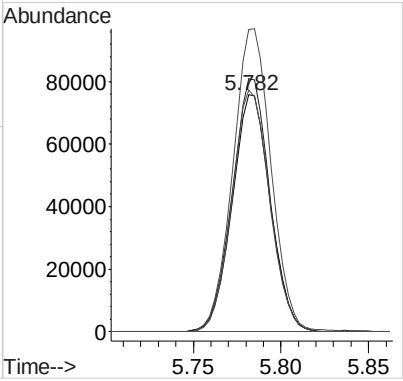


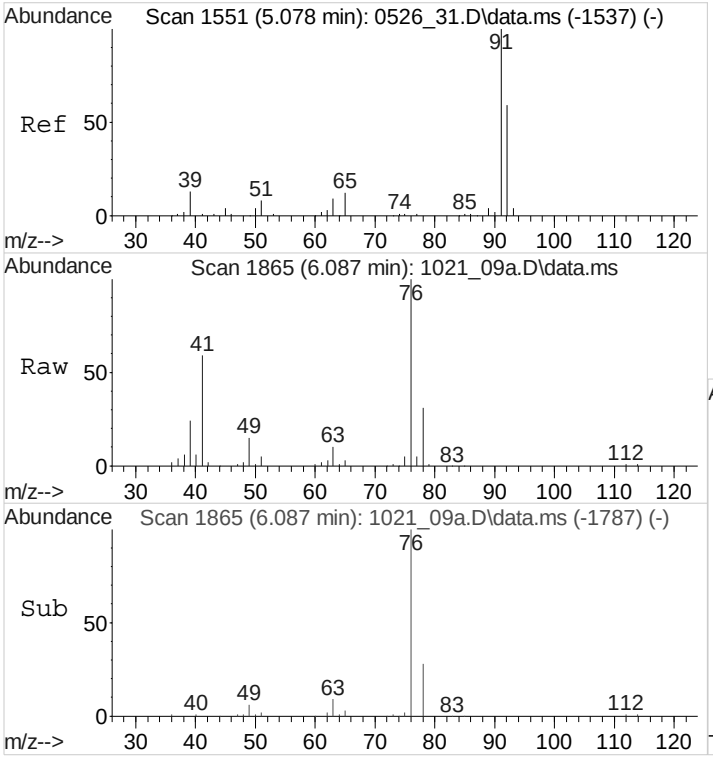


#55
TETRACHLOROETHENE
Concen: 24.7641449 ppb
RT: 5.782 min Scan# 1770
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:164 Resp: 114665

Ion	Ratio	Lower	Upper
164	100		
129	105.6	82.5	123.7
131	100.5	80.1	120.1
166	128.4	100.8	151.2

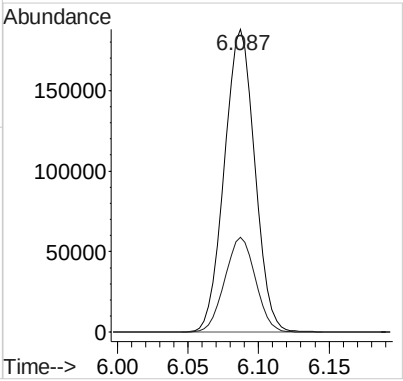


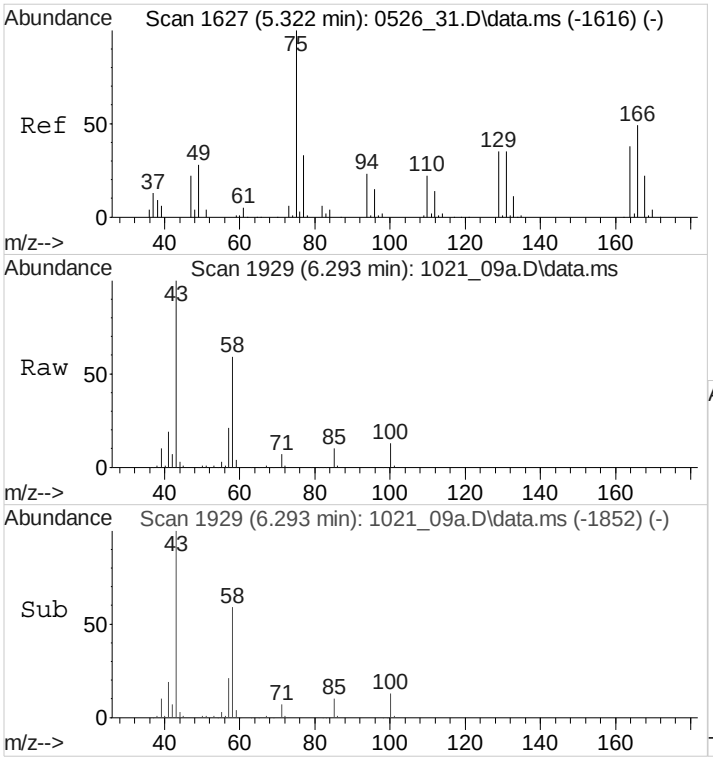


#56
1,3-Dichloropropane
Concen: 25.8156345 ppb
RT: 6.087 min Scan# 1865
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 76 Resp: 281543

Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.9	38.9

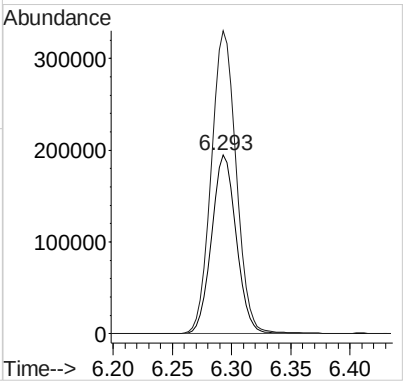


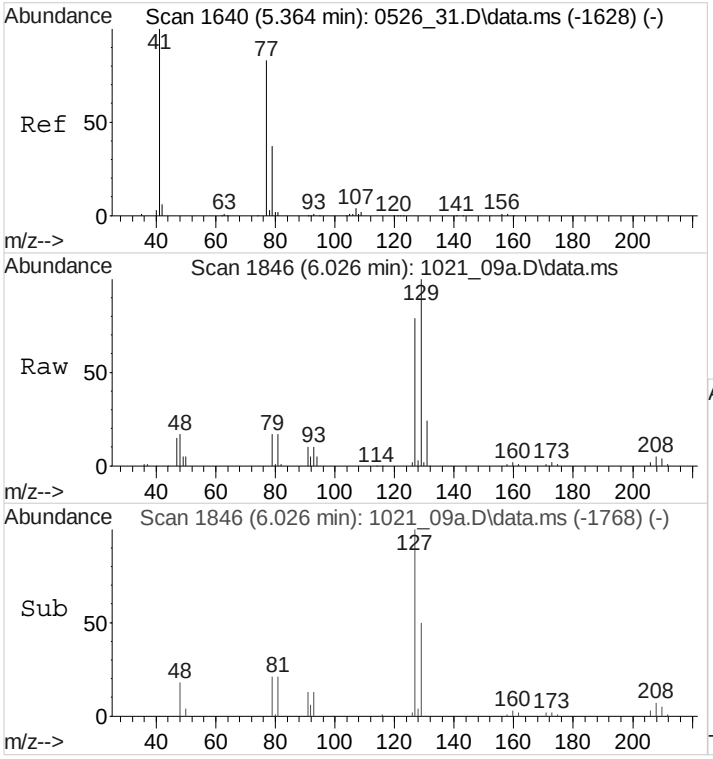


#57
2-HEXANONE
Concen: 168.1506259 ppb
RT: 6.293 min Scan# 1929
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 58 Resp: 280556

Ion	Ratio	Lower	Upper
58	100		
43	171.7	137.8	206.6

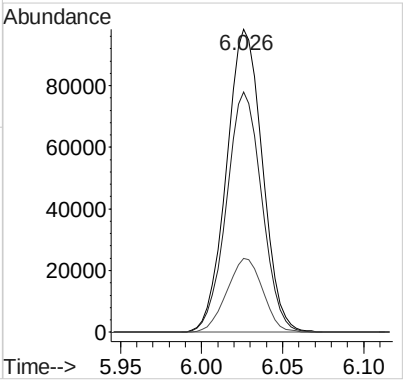


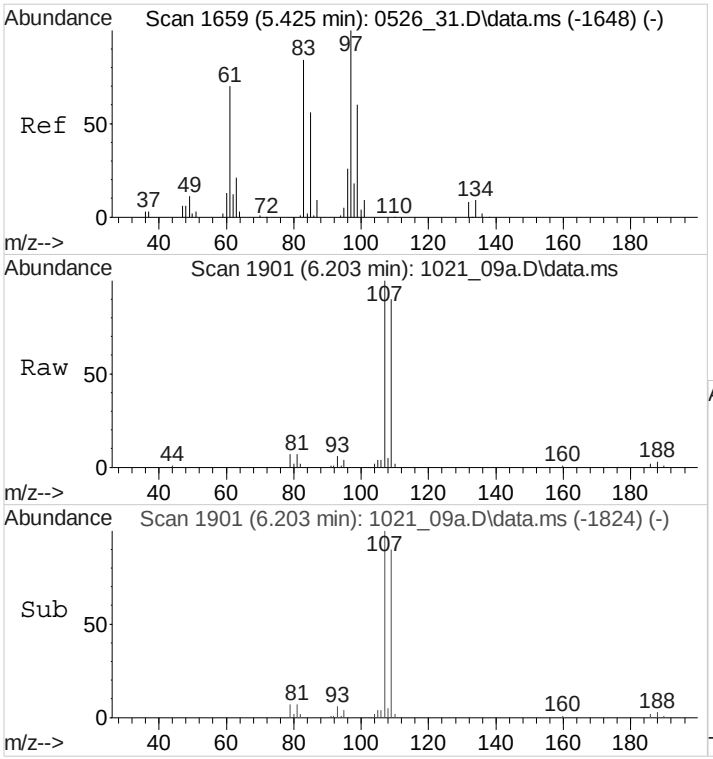


#58
CHLORODIBROMOMETHANE
Concen: 28.8312535 ppb
RT: 6.026 min Scan# 1846
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:129 Resp: 151386

Ion	Ratio	Lower	Upper
129	100		
127	78.0	63.0	94.4
131	24.3	18.8	28.2

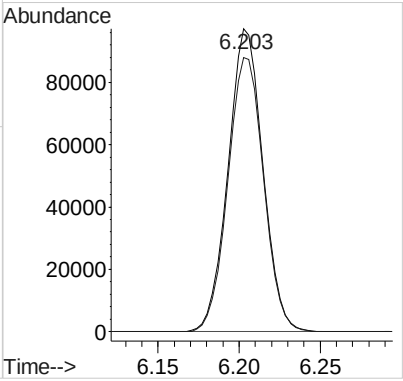


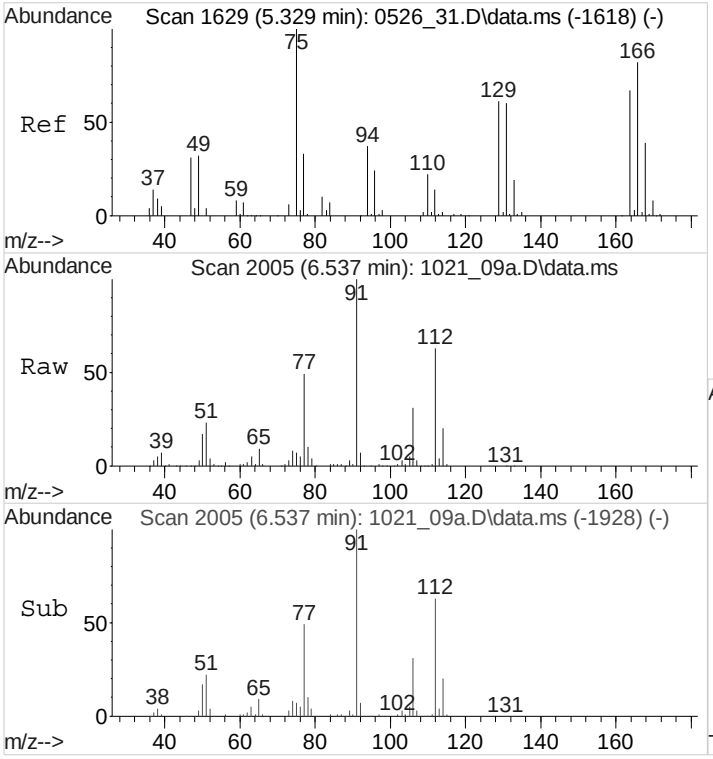


#59
1,2-DIBROMOETHANE
Concen: 27.5658562 ppb
RT: 6.203 min Scan# 1901
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:107 Resp: 145222

Ion	Ratio	Lower	Upper
107	100		
109	92.7	76.2	114.2

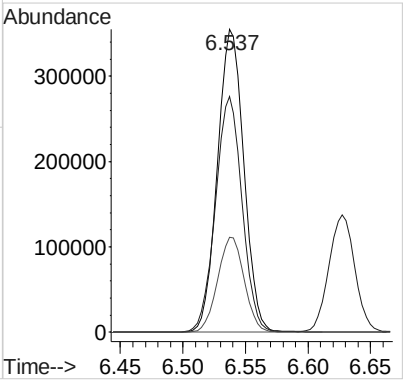


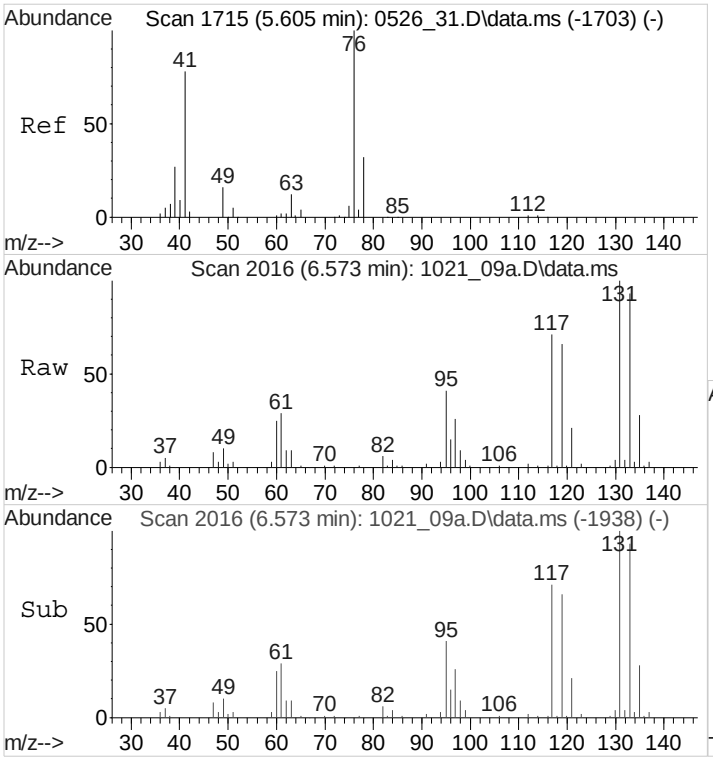


#60
CHLOROBENZENE
Concen: 26.0480000 ppb
RT: 6.537 min Scan# 2005
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:112 Resp: 521208

Ion	Ratio	Lower	Upper
112	100		
77	78.4	61.6	92.4
114	31.6	24.9	37.3

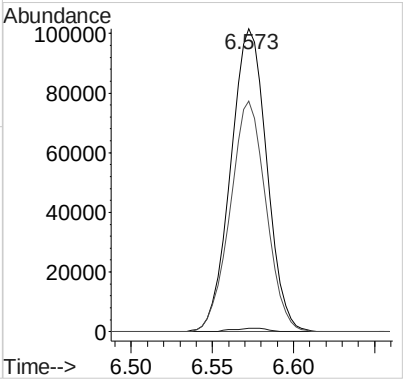


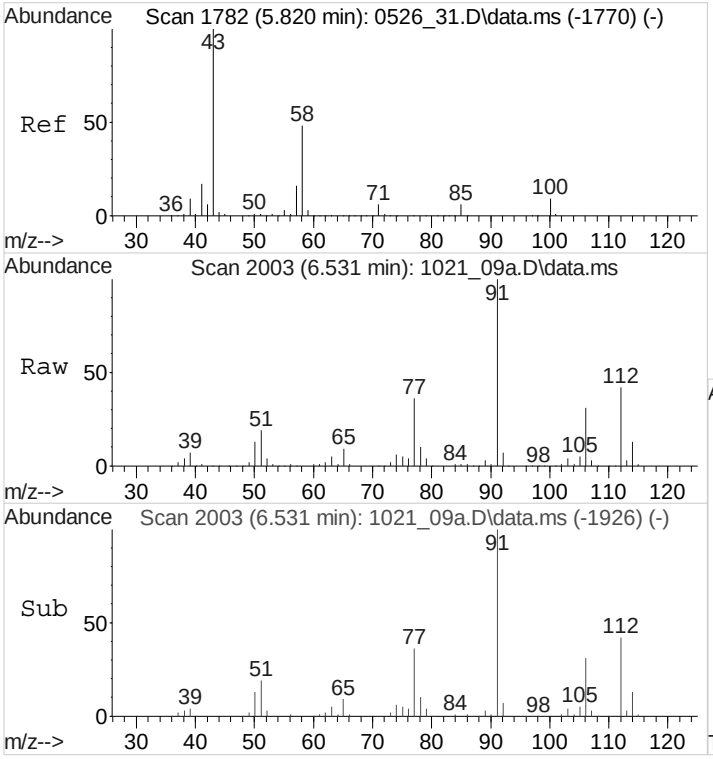


#61
1,1,1,2-TETRACHLOROETHANE
Concen: 26.5740399 ppb
RT: 6.573 min Scan# 2016
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:133 Resp: 156863

Ion	Ratio	Lower	Upper
133	100		
118	1.1	0.9	1.3
117	75.5	60.4	90.6

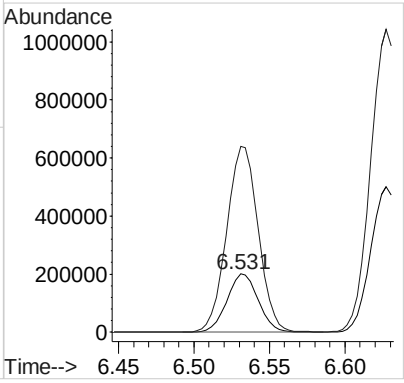


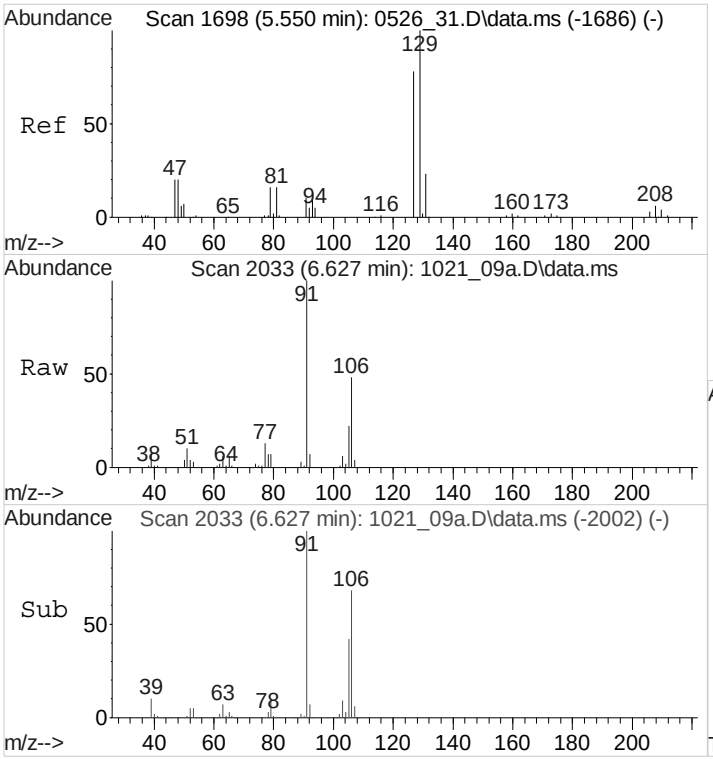


#62
ETHYLBENZENE
Concen: 27.6583109 ppb
RT: 6.531 min Scan# 2003
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:106 Resp: 288645

Ion	Ratio	Lower	Upper
106	100		
91	322.6	262.6	393.8

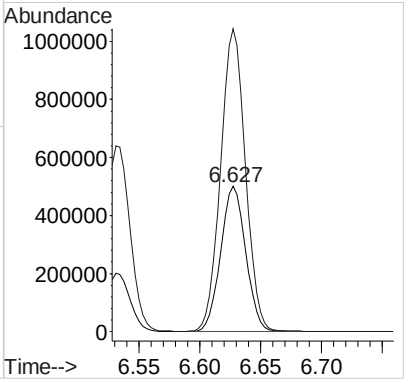


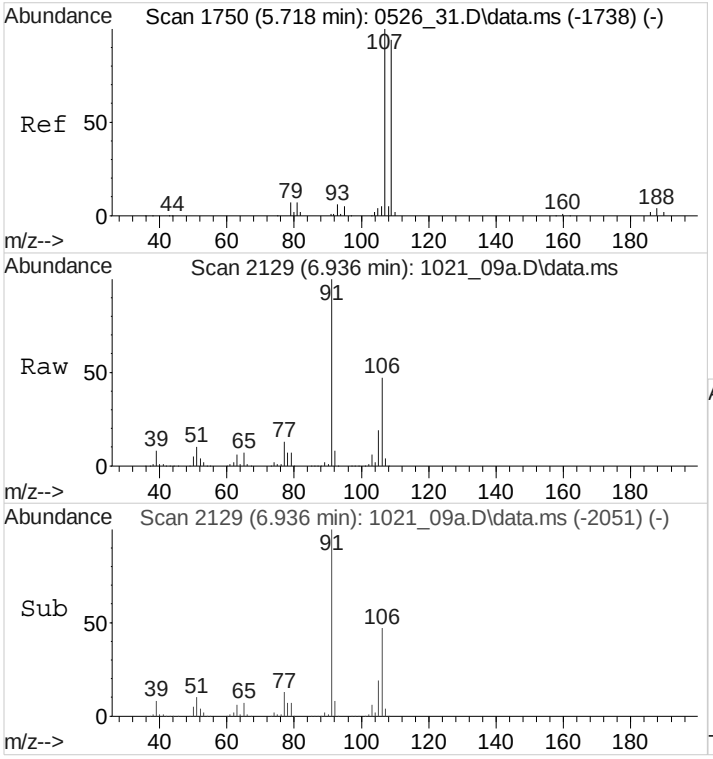


#63
M&P-XYLENE
Concen: 55.7883702 ppb
RT: 6.627 min Scan# 2033
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:106 Resp: 721362

Ion	Ratio	Lower	Upper
106	100		
91	206.5	164.6	247.0

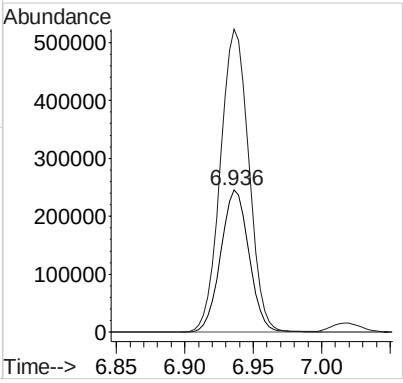


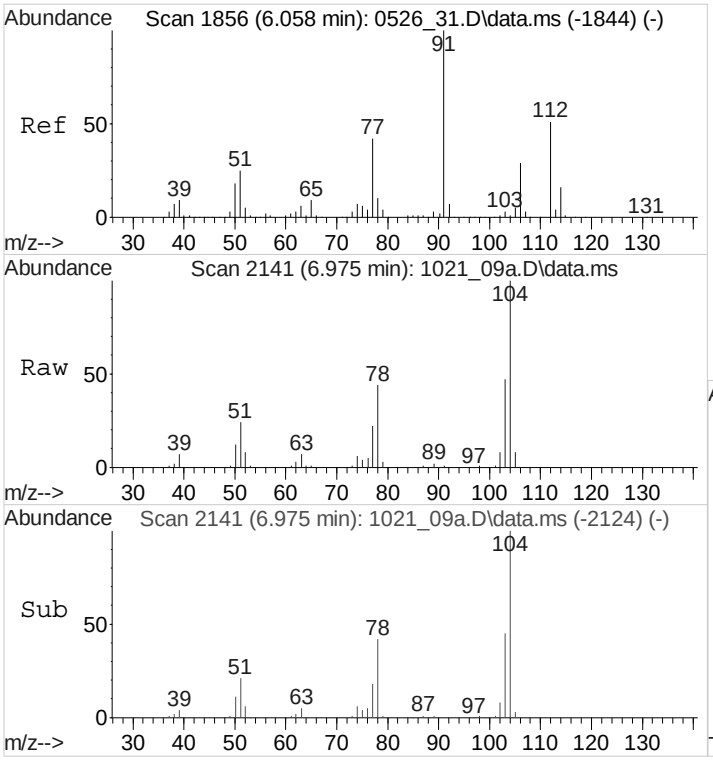


#64
O-XYLENE
Concen: 28.6599005 ppb
RT: 6.936 min Scan# 2129
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:106 Resp: 352447

Ion	Ratio	Lower	Upper
106	100		
91	214.6	169.8	254.6

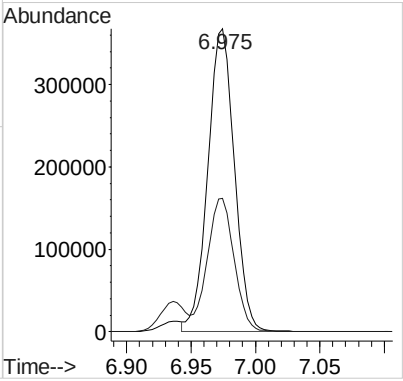


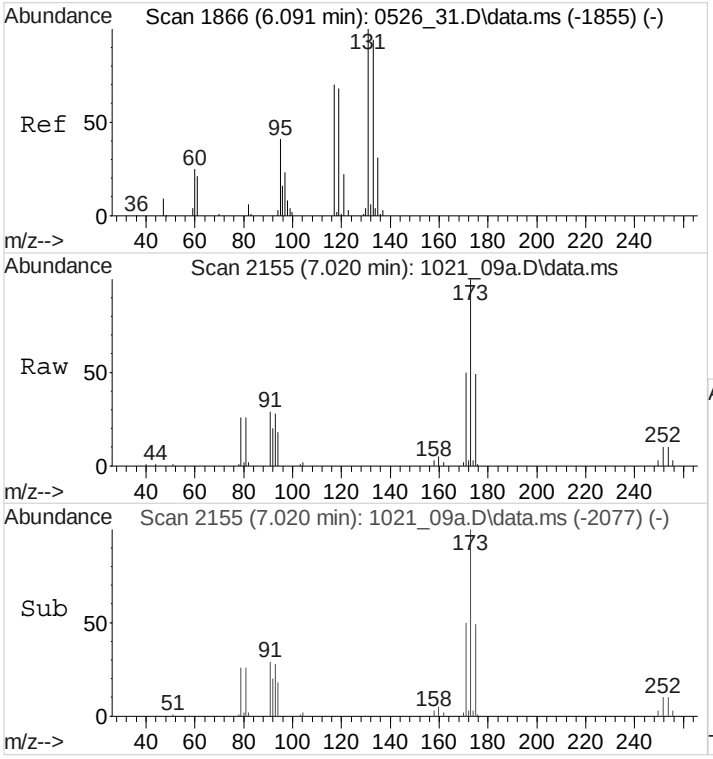


#65
STYRENE
Concen: 29.9494898 ppb
RT: 6.975 min Scan# 2141
Delta R.T. 0.001 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:104 Resp: 525603

Ion	Ratio	Lower	Upper
104	100		
78	44.5	33.8	50.8

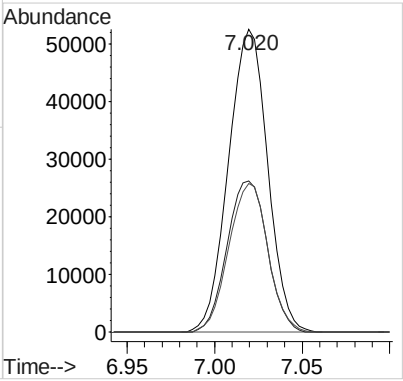


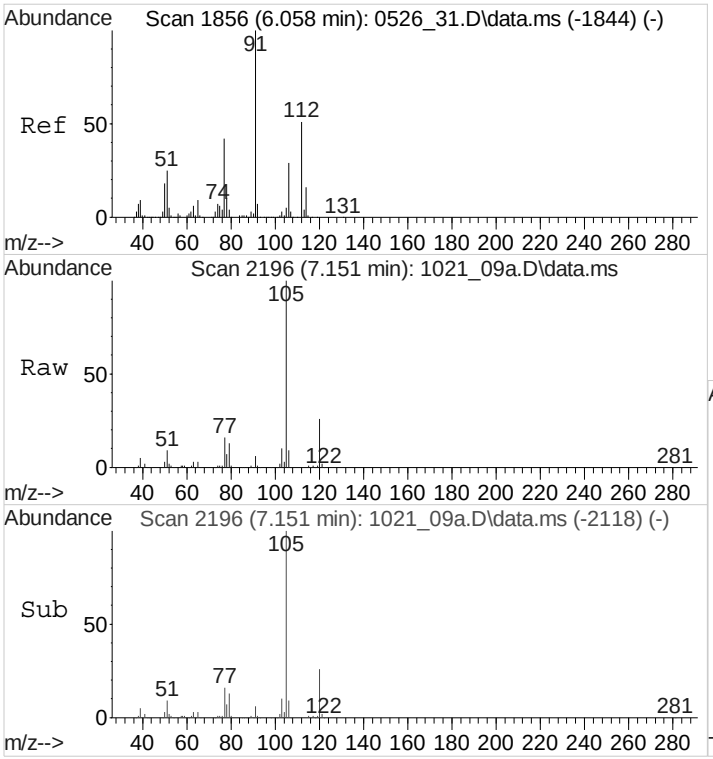


#66
Bromoform
Concen: 28.4149411 ppb
RT: 7.020 min Scan# 2155
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:173 Resp: 81690

Ion	Ratio	Lower	Upper
173	100		
171	51.2	41.0	61.4
175	49.1	39.5	59.3

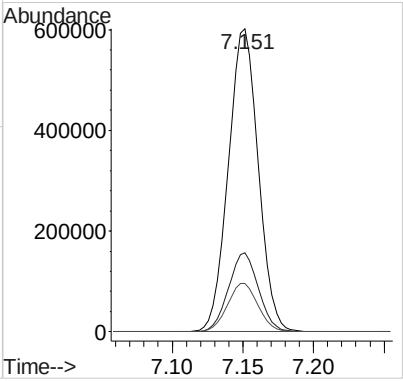


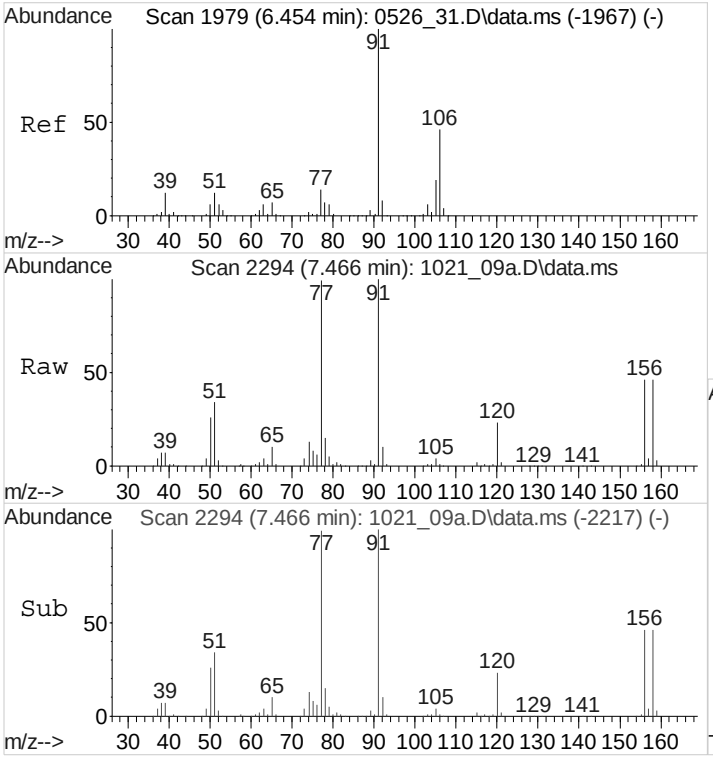


#67
Isopropylbenzene
Concen: 29.4646945 ppb
RT: 7.151 min Scan# 2196
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:105 Resp: 887524

Ion	Ratio	Lower	Upper
105	100		
120	25.9	20.7	31.1
77	16.2	13.0	19.4

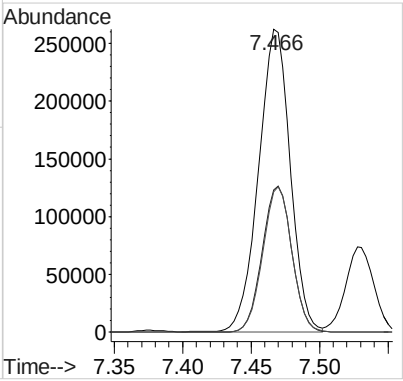


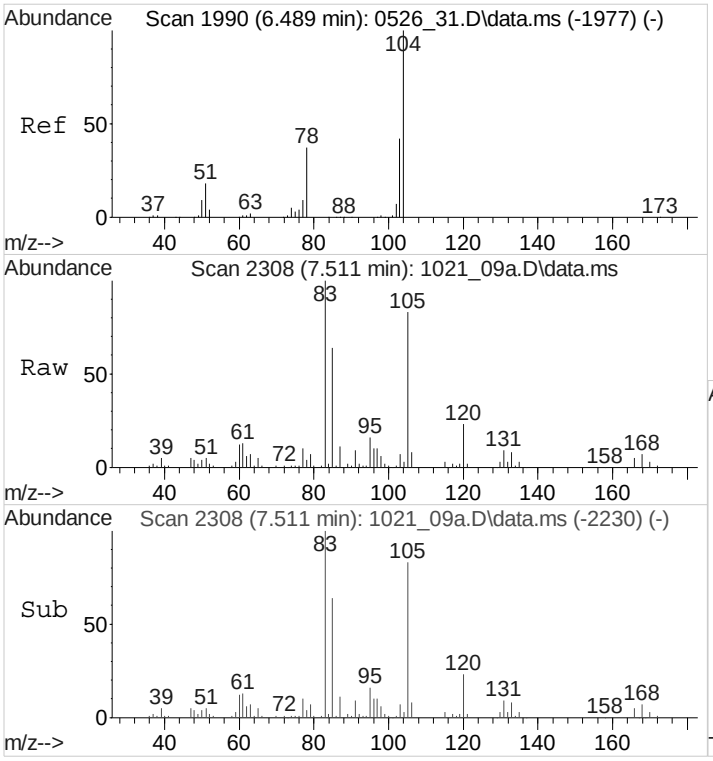


#69
Bromobenzene
Concen: 26.3473631 ppb
RT: 7.466 min Scan# 2294
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 77 Resp: 420645

Ion	Ratio	Lower	Upper
77	100		
156	45.1	35.4	53.2
158	44.1	33.9	50.9

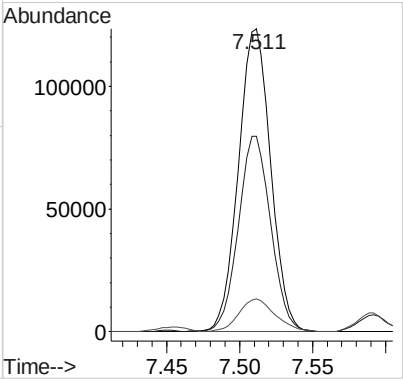


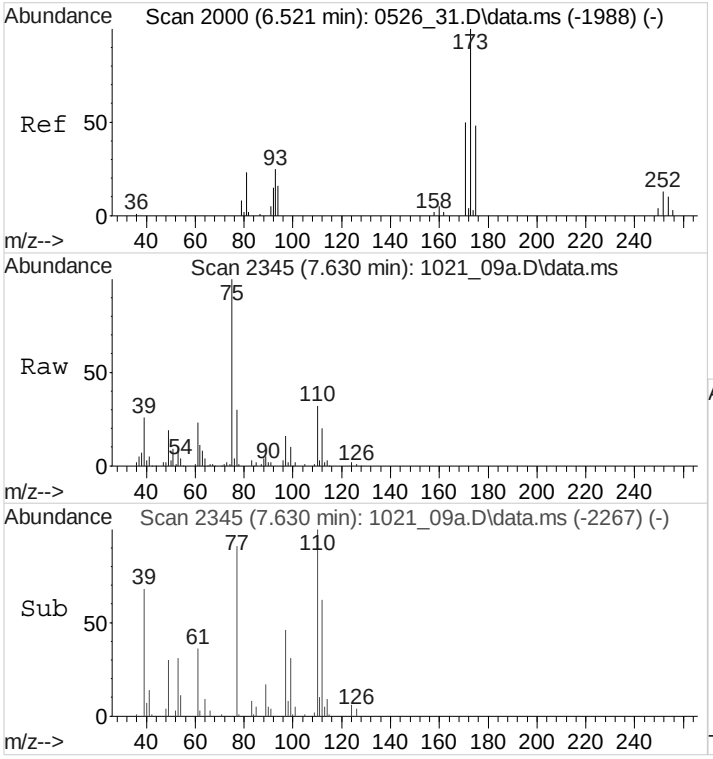


#70
1,1,2,2-TETRACHLOROETHANE
Concen: 27.5814006 ppb
RT: 7.511 min Scan# 2308
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 83 Resp: 190070

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.1	76.7
87	12.1	9.4	14.2

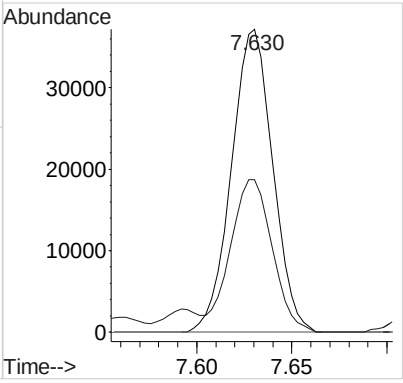


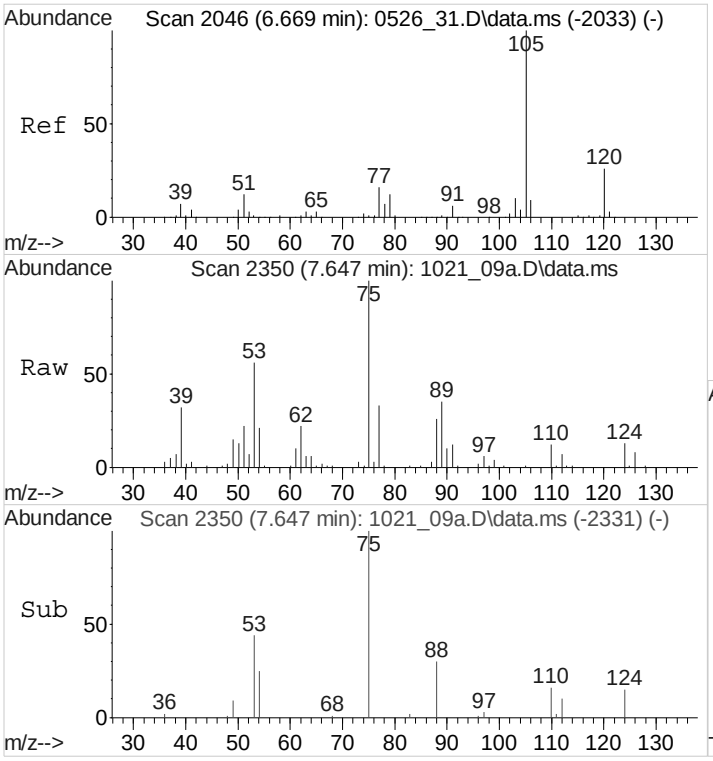


#71
1,2,3-TRICHLOROPROPANE
Concen: 28.9211582 ppb
RT: 7.630 min Scan# 2345
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:110 Resp: 56190

Ion	Ratio	Lower	Upper
110	100		
97	51.5	39.6	59.4

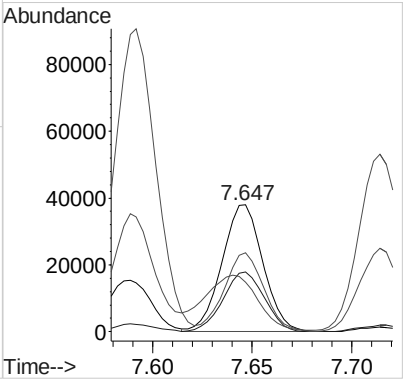


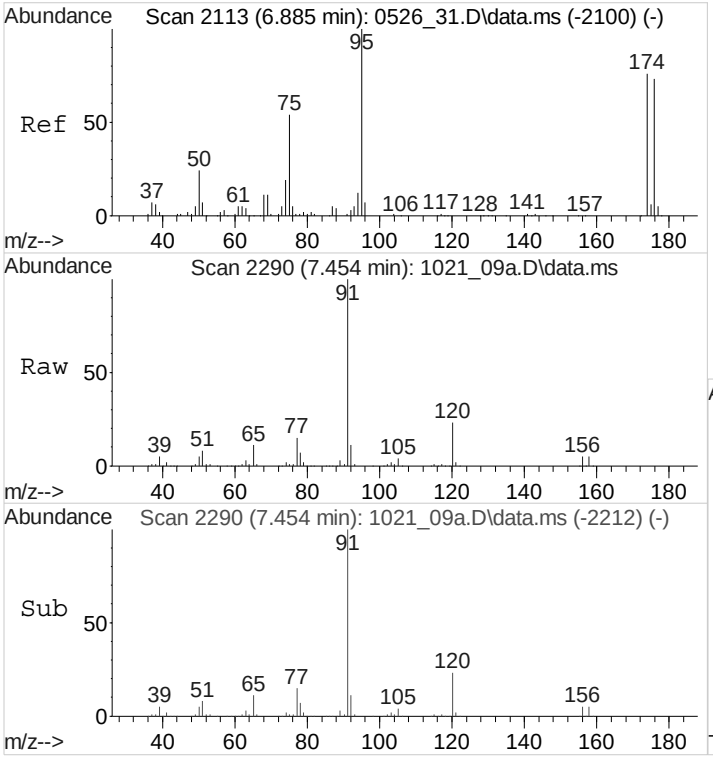


#72
TRANS-1,4-DICHLORO-2-BUTENE
Concen: 33.7231202 ppb
RT: 7.647 min Scan# 2350
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 53 Resp: 54410

Ion	Ratio	Lower	Upper
53	100		
88	47.3	40.6	60.8
89	57.7	49.2	73.8
62	58.6	48.4	72.6

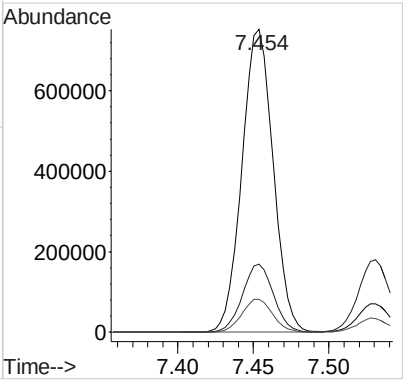


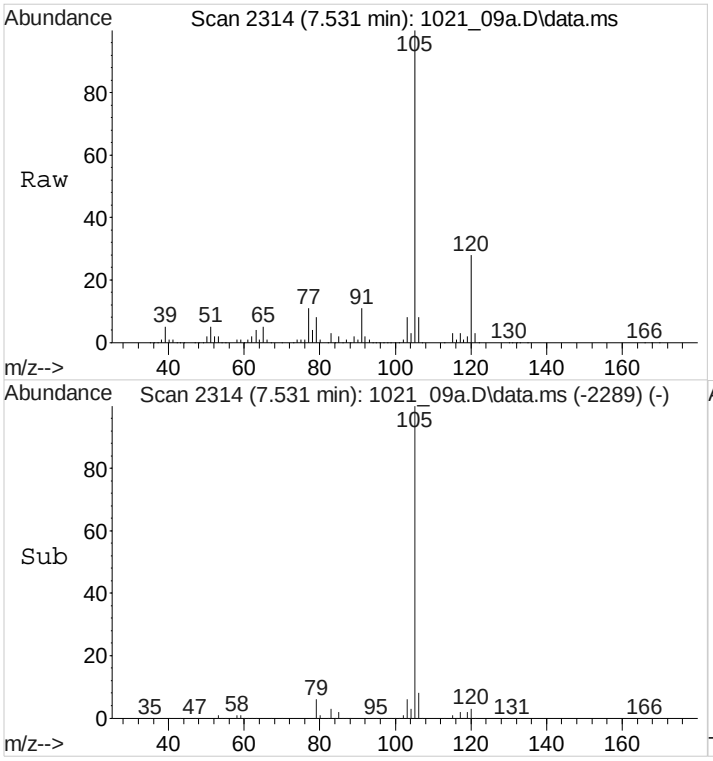


#73
n-Propylbenzene
Concen: 26.5648016 ppb
RT: 7.454 min Scan# 2290
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 91 Resp: 1082556

Ion	Ratio	Lower	Upper
91	100		
120	22.3	17.6	26.4
65	10.8	8.7	13.1

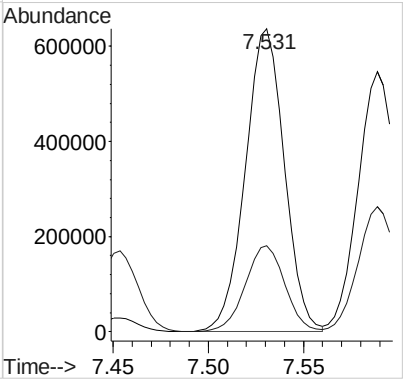


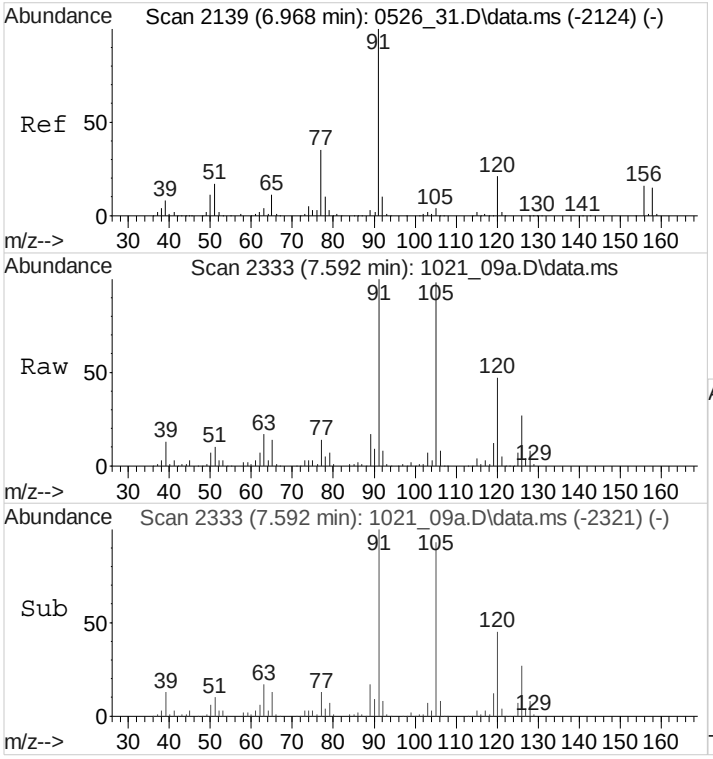


#74
4-ETHYLTOLUENE
Concen: 27.5184652 ppb
RT: 7.531 min Scan# 2314
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:105 Resp: 905324

Ion	Ratio	Lower	Upper
105	100		
120	28.6	22.6	33.8

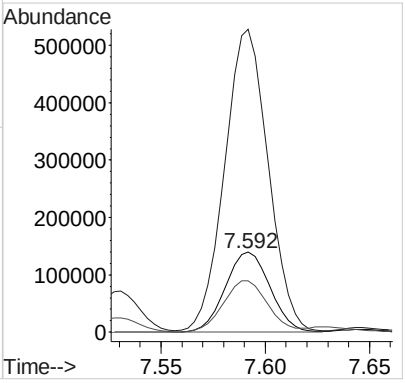


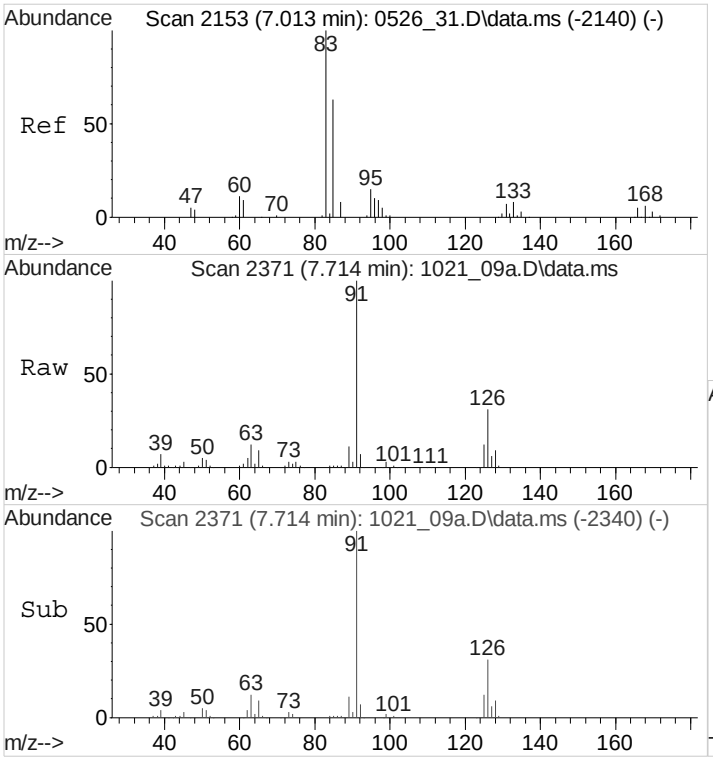


#75
2-Chlorotoluene
Concen: 26.3109295 ppb
RT: 7.592 min Scan# 2333
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:126 Resp: 206786

Ion	Ratio	Lower	Upper
126	100		
91	365.9	298.7	448.1
63	63.2	49.5	74.3

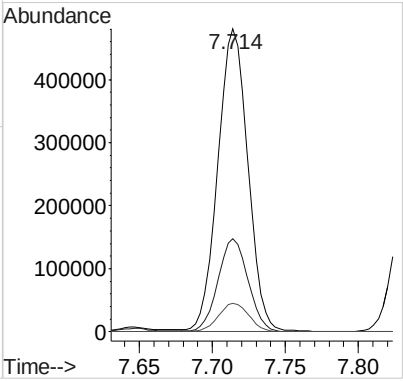


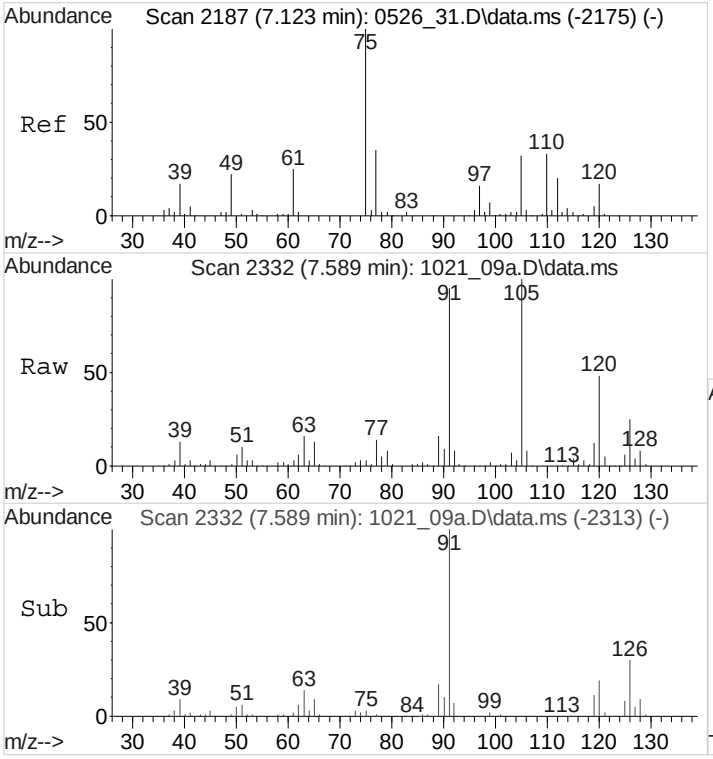


#76
4-Chlorotoluene
Concen: 27.7214033 ppb
RT: 7.714 min Scan# 2371
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 91 Resp: 690068

Ion	Ratio	Lower	Upper
91	100		
126	30.6	24.5	36.7
128	9.5	7.2	12.0

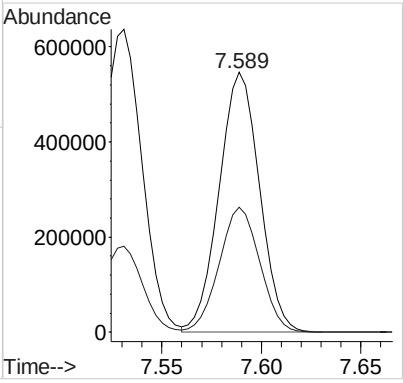


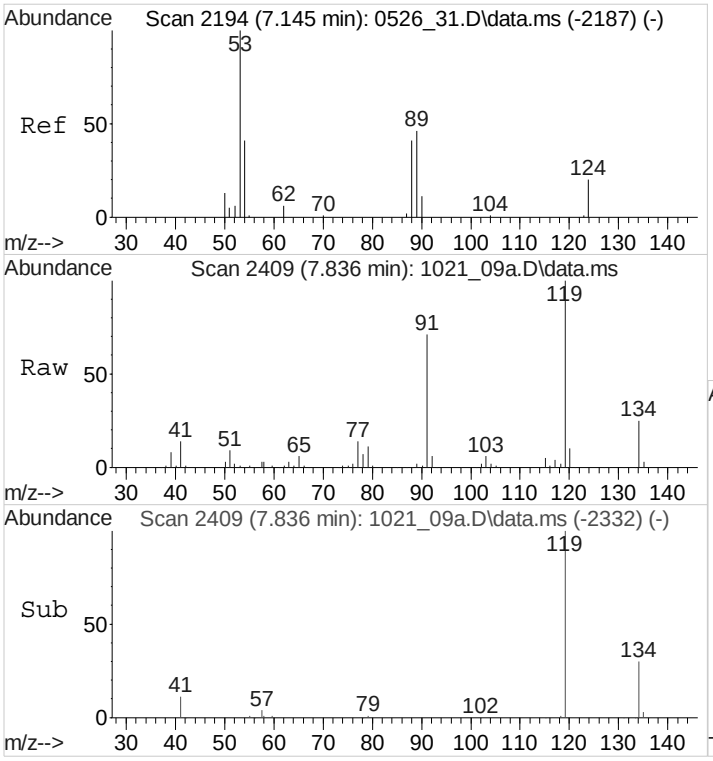


#77
1,3,5-Trimethylbenzene
Concen: 27.9443104 ppb
RT: 7.589 min Scan# 2332
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:105 Resp: 770033

Ion	Ratio	Lower	Upper
105	100		
120	48.4	38.9	58.3

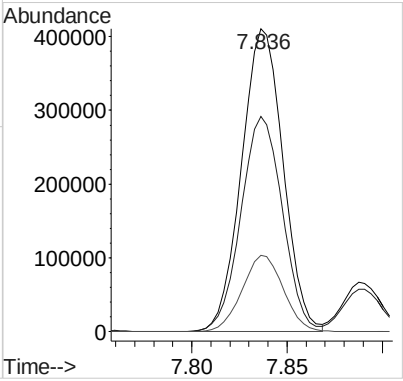


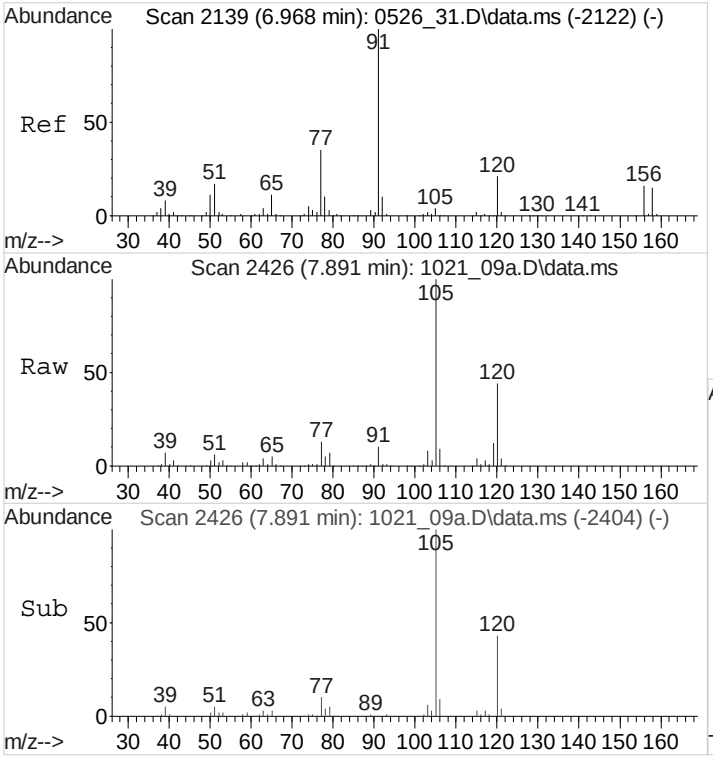


#78
tert-Butylbenzene
Concen: 28.8189013 ppb
RT: 7.836 min Scan# 2409
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:119 Resp: 623711

Ion	Ratio	Lower	Upper
119	100		
91	71.0	56.0	84.0
134	25.1	19.8	29.6

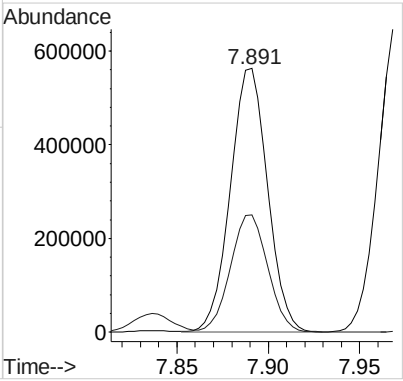


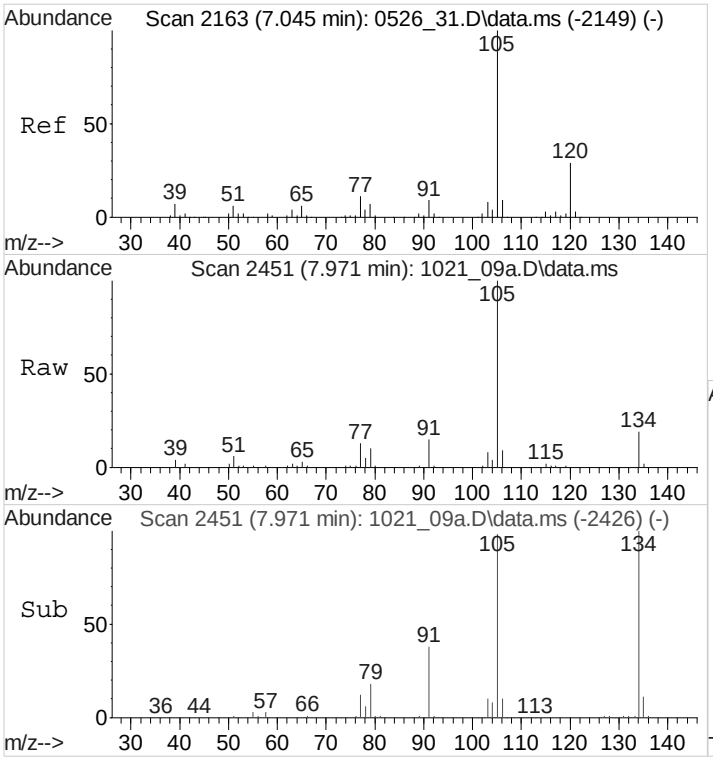


#79
1,2,4-Trimethylbenzene
Concen: 28.6549997 ppb
RT: 7.891 min Scan# 2426
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:105 Resp: 796010

Ion	Ratio	Lower	Upper
105	100		
120	44.8	36.4	54.6

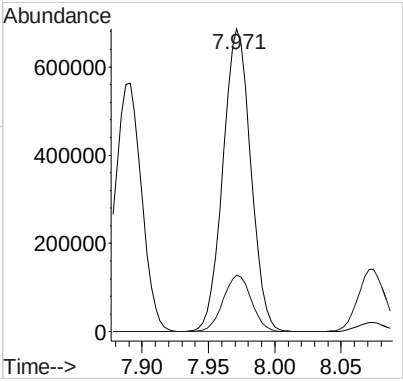


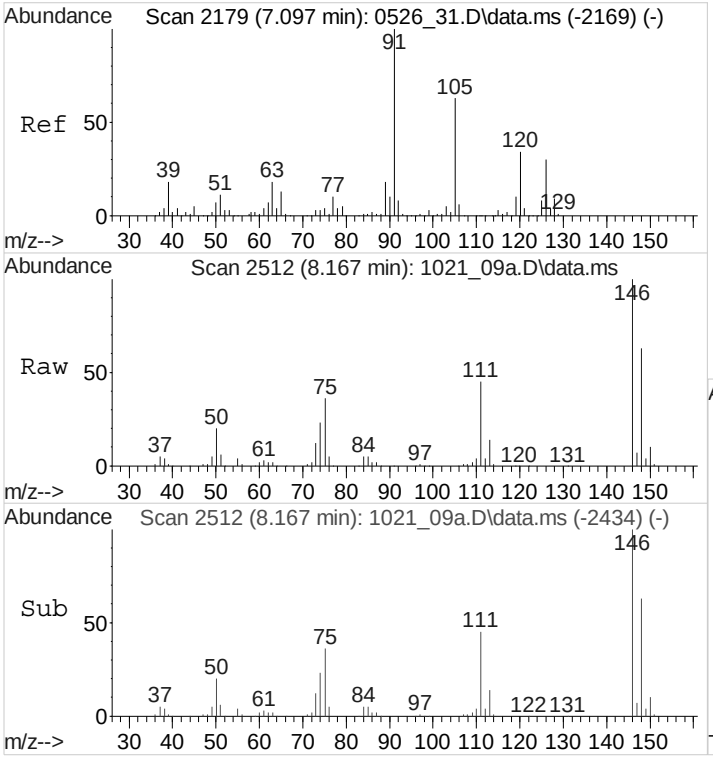


#80
sec-Butylbenzene
Concen: 29.5197047 ppb
RT: 7.971 min Scan# 2451
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:105 Resp: 1001074

Ion	Ratio	Lower	Upper
105	100		
134	18.9	15.0	22.4

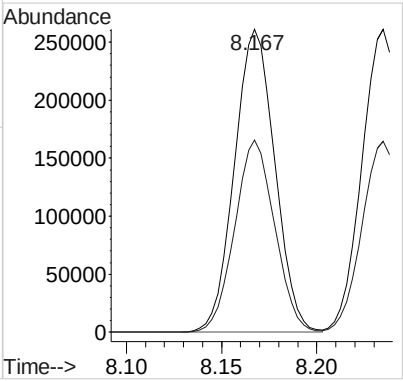


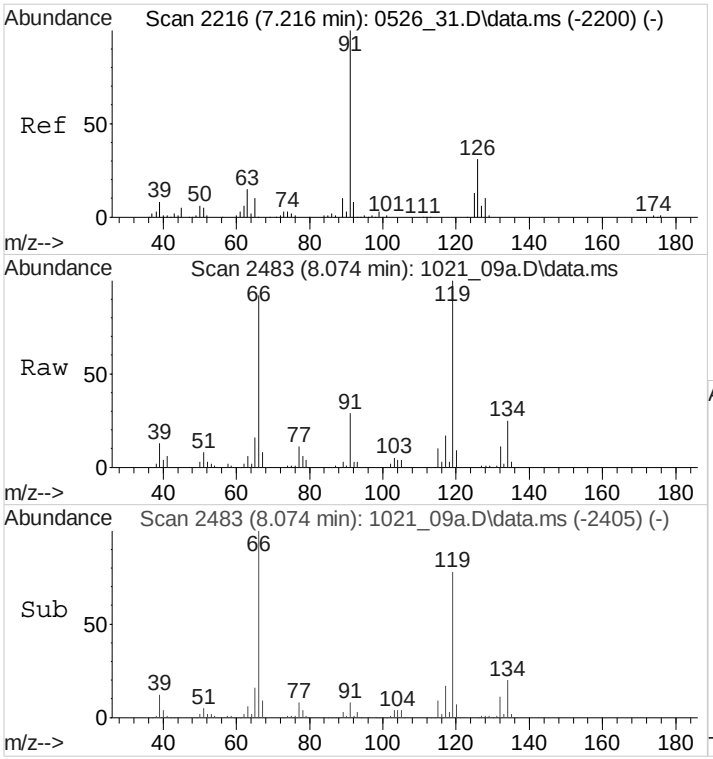


#81
1,3-DICHLOROBENZENE
Concen: 25.7418959 ppb
RT: 8.167 min Scan# 2512
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:146 Resp: 384810

Ion	Ratio	Lower	Upper
146	100		
148	62.8	49.2	73.8

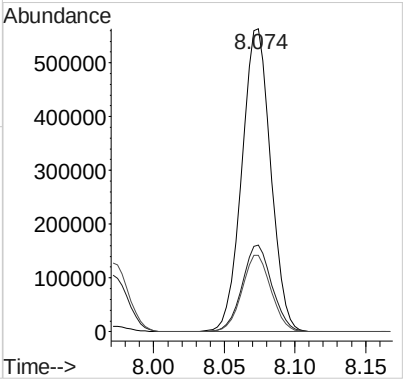


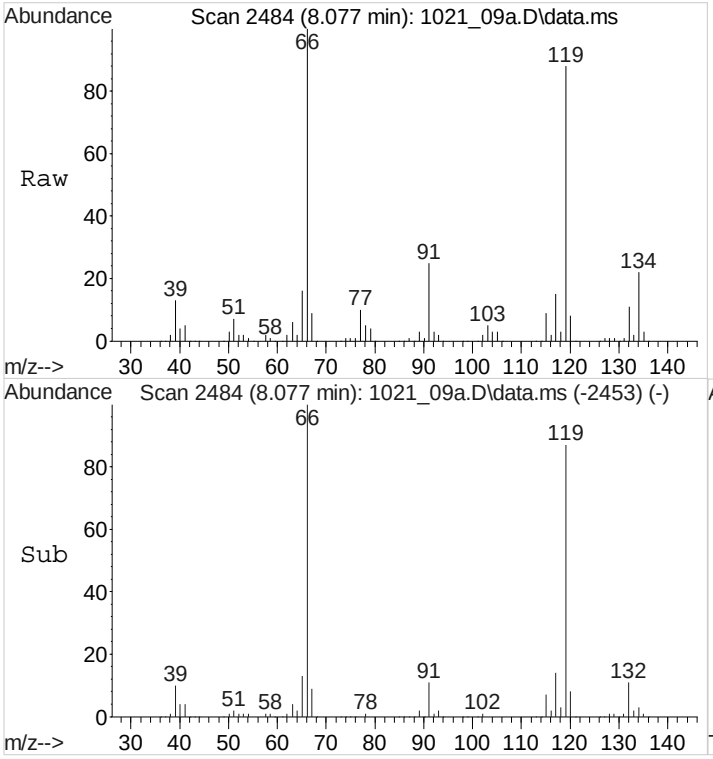


#82
p-Isopropyltoluene
Concen: 30.4504151 ppb
RT: 8.074 min Scan# 2483
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:119 Resp: 801203

Ion	Ratio	Lower	Upper
119	100		
91	29.6	23.5	35.3
134	25.4	20.1	30.1

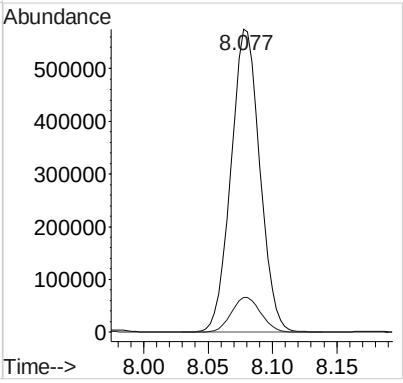


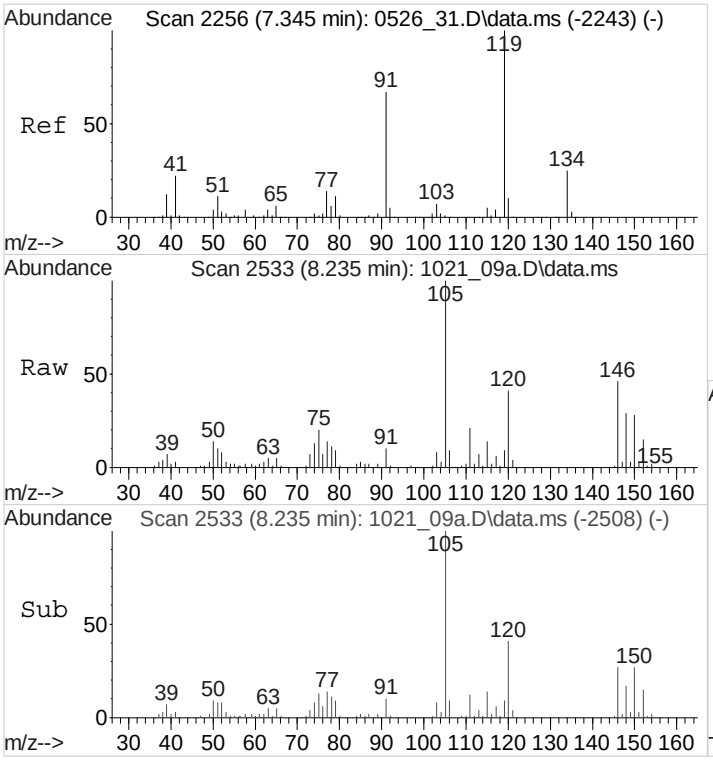


#83
DICYCLOPENTADIENE
Concen: 34.2209703 ppb
RT: 8.077 min Scan# 2484
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 66 Resp: 898178

Ion	Ratio	Lower	Upper
66	100		
132	11.7	9.3	13.9

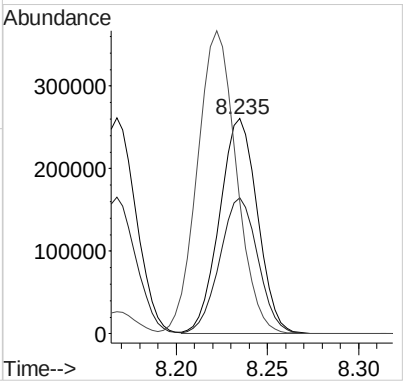


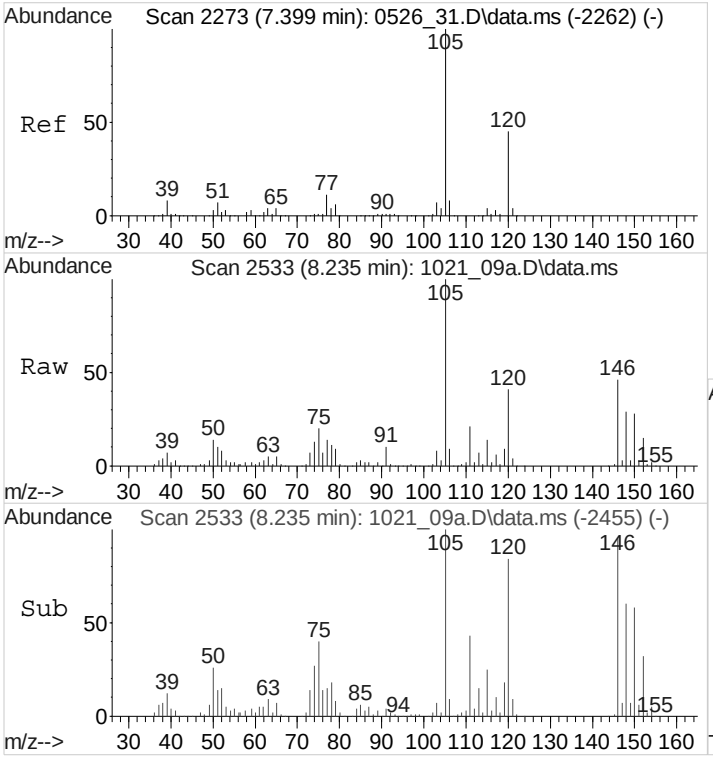


#85
1,4-DICHLOROBENZENE
Concen: 24.8115276 ppb
RT: 8.235 min Scan# 2533
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:146 Resp: 377306

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.7	76.1
150	145.0	115.5	173.3

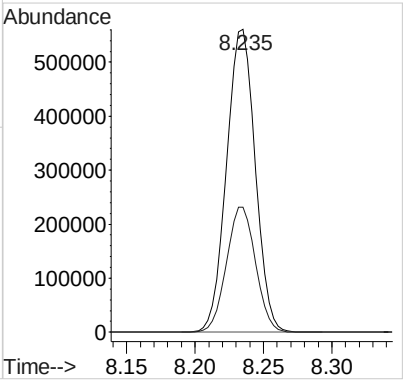


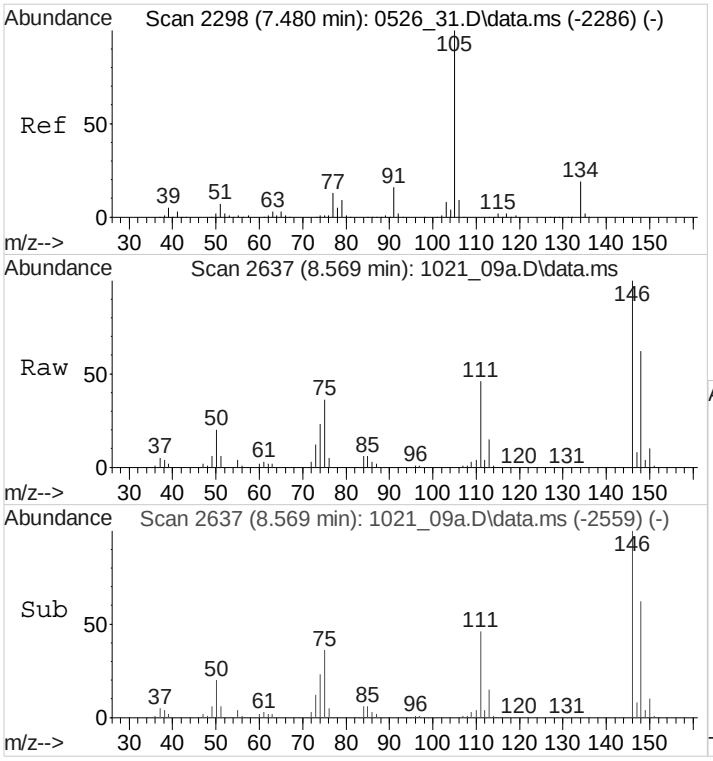


#86
1,2,3-TRIMETHYLBENZENE
Concen: 27.8405619 ppb
RT: 8.235 min Scan# 2533
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:105 Resp: 817542

Ion	Ratio	Lower	Upper
105	100		
120	41.8	33.0	49.6

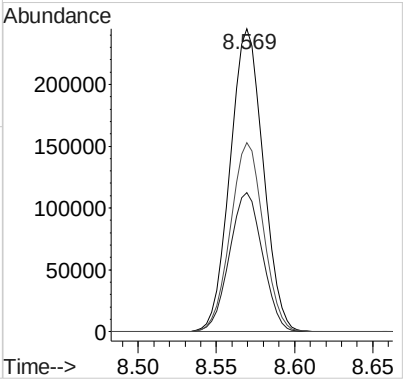


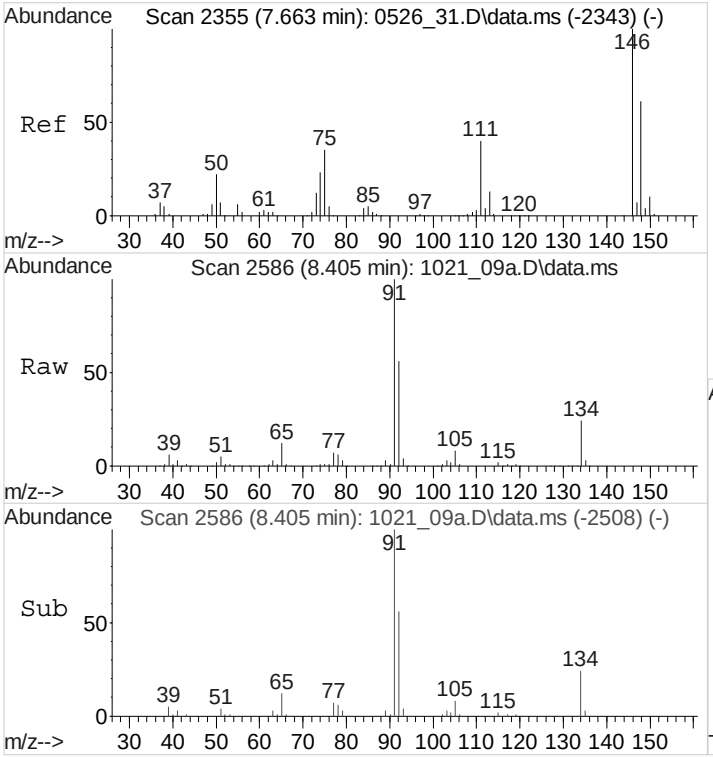


#87
1,2-DICHLOROBENZENE
Concen: 27.1392745 ppb
RT: 8.569 min Scan# 2637
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:146 Resp: 360524

Ion	Ratio	Lower	Upper
146	100		
111	45.9	37.4	56.2
148	61.9	50.6	75.8

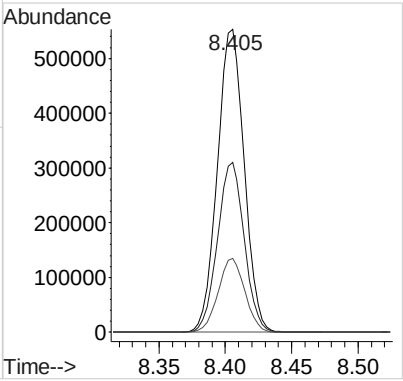


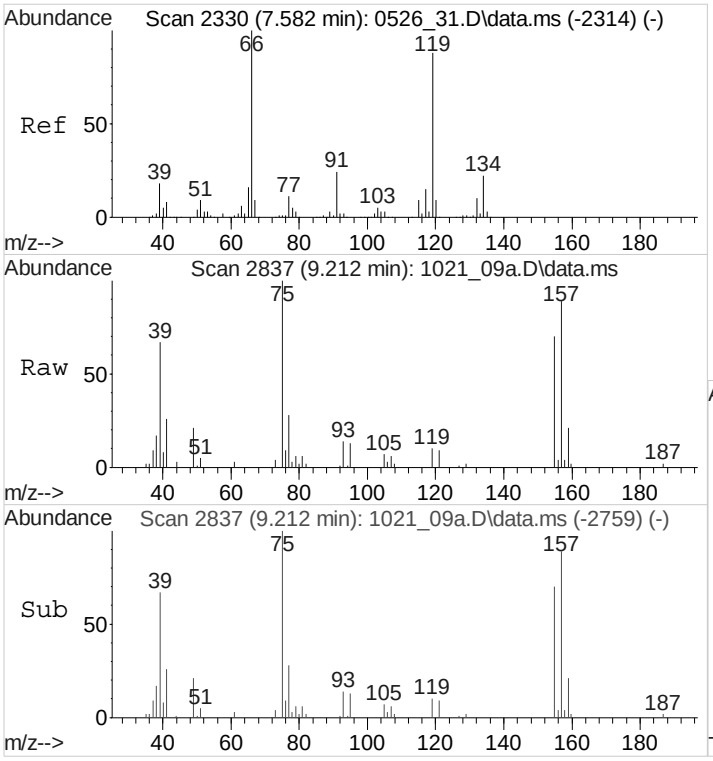


#88
n-Butylbenzene
Concen: 29.9665617 ppb
RT: 8.405 min Scan# 2586
Delta R.T. 0.000 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 91 Resp: 776927

Ion	Ratio	Lower	Upper
91	100		
92	55.8	44.2	66.4
134	24.2	18.9	28.3

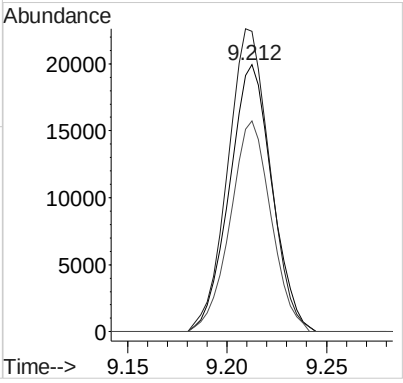


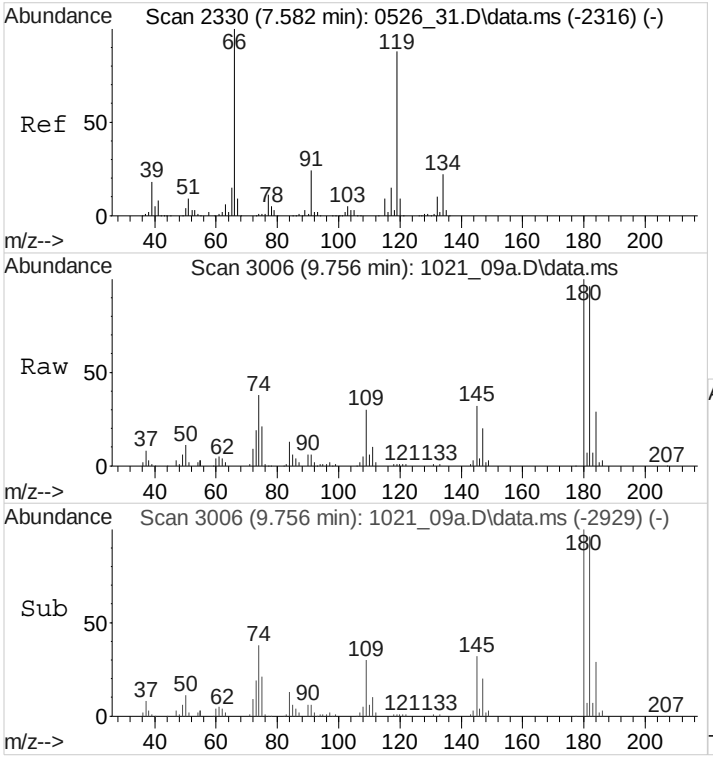


#89
1,2-Dibromo-3-chloropropane
Concen: 32.1866056 ppb
RT: 9.212 min Scan# 2837
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:157 Resp: 29774

Ion	Ratio	Lower	Upper
157	100		
75	111.6	91.9	137.9
155	75.4	64.6	96.8

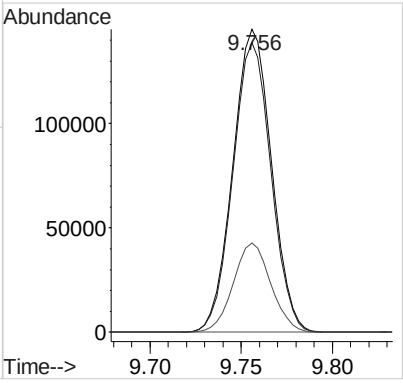


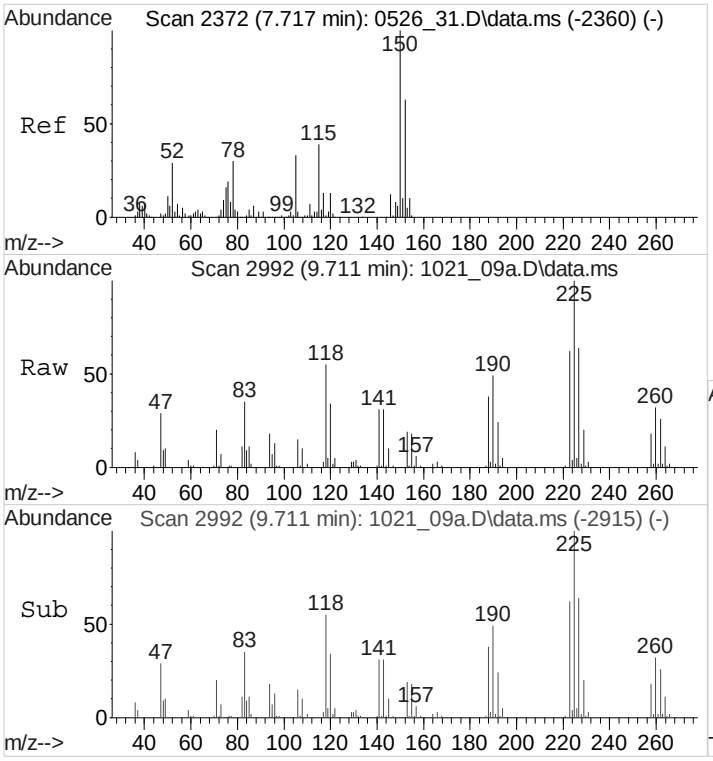


#90
1,2,4-Trichlorobenzene
Concen: 29.1700850 ppb
RT: 9.756 min Scan# 3006
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:180 Resp: 213690

Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.4	114.6
184	28.6	23.4	35.0

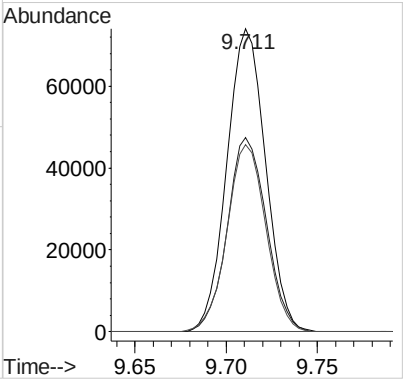


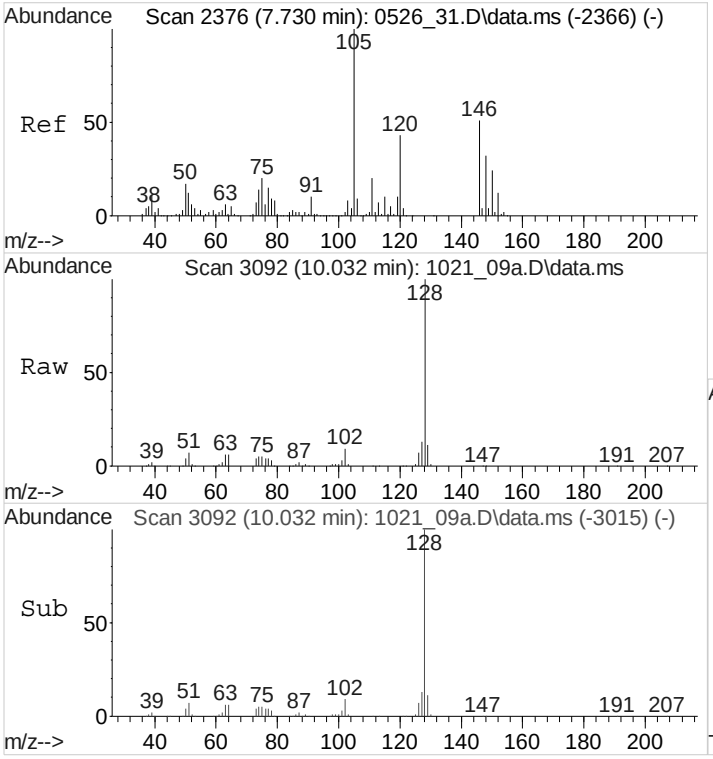


#91
HEXACHLORO-1,3-BUTADIENE
Concen: 27.0795658 ppb
RT: 9.711 min Scan# 2992
Delta R.T. -0.003 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:225 Resp: 109303

Ion	Ratio	Lower	Upper
225	100		
227	64.8	50.7	76.1
223	62.1	50.1	75.1

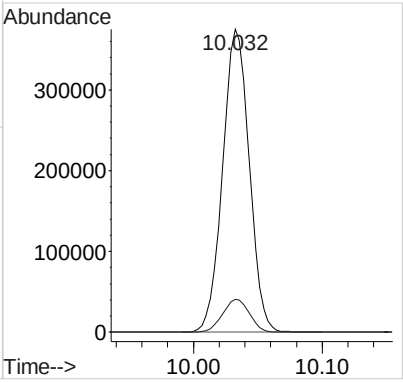


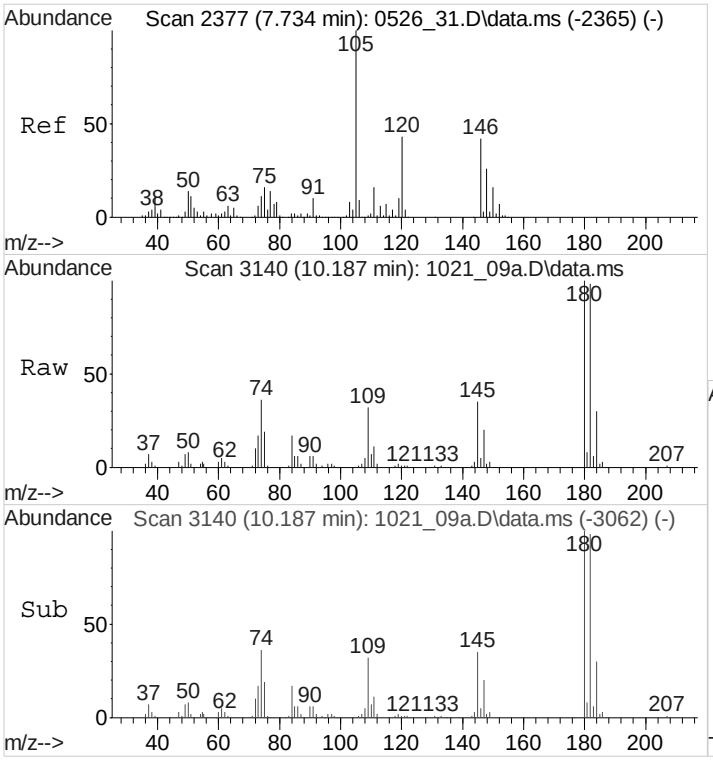


#92
Naphthalene
Concen: 30.4870445 ppb
RT: 10.032 min Scan# 3092
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:128 Resp: 538439

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.3	12.5

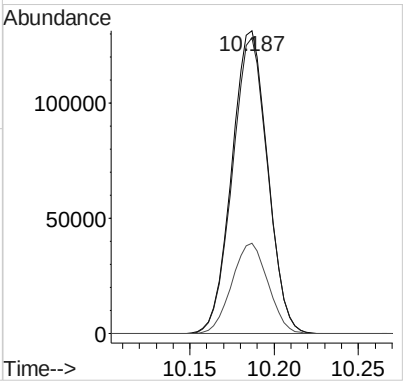


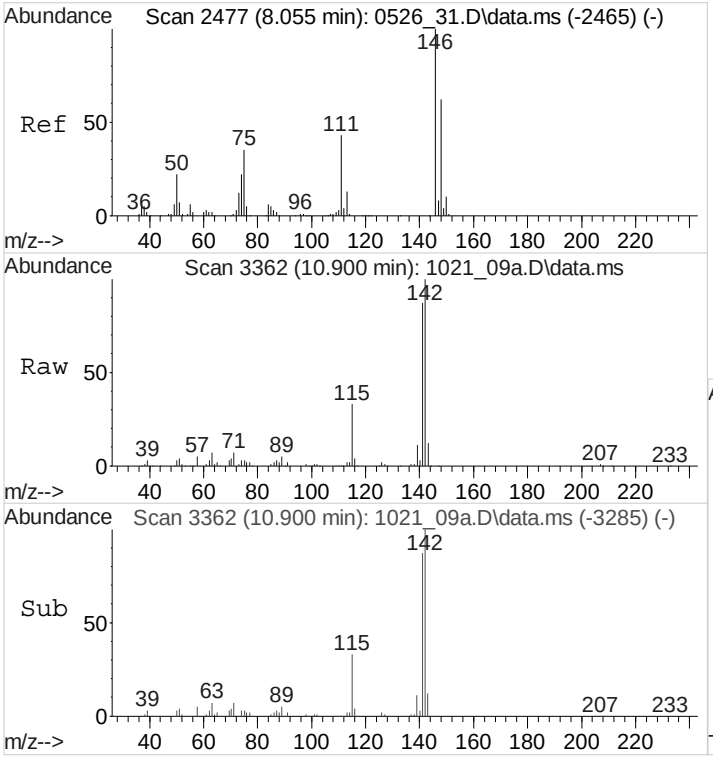


#93
1,2,3-Trichlorobenzene
Concen: 27.6758086 ppb
RT: 10.187 min Scan# 3140
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:180 Resp: 194730

Ion	Ratio	Lower	Upper
180	100		
182	96.3	77.1	115.7
184	30.1	24.5	36.7

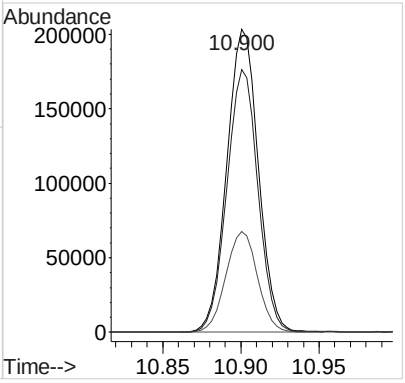


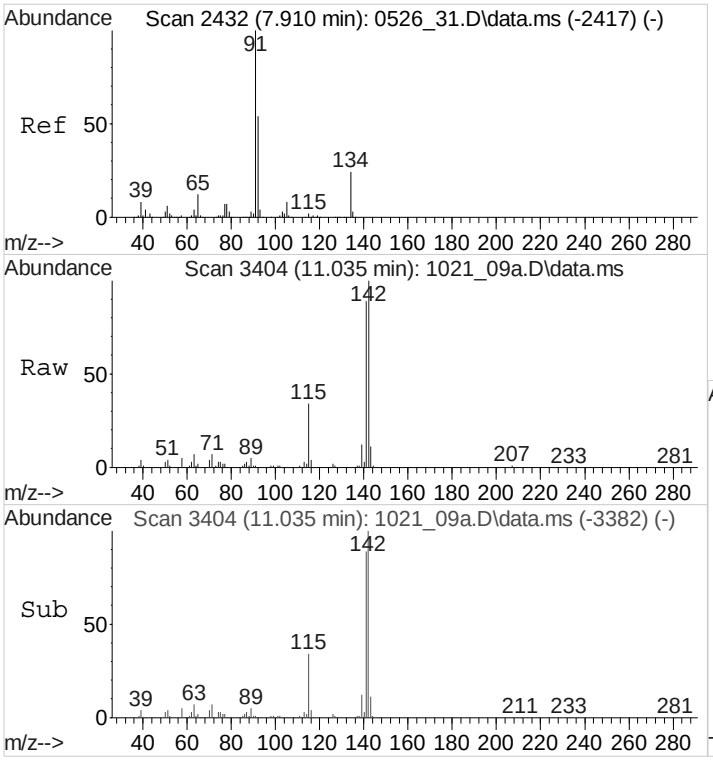


#94
1-Methylnaphthalene
Concen: 30.6227935 ppb
RT: 10.900 min Scan# 3362
Delta R.T. -0.003 min
Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:142 Resp: 285928

Ion	Ratio	Lower	Upper
142	100		
141	85.2	69.7	104.5
115	33.3	25.3	37.9

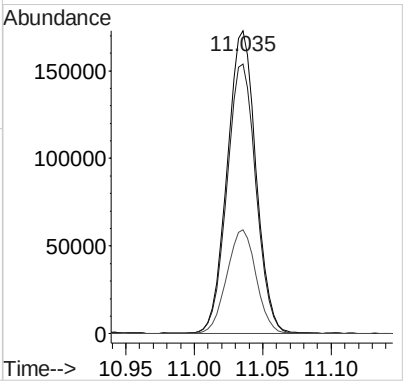


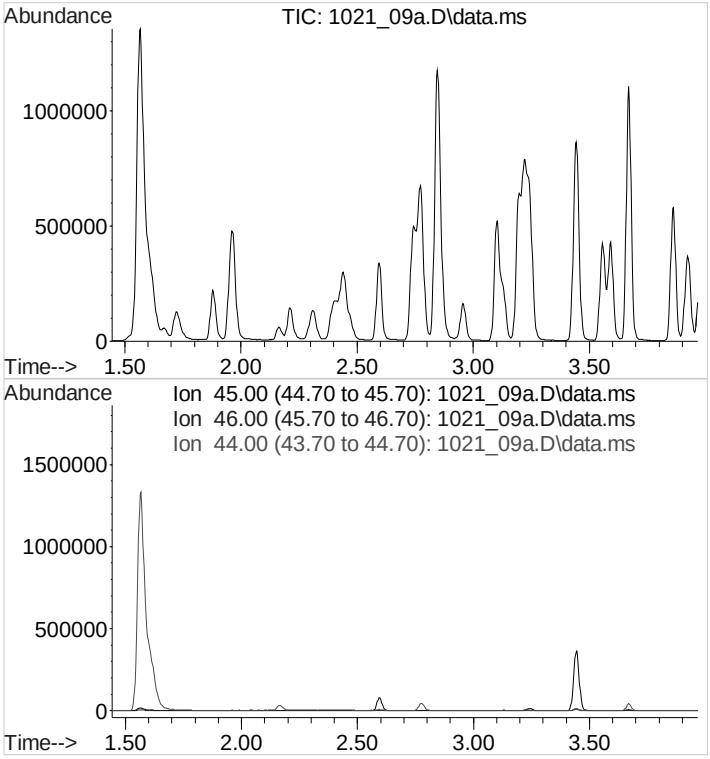


#95
2-Methylnaphthalene
Concen: 32.5151883 ppb
RT: 11.035 min Scan# 3404
Delta R.T. 0.000 min
Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion:142 Resp: 253455

Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.4	105.6
115	35.0	27.4	41.0



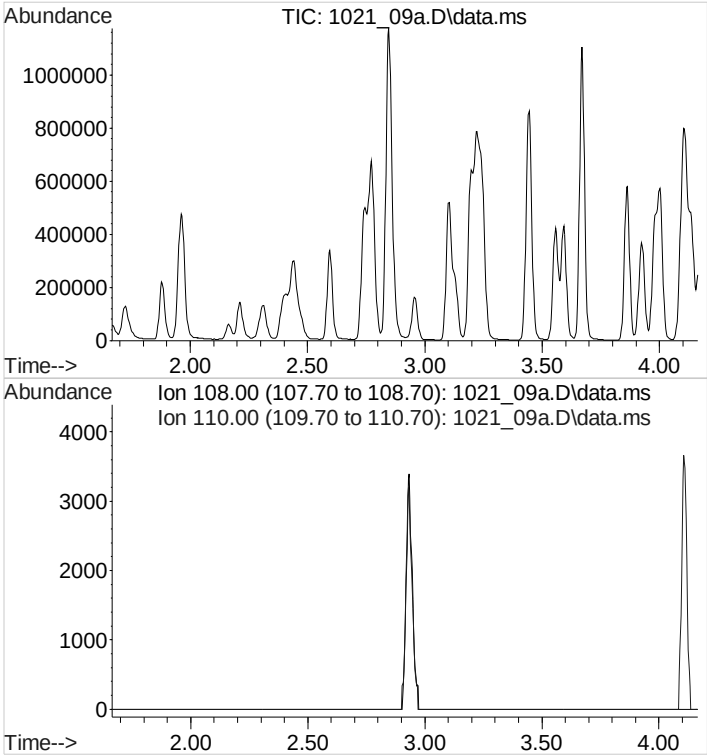


#97
ETHANOL
Concen: N.D.
Expected RT: 2.69 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 45

Sig	Exp Ratio
45	100
46	41.6
44	0.0

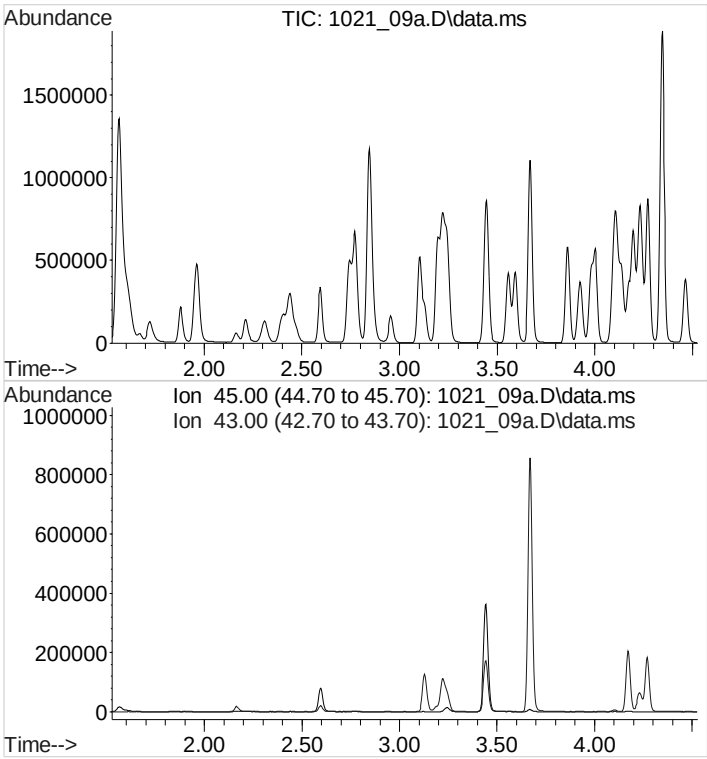


#98
Bromoethane
Concen: N.D.
Expected RT: 2.91 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 108

Sig	Exp Ratio
108	100
110	98.0

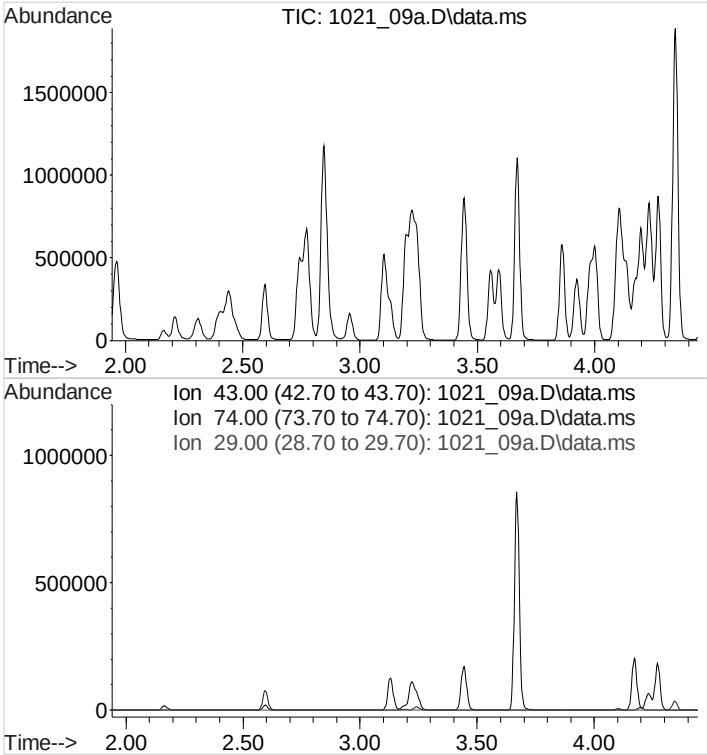


#99
2-PROPANOL
Concen: N.D.
Expected RT: 3.03 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 45

Sig	Exp Ratio
45	100
43	24.2

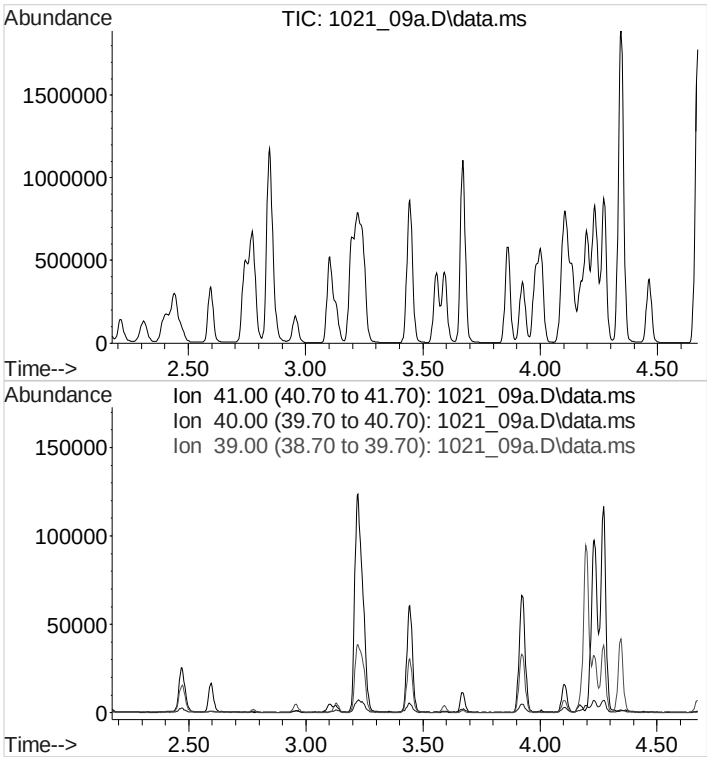


#100
Methyl Acetate
Concen: N.D.
Expected RT: 3.19 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
74	25.8
29	0.0

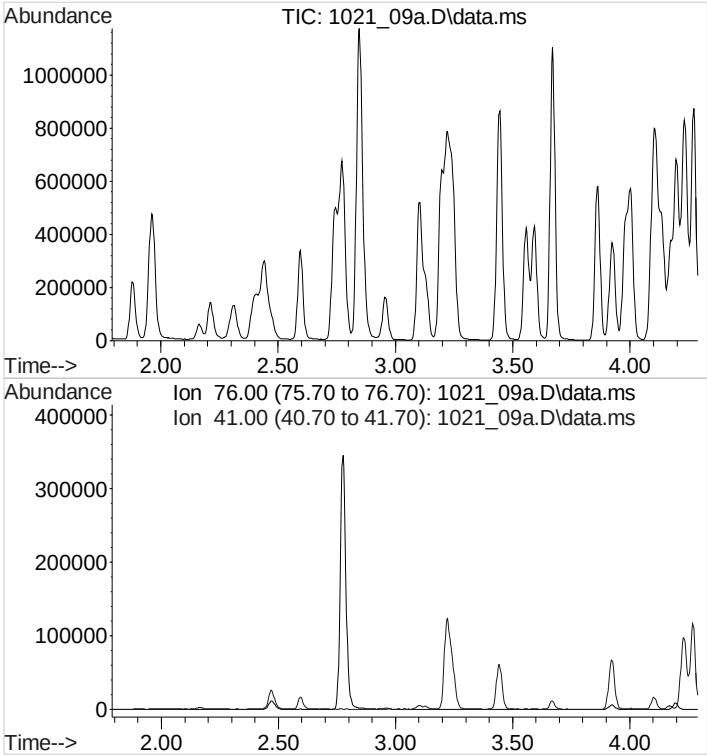


#101
ACETONITRILE
Concen: N.D.
Expected RT: 3.42 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
40	52.2
39	19.4

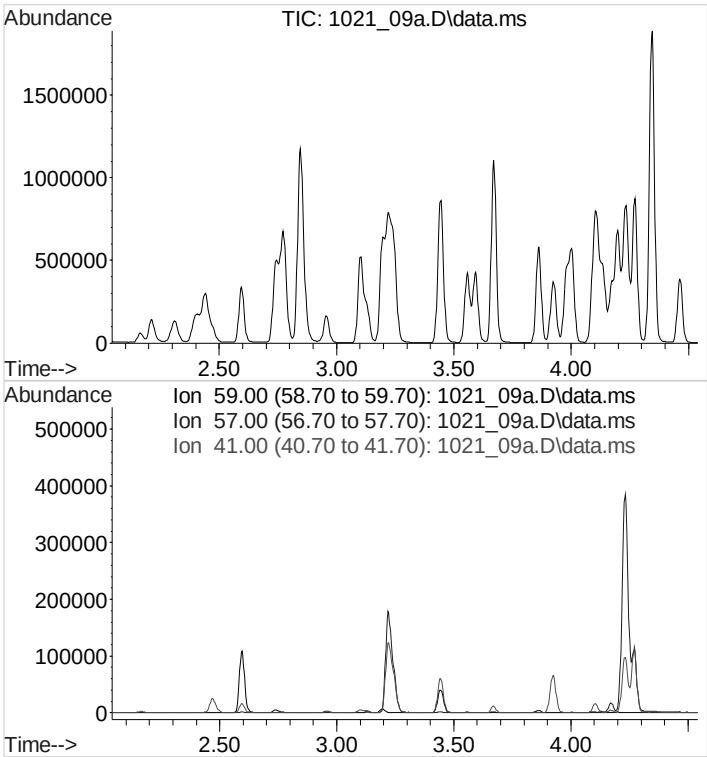


#102
ALLYL CHLORIDE
Concen: N.D.
Expected RT: 3.04 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 76

Sig	Exp Ratio
76	100
41	247.1

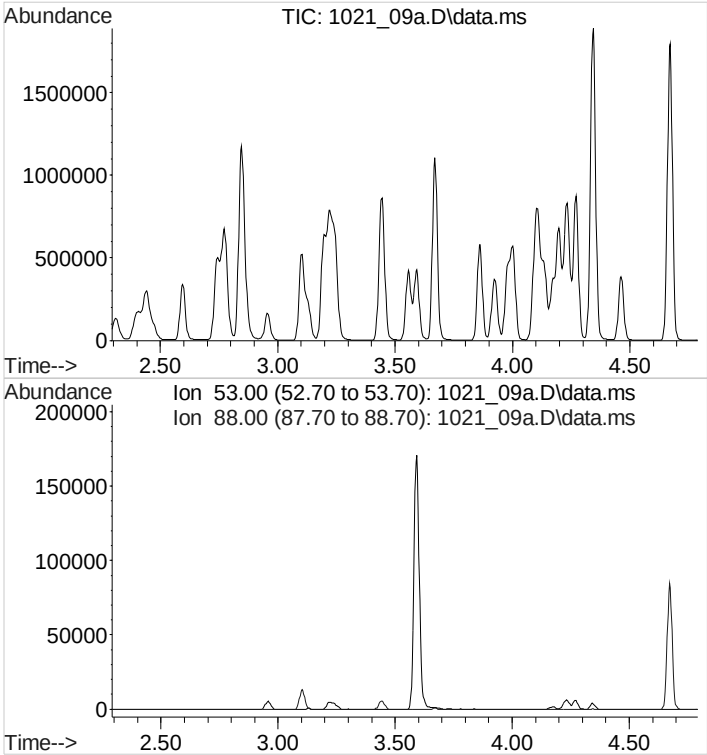


#103
tert-BUTYL ALCOHOL
Concen: N.D.
Expected RT: 3.29 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 59

Sig	Exp Ratio
59	100
57	9.8
41	26.4

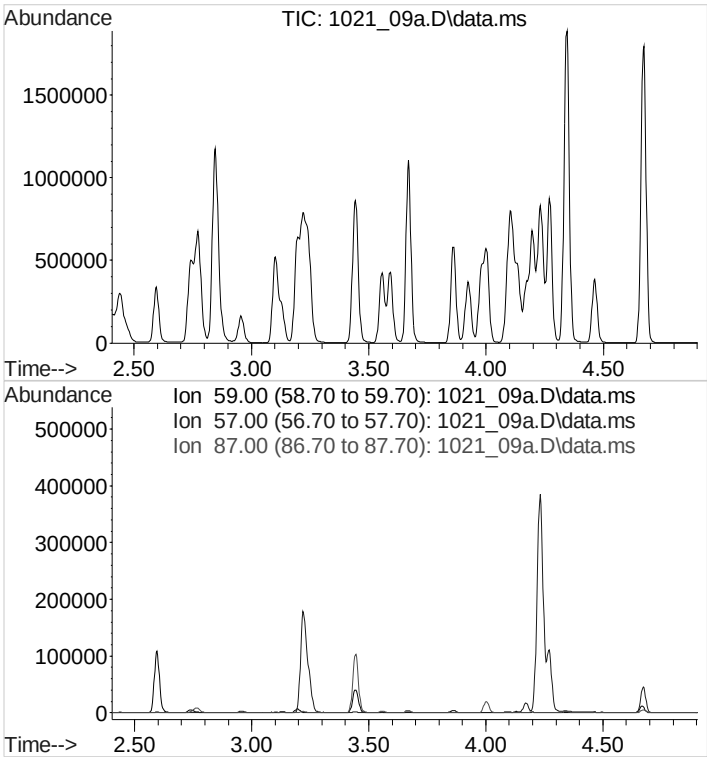


#104
chloroprene
Concen: N.D.
Expected RT: 3.54 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 53

Sig	Exp Ratio
53	100
88	57.9

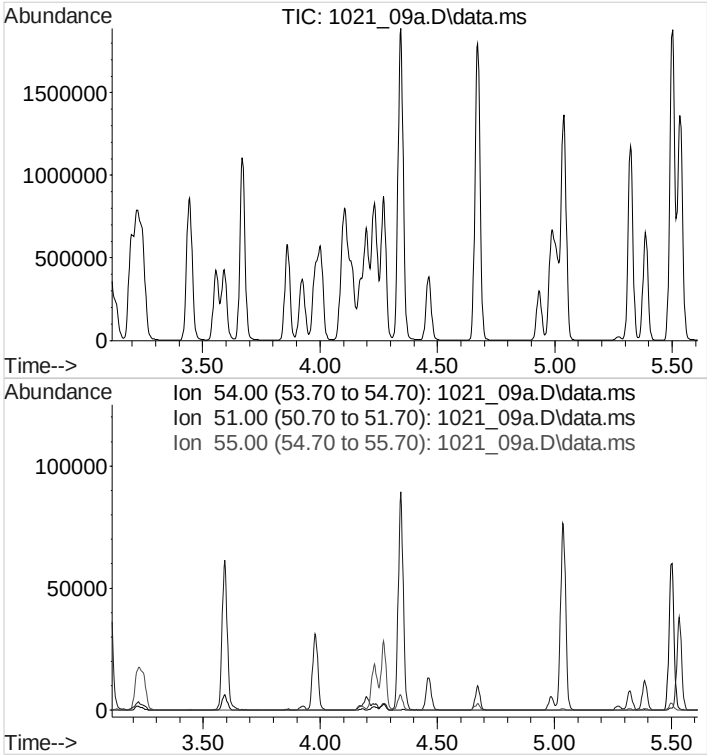


#105
ETHYL TERT-BUTYL ETHER
Concen: N.D.
Expected RT: 3.65 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 59

Sig	Exp Ratio
59	100
57	32.6
87	42.2

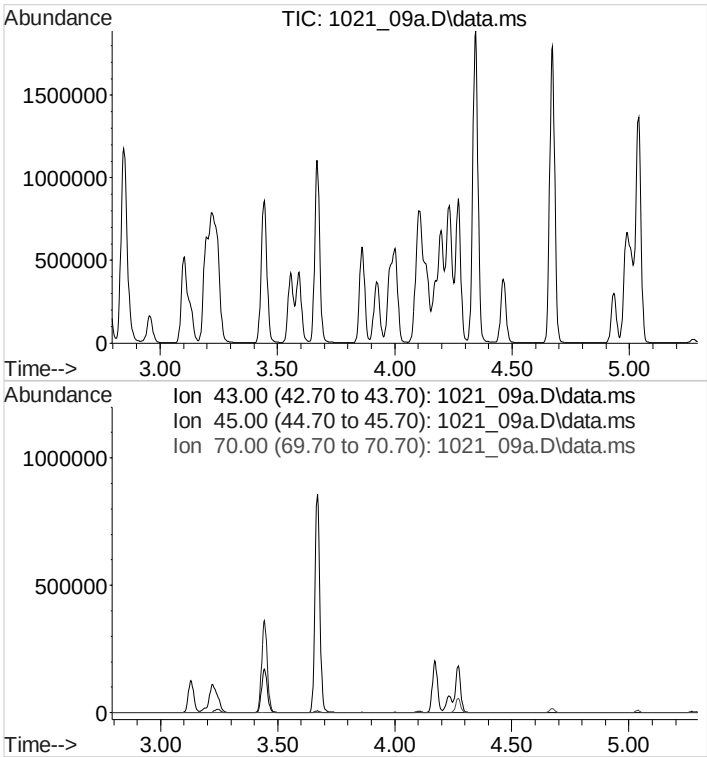


#106
PROPIONITRILE
Concen: N.D.
Expected RT: 4.36 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 54

Sig	Exp Ratio
54	100
51	80.5
55	37.6

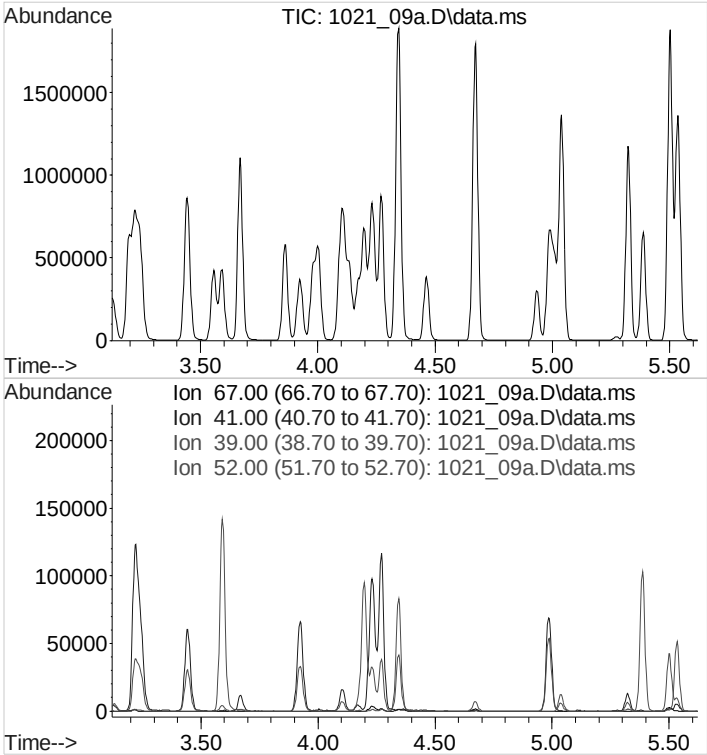


#107
Ethyl Acetate
Concen: N.D.
Expected RT: 4.04 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
45	14.8
70	12.8

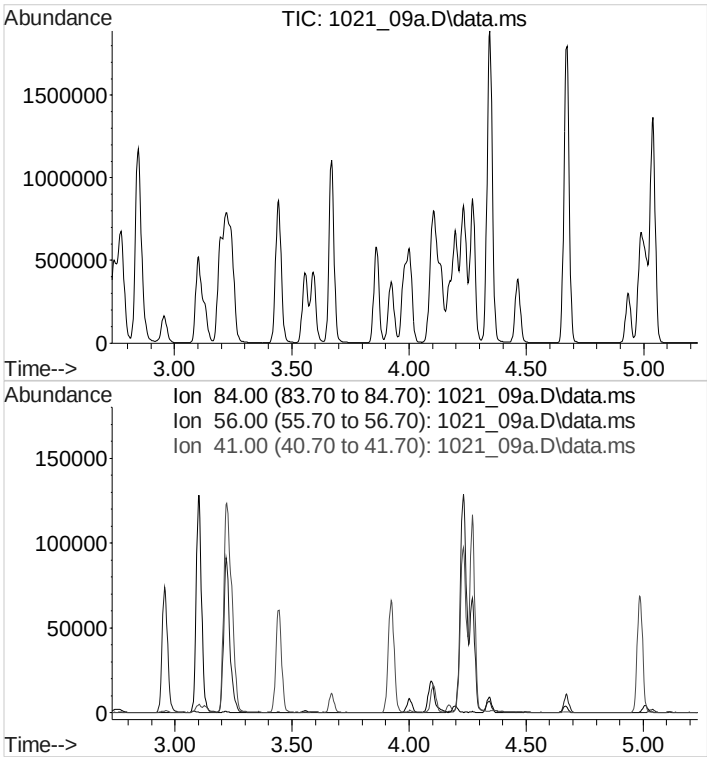


#108
METHACRYLONITRILE
Concen: N.D.
Expected RT: 4.37 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 67

Sig	Exp Ratio
67	100
41	149.0
39	79.7
52	44.4

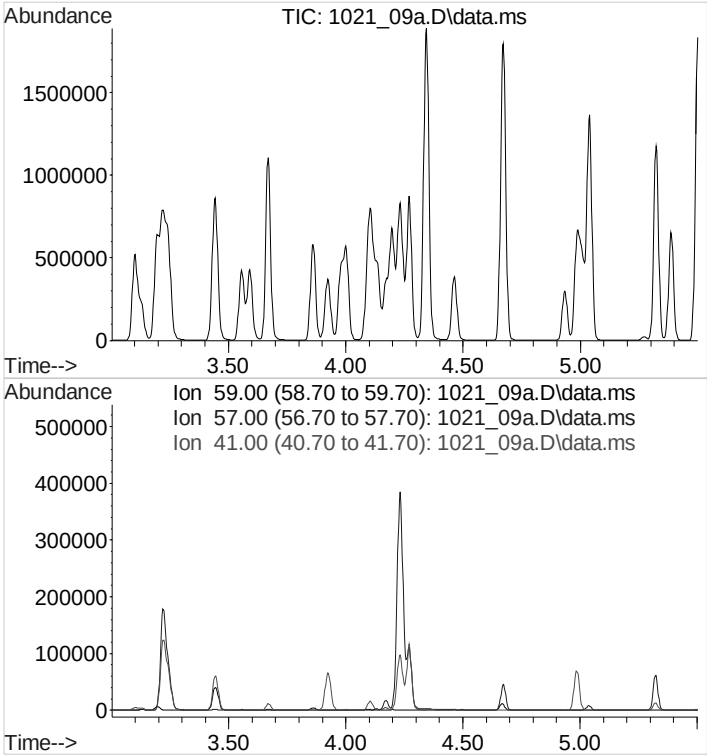


#109
Cyclohexane
Concen: N.D.
Expected RT: 3.98 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 84

Sig	Exp Ratio
84	100
56	105.5
41	58.8

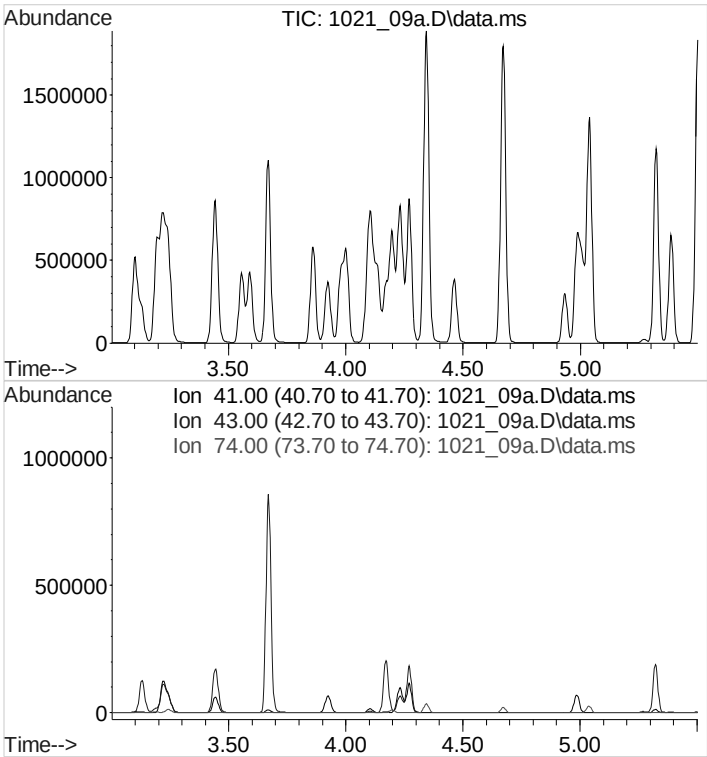


#110
tert-butyl formate
Concen: N.D.
Expected RT: 4.25 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 59

Sig	Exp Ratio
59	100
57	80.4
41	82.0

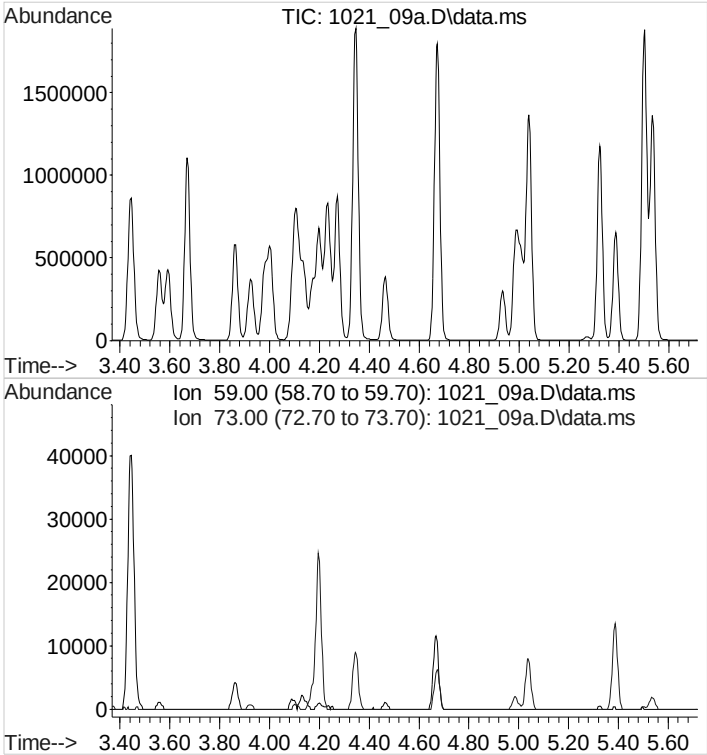


#111
ISOBUTANOL
Concen: N.D.
Expected RT: 4.25 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
43	21.4
74	0.0

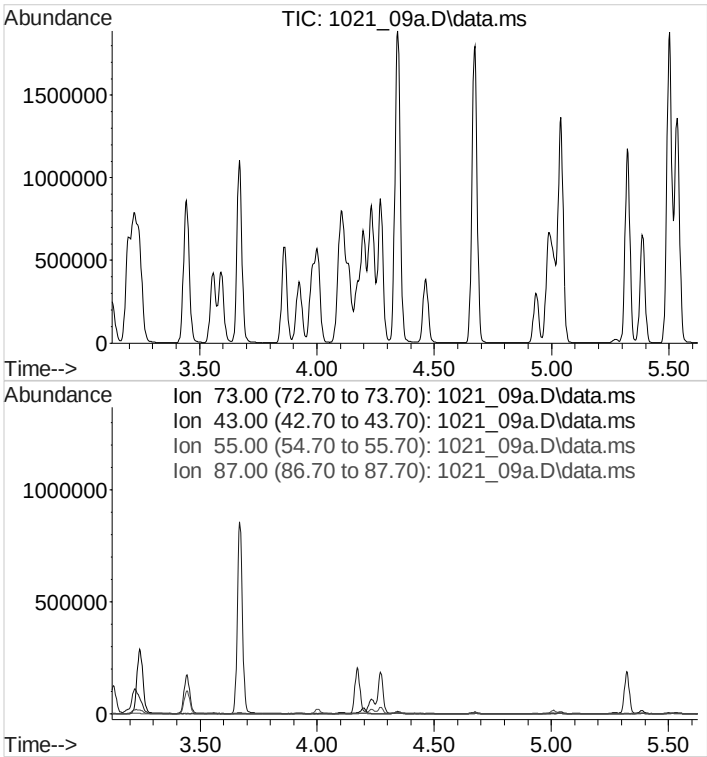


#112
t-Amyl Alcohol
Concen: N.D.
Expected RT: 4.47 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 59

Sig	Exp Ratio
59	100
73	67.3

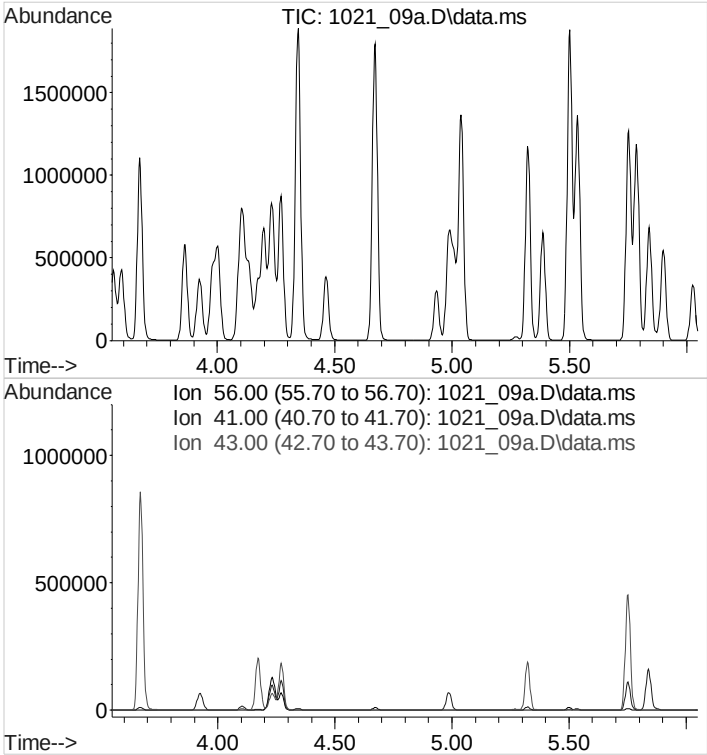


#113
TERT-AMYL METHYL ETHER
Concen: N.D.
Expected RT: 4.37 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
43	0.0
55	84.4
87	30.1

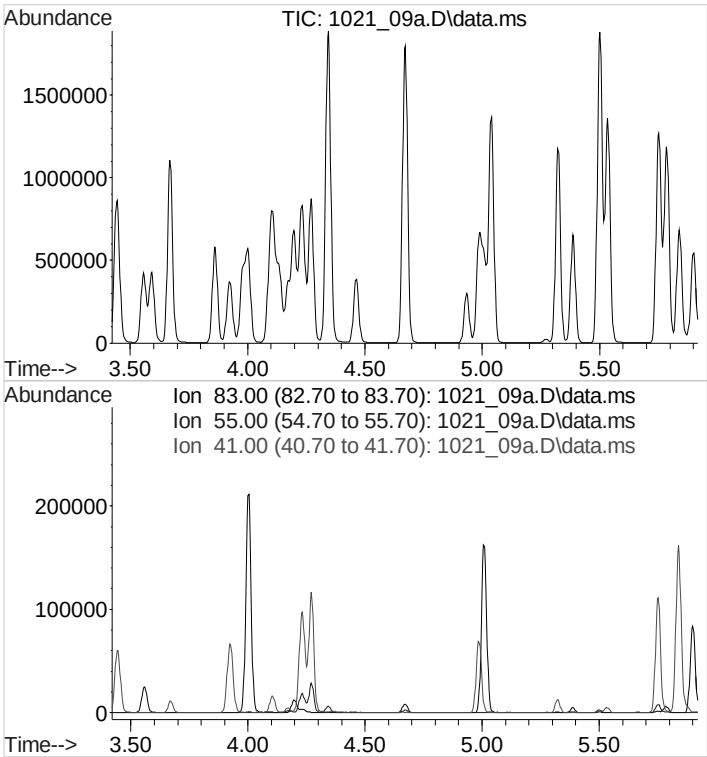


#115
N-BUTANOL
Concen: N.D.
Expected RT: 4.80 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 56

Sig	Exp Ratio
56	100
41	67.4
43	52.1

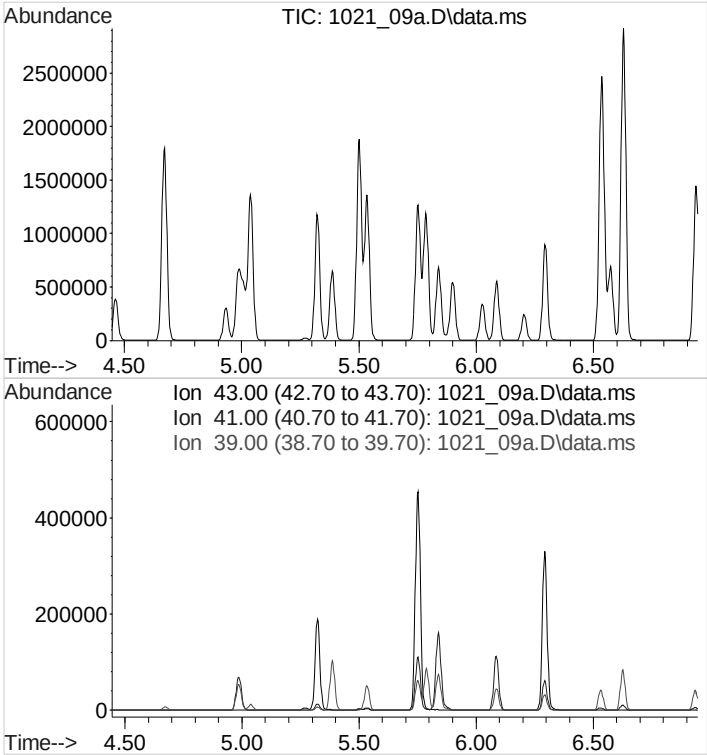


#116
Methyl Cyclohexane
Concen: N.D.
Expected RT: 4.67 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
55	68.2
41	34.6

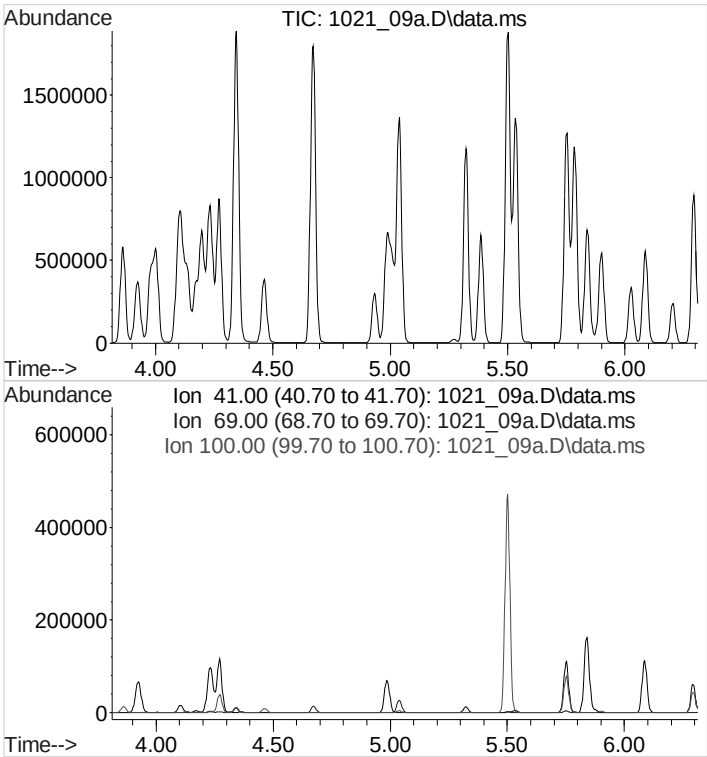


#117
2-nitropropane
Concen: N.D.
Expected RT: 5.69 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
41	90.5
39	34.3

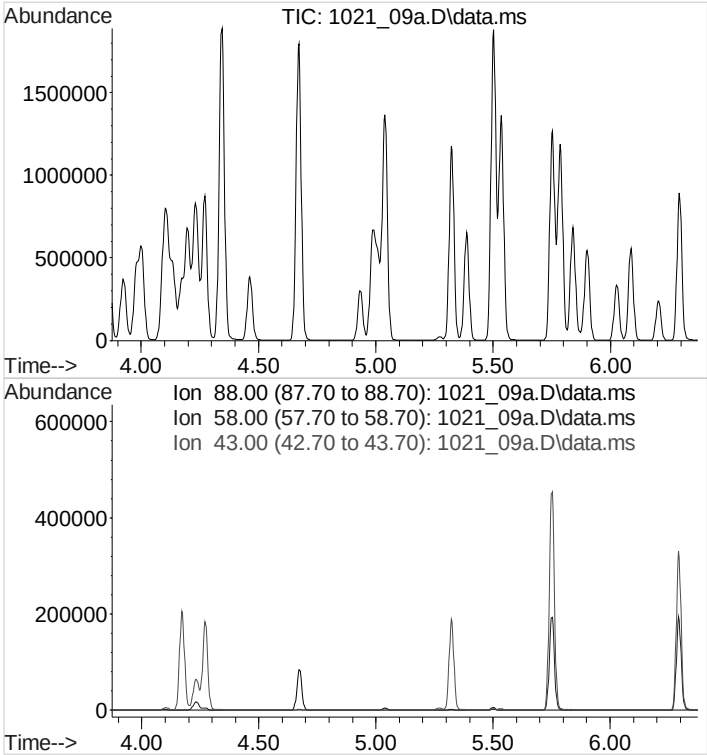


#118
METHYL METHACRYLATE
Concen: N.D.
Expected RT: 5.06 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
69	114.4
100	38.4

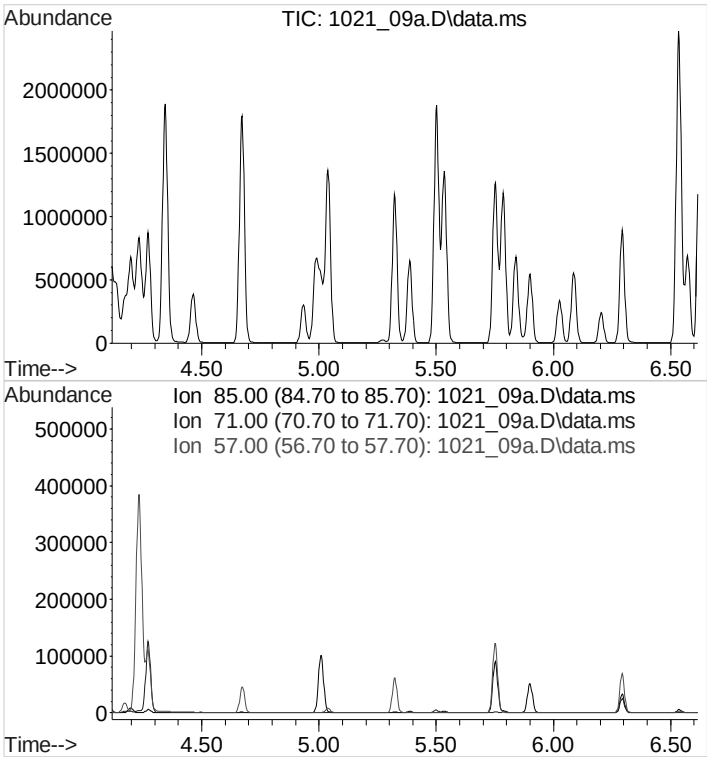


#119
1,4-DIOXANE
Concen: N.D.
Expected RT: 5.12 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 88

Sig	Exp Ratio
88	100
58	62.8
43	28.0

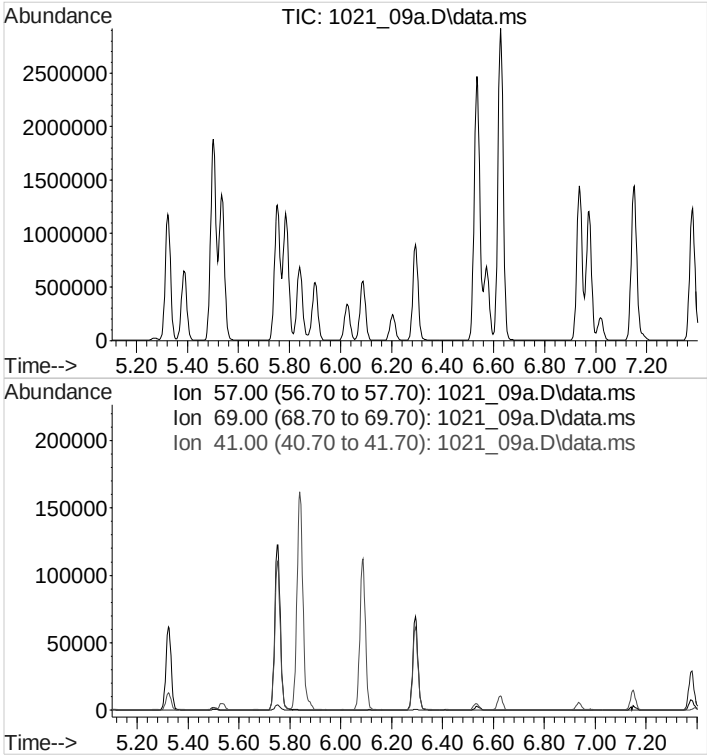


#120
n-octane
Concen: N.D.
Expected RT: 5.37 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 85

Sig	Exp Ratio
85	100
71	62.4
57	81.3

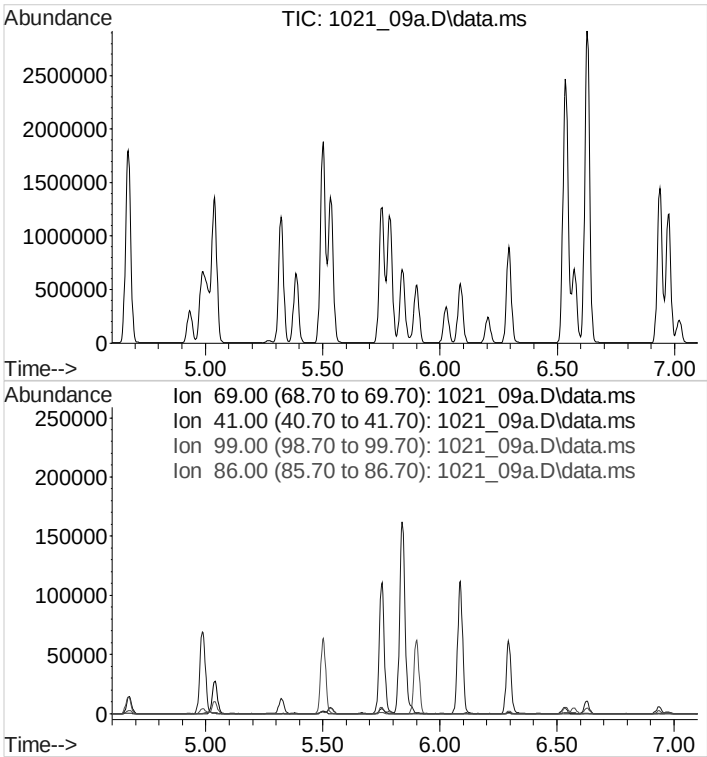


#121
3,3-DIMETHYL-1-BUTANOL
Concen: N.D.
Expected RT: 6.25 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 57

Sig	Exp Ratio
57	100
69	69.1
41	78.6

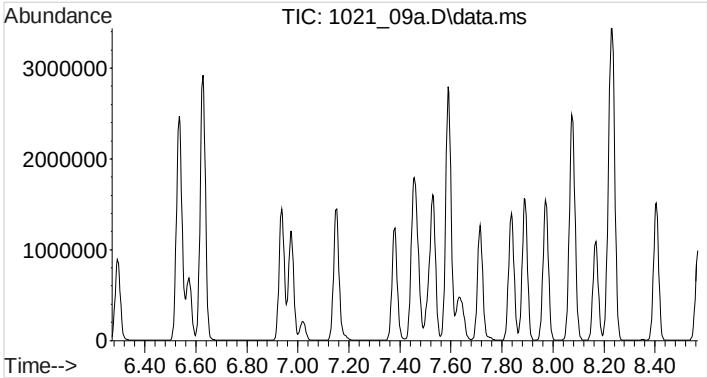


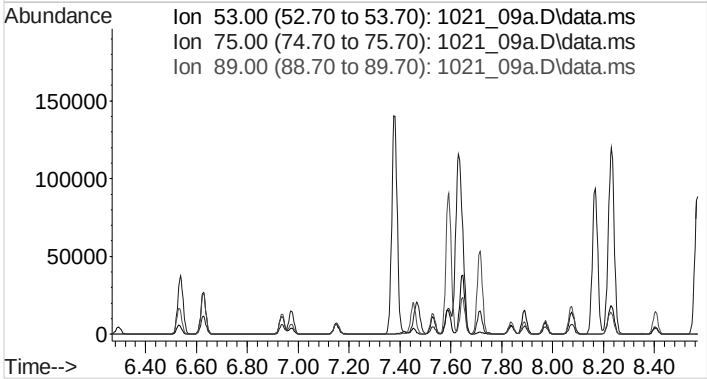
#123
ETHYL METHACRYLATE
Concen: N.D.
Expected RT: 5.85 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 69

Sig	Exp Ratio
69	100
41	190.7
99	19.0
86	15.1



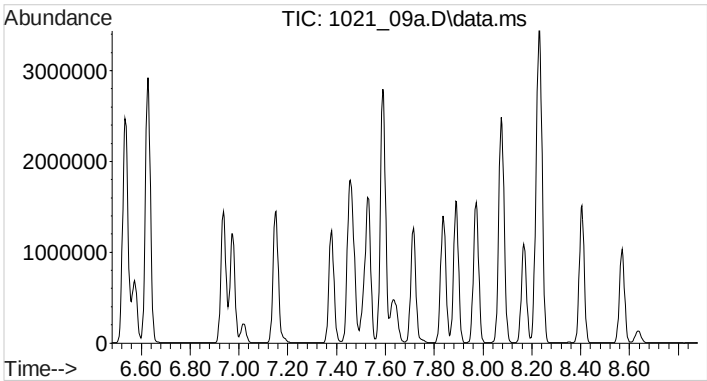


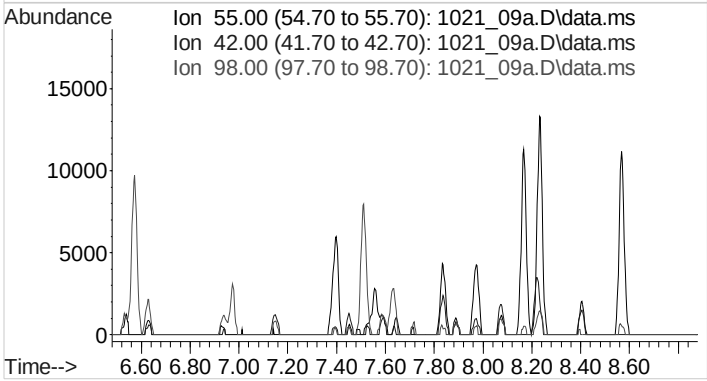
#124
CIS-1,4-DICHLORO-2-BUTENE
Concen: N.D.
Expected RT: 7.42 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 53

Sig	Exp Ratio
53	100
75	91.0
89	44.7



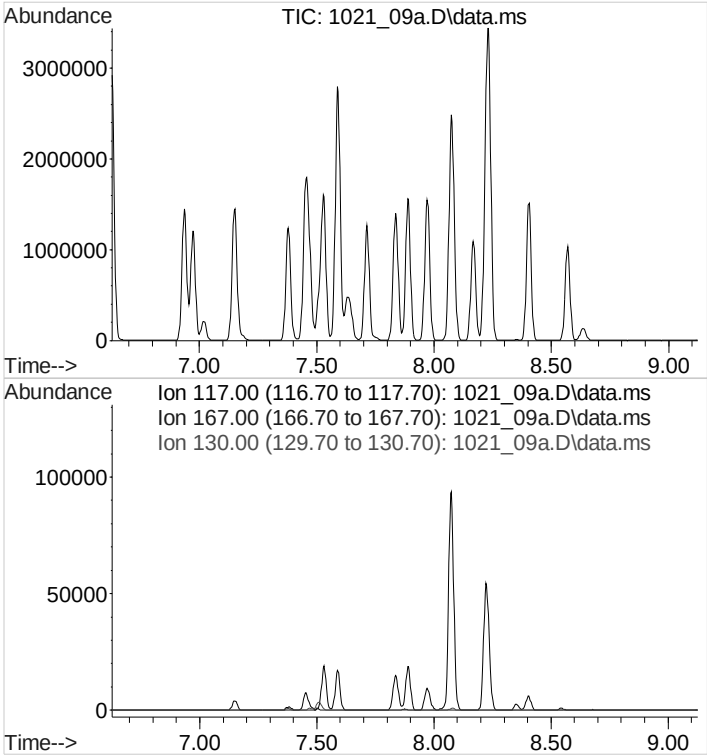


#125
Cyclohexanone
Concen: N.D.
Expected RT: 7.68 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 55

Sig	Exp Ratio
55	100
42	69.0
98	47.4

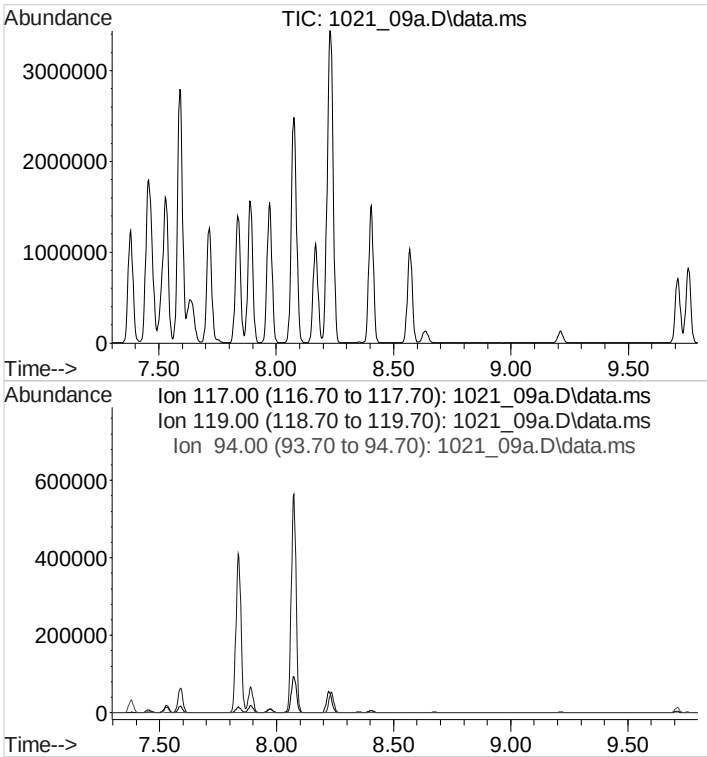


#126
PENTACHLOROETHANE
Concen: N.D.
Expected RT: 7.87 min

Lab File: 1021 09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
167	88.3
130	40.6



#127
Hexachloroethane
Concen: N.D.
Expected RT: 8.55 min

Lab File: 1021_09a.D
Acq: 21 Oct 2014 11:40 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
119	91.1
94	39.7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 10a.D
Acq On : 21 Oct 2014 11:58 pm
Operator : 644
Sample : STD VMS 40 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:33:09 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	4.341	168	381162	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.672	114	730276	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.840	79	121141	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.222	152	323635	40.0000000	ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.34
114)	AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.68
122)	AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.84
128)	AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.22
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	4.110	111	248593	46.1392336	ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 115.35%				
46)	a,a,a-Trifluorotoluene	5.039	146	447593	45.9001068	ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 114.75%#				
50)	TOLUENE-D8	5.502	98	1061989	45.8410485	ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 114.60%#				
68)	4-BROMOFLUOROBENZENE	7.380	95	415745	46.2681024	ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 115.67%				
Target Compounds								Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC	11588546m	74.2014803	ppm		
3)	PROPENE	1.673	41	31184	39.8644634	ppb		95
4)	DICHLORODIFLUOROMETHANE	1.724	85	255183	40.9262305	ppb		96
5)	CHLOROMETHANE	1.882	50	350690	41.0430598	ppb		99
6)	VINYL CHLORIDE	1.959	62	372314	40.0711902	ppb		99
7)	1,3-BUTADIENE	1.968	39	219220	40.3028864	ppb		97
8)	BROMOMETHANE	2.213	94	118478	36.6812293	ppb		99
9)	CHLOROETHANE	2.309	66	69179	40.6458577	ppb		98
10)	TRICHLOROFLUOROMETHANE	2.406	101	285974	40.0048871	ppb		100
11)	DICHLOROFLUOROMETHANE	2.441	67	485061	40.5096649	ppb		99
12)	ETHYL ETHER	2.595	59	264694	39.3257959	ppb		100
13)	ACROLEIN	2.959	56	193386	201.9762419	ppb		98
14)	1,1-DICHLOROETHENE	2.743	61	416218	39.7472279	ppb		99
15)	1,1,2-TRICHLOROTRIFLUO...	2.763	101	201555	40.1742070	ppb		99
16)	ACETONE	3.129	43	325028	199.5569026	ppb		99
17)	IODOMETHANE	2.846	142	2058005	200.0482963	ppb		100
18)	CARBON DISULFIDE	2.775	76	927520	40.7097029	ppb		99
19)	METHYLENE CHLORIDE	3.103	84	329121	40.5094116	ppb		99
20)	ACRYLONITRILE	3.592	53	432620	200.9800248	ppb		100
21)	n-Hexane	3.222	56	261430	39.8171261	ppb		97
22)	TRANS-1,2-DICHLOROETHENE	3.197	96	297521	40.1842458	ppb		100
23)	METHYL TERT-BUTYL ETHER	3.245	73	830633	40.8326439	ppb	#	100
24)	1,1-DICHLOROETHANE	3.557	63	541184	40.4392356	ppb		99
25)	VINYL ACETATE	3.669	43	2050511	205.2645097	ppb		99
26)	DI-ISOPROPYL ETHER	3.444	45	965494	40.0779386	ppb		99
27)	2,2-Dichloropropane	3.923	77	322252	41.4503845	ppb		99
28)	CIS-1,2-DICHLOROETHENE	3.862	96	335171	40.8658729	ppb		98
29)	2-BUTANONE (MEK)	4.171	72	158066	200.8498220	ppb		100
30)	BROMOCHLOROMETHANE	3.981	130	179553	39.3648623	ppb		97
31)	TETRAHYDROFURAN	4.103	42	67281	40.3021850	ppb		94
32)	CHLOROFORM	4.004	83	523761	40.1021797	ppb		100
34)	1,1,1-TRICHLOROETHANE	4.135	97	388497	40.6412969	ppb		99
35)	CARBON TETRACHLORIDE	4.097	117	323594	40.7016721	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 10a.D
Acq On : 21 Oct 2014 11:58 pm
Operator : 644
Sample : STD VMS 40 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:33:09 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.197	75	399314	39.3150615 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.232	57	1157742	42.5508697 ppb		99
38)	HEPTANE	4.271	43	442665	41.2183326 ppb	#	98
39)	BENZENE	4.344	78	1251255	39.5826714 ppb		100
40)	1,2-DICHLOROETHANE	4.463	62	398852	39.1797598 ppb		100
42)	TRICHLOROETHENE	4.669	130	272049	38.7635528 ppb		98
43)	1,2-DICHLOROPROPANE	4.987	62	218960	40.0744864 ppb		98
44)	DIBROMOMETHANE	4.933	93	160274	39.7397351 ppb		99
45)	BROMODICHLOROMETHANE	5.010	83	400240	40.0701063 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.322	63	682949	202.9672790 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.386	75	500461	40.3746614 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.753	58	467067	201.8676352 ppb		100
51)	TOLUENE	5.534	91	1298749	39.4699667 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.788	110	104917	41.4617004 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.901	97	234928	38.1355125 ppb		99
55)	TETRACHLOROETHENE	5.785	164	179527	38.5894383 ppb		99
56)	1,3-Dichloropropane	6.087	76	436469	38.2101048 ppb		98
57)	2-HEXANONE	6.293	58	449943	197.6412092 ppb		98
58)	CHLORODIBROMOMETHANE	6.026	129	241282	39.2833729 ppb		99
59)	1,2-DIBROMOETHANE	6.203	107	226053	38.3660794 ppb		99
60)	CHLOROBENZENE	6.537	112	811933	38.3953543 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.573	133	249059	39.1337335 ppb		98
62)	ETHYLBENZENE	6.534	106	451633	38.5648093 ppb		98
63)	M&P-XYLENE	6.627	106	1134487	77.5257217 ppb		99
64)	O-XYLENE	6.936	106	559616	39.1350474 ppb		99
65)	STYRENE	6.975	104	887970	41.6399326 ppb		99
66)	Bromoform	7.020	173	128598	38.8002816 ppb		99
67)	Isopropylbenzene	7.151	105	1421966	39.4892300 ppb		100
69)	Bromobenzene	7.466	77	670945	39.3134130 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.512	83	303512	39.3578939 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.630	110	87559	38.4070827 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.647	53	88835	40.2415722 ppb		98
73)	n-Propylbenzene	7.454	91	1728585	39.3559072 ppb		99
74)	4-ETHYLTOLUENE	7.531	105	1430279	38.9391339 ppb		99
75)	2-Chlorotoluene	7.592	126	322842	38.4803006 ppb		97
76)	4-Chlorotoluene	7.714	91	1098929	39.2506908 ppb		99
77)	1,3,5-Trimethylbenzene	7.589	105	1230444	39.3842042 ppb		99
78)	tert-Butylbenzene	7.836	119	989505	39.1024662 ppb		100
79)	1,2,4-Trimethylbenzene	7.891	105	1251567	38.7529831 ppb		100
80)	sec-Butylbenzene	7.971	105	1594598	39.2603885 ppb		99
81)	1,3-DICHLOROBENZENE	8.167	146	592459	37.9473551 ppb		99
82)	p-Isopropyltoluene	8.074	119	1275938	39.2515277 ppb		100
83)	DICYCLOPENTADIENE	8.081	66	1472811	40.4160778 ppb		100
85)	1,4-DICHLOROBENZENE	8.235	146	592352	38.5644256 ppb	#	72
86)	1,2,3-TRIMETHYLBENZENE	8.235	105	1298200	39.0060750 ppb		100
87)	1,2-DICHLOROBENZENE	8.569	146	562370	38.3167516 ppb		100
88)	n-Butylbenzene	8.405	91	1248982	39.4890499 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.212	157	47742	39.3880195 ppb		99
90)	1,2,4-Trichlorobenzene	9.756	180	333705	38.3600562 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.711	225	171221	38.4791675 ppb		99
92)	Naphthalene	10.032	128	869220	39.6546318 ppb		100
93)	1,2,3-Trichlorobenzene	10.187	180	307187	38.7499092 ppb		99
94)	1-Methylnaphthalene	10.900	142	484071	41.5865697 ppb		98
95)	2-Methylnaphthalene	11.036	142	423565	41.0506391 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 10a.D
Acq On : 21 Oct 2014 11:58 pm
Operator : 644
Sample : STD VMS 40 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:33:09 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

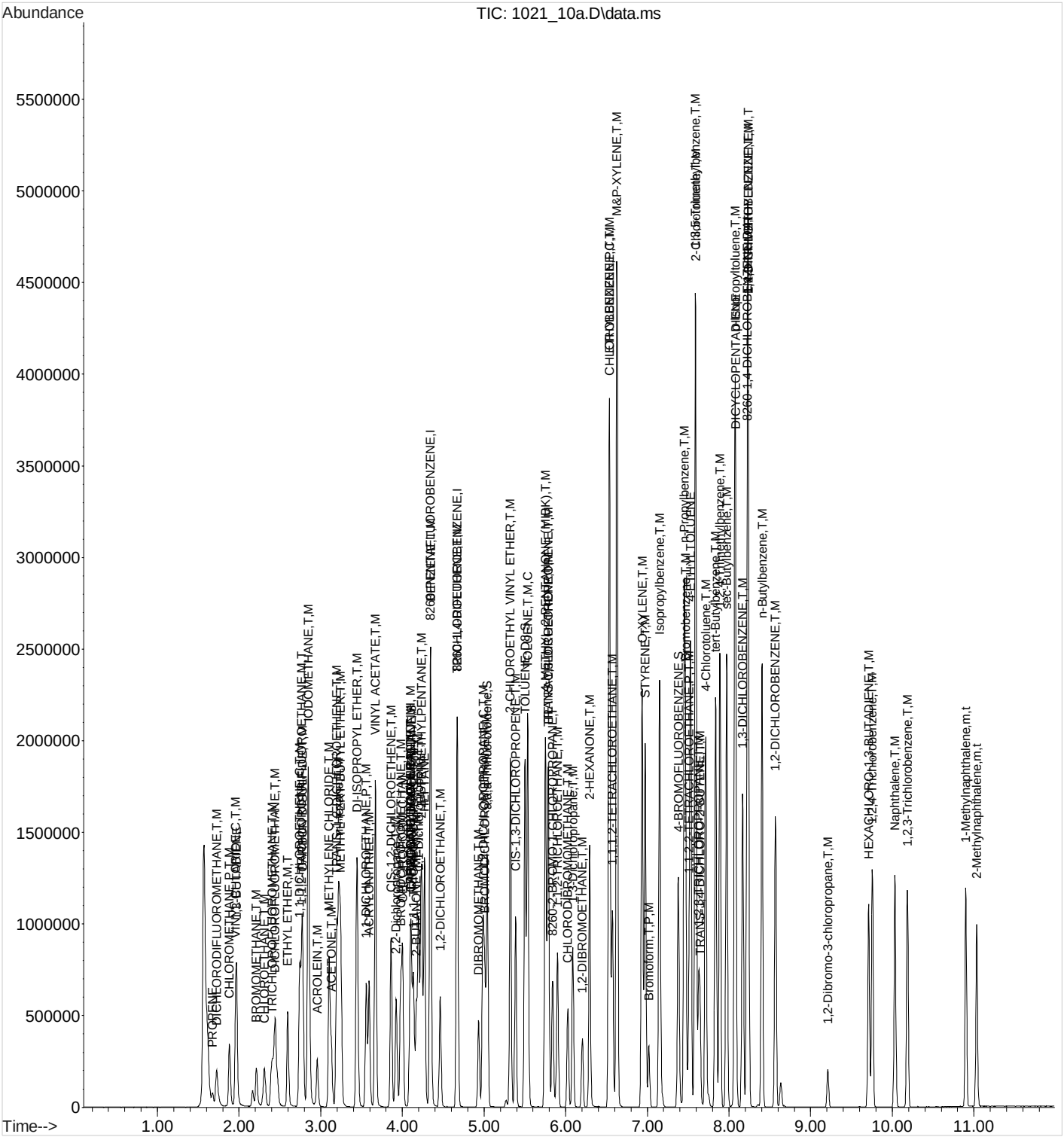
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 10a.D
Acq On : 21 Oct 2014 11:58 pm
Operator : 644
Sample : STD VMS 40 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:33:09 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 11a.D
Acq On : 22 Oct 2014 12:17 am
Operator : 644
Sample : STD VMS 75 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:34:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	4.344	168	386214	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.672	114	735001	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.839	79	119927	40.0000000	ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	8.222	152	312432	40.0000000	ppb	#	0.00
96)	AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.34
114)	AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.68
122)	AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.84
128)	AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.22
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	4.110	111	257143	47.1018290	ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 117.75%				
46)	a,a,a-Trifluorotoluene	5.039	146	452452	46.1001162	ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 115.25%#				
50)	TOLUENE-D8	5.502	98	1099238	47.1438836	ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 117.86%#				
68)	4-BROMOFLUOROBENZENE	7.380	95	430898	48.4399088	ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 121.10%				
Target Compounds								Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC	37332401m	235.9125912	ppm		
3)	PROPENE	1.676	41	55229	69.6791534	ppb		97
4)	DICHLORODIFLUOROMETHANE	1.727	85	457930	72.4820867	ppb		95
5)	CHLOROMETHANE	1.885	50	626770	72.3945935	ppb		100
6)	VINYL CHLORIDE	1.962	62	659368	70.0377726	ppb		100
7)	1,3-BUTADIENE	1.971	39	392966	71.3004938	ppb		97
8)	BROMOMETHANE	2.213	94	178173	54.4414450	ppb		97
9)	CHLOROETHANE	2.312	66	116638	67.6337802	ppb		98
10)	TRICHLOROFLUOROMETHANE	2.405	101	496340	68.5247343	ppb		100
11)	DICHLOROFLUOROMETHANE	2.444	67	861620	71.0165628	ppb		99
12)	ETHYL ETHER	2.595	59	471941	69.1994619	ppb		99
13)	ACROLEIN	2.958	56	345646	356.2774838	ppb		99
14)	1,1-DICHLOROETHENE	2.743	61	757060	71.3506398	ppb		99
15)	1,1,2-TRICHLOROTRIFLUO...	2.766	101	364056	71.6149205	ppb		100
16)	ACETONE	3.132	43	582908	353.2055988	ppb		99
17)	IODOMETHANE	2.846	142	3578337	343.2821764	ppb		99
18)	CARBON DISULFIDE	2.778	76	1654220	71.6554952	ppb		98
19)	METHYLENE CHLORIDE	3.103	84	578702	70.2970190	ppb		99
20)	ACRYLONITRILE	3.592	53	781625	358.3656117	ppb		100
21)	n-Hexane	3.222	56	472973	71.0939136	ppb		97
22)	TRANS-1,2-DICHLOROETHENE	3.196	96	533369	71.0963904	ppb		99
23)	METHYL TERT-BUTYL ETHER	3.245	73	1476076	71.6124650	ppb	#	100
24)	1,1-DICHLOROETHANE	3.557	63	980572	72.3134467	ppb		99
25)	VINYL ACETATE	3.669	43	3837712	379.1453442	ppb		99
26)	DI-ISOPROPYL ETHER	3.444	45	1783033	73.0460543	ppb		99
27)	2,2-Dichloropropane	3.923	77	537603	68.2458442	ppb		100
28)	CIS-1,2-DICHLOROETHENE	3.862	96	596475	71.7741693	ppb		99
29)	2-BUTANONE (MEK)	4.174	72	282111	353.7810714	ppb		99
30)	BROMOCHLOROMETHANE	3.981	130	317415	68.6791801	ppb		94
31)	TETRAHYDROFURAN	4.103	42	122038	72.1460935	ppb		90
32)	CHLOROFORM	4.003	83	948767	71.6928717	ppb		100
34)	1,1,1-TRICHLOROETHANE	4.135	97	692387	71.4842521	ppb		99
35)	CARBON TETRACHLORIDE	4.097	117	583425	72.4233168	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 11a.D
Acq On : 22 Oct 2014 12:17 am
Operator : 644
Sample : STD VMS 75 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:34:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.196	75	735039	71.4227206 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	2054424	74.5192229 ppb		97
38) HEPTANE	4.270	43	810857	74.5145511 ppb	#	98
39) BENZENE	4.344	78	2293886	71.6164337 ppb		100
40) 1,2-DICHLOROETHANE	4.463	62	719170	69.7209252 ppb		99
42) TRICHLOROETHENE	4.669	130	490738	69.4744676 ppb		99
43) 1,2-DICHLOROPROPANE	4.987	62	404227	73.5068136 ppb		99
44) DIBROMOMETHANE	4.933	93	286208	70.5087084 ppb		100
45) BROMODICHLOROMETHANE	5.010	83	735976	73.2087102 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	1283015	378.8511309 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	938064	75.1917549 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.753	58	863785	370.9302632 ppb		99
51) TOLUENE	5.534	91	2382531	71.9414509 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	189075	74.2393998 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.900	97	426609	69.9518175 ppb		98
55) TETRACHLOROETHENE	5.782	164	327584	71.1271734 ppb		99
56) 1,3-Dichloropropane	6.087	76	809326	71.5685968 ppb		98
57) 2-HEXANONE	6.293	58	828326	367.5322731 ppb		99
58) CHLORODIBROMOMETHANE	6.026	129	442657	72.7989920 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	414898	71.1299775 ppb		100
60) CHLOROBENZENE	6.537	112	1475906	70.5003656 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.572	133	454947	72.2077866 ppb		99
62) ETHYLBENZENE	6.534	106	836709	72.1695746 ppb		98
63) M&P-XYLENE	6.627	106	2058988	142.1262490 ppb		98
64) O-XYLENE	6.936	106	1018565	71.9513049 ppb		98
65) STYRENE	6.974	104	1663672	78.8049714 ppb		99
66) Bromoform	7.019	173	235994	71.9243274 ppb		99
67) Isopropylbenzene	7.151	105	2597579	72.8672539 ppb		100
69) Bromobenzene	7.466	77	1233202	72.9898100 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	548381	71.8311085 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.630	110	162210	71.8724312 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.646	53	163706	74.9082438 ppb		96
73) n-Propylbenzene	7.453	91	3181252	73.1629899 ppb		99
74) 4-ETHYLTOLUENE	7.531	105	2608320	71.7299589 ppb		100
75) 2-Chlorotoluene	7.592	126	585809	70.5307742 ppb		97
76) 4-Chlorotoluene	7.714	91	2005324	72.3496454 ppb		99
77) 1,3,5-Trimethylbenzene	7.588	105	2240044	72.4254088 ppb		99
78) tert-Butylbenzene	7.836	119	1808813	72.2027952 ppb		99
79) 1,2,4-Trimethylbenzene	7.891	105	2276822	71.2121830 ppb		100
80) sec-Butylbenzene	7.971	105	2891515	71.9122722 ppb		99
81) 1,3-DICHLOROBENZENE	8.167	146	1075231	69.5663426 ppb		99
82) p-Isopropyltoluene	8.074	119	2315424	71.9501507 ppb		99
83) DICYCLOPENTADIENE	8.080	66	2787435	77.2655819 ppb		99
85) 1,4-DICHLOROBENZENE	8.235	146	1059131	71.4260547 ppb	#	50
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	2386721	74.2834858 ppb		99
87) 1,2-DICHLOROBENZENE	8.569	146	1018259	71.8662147 ppb		98
88) n-Butylbenzene	8.405	91	2290539	75.0167371 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.212	157	87571	74.8382837 ppb		98
90) 1,2,4-Trichlorobenzene	9.756	180	601616	71.6367497 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	302855	70.5023121 ppb		97
92) Naphthalene	10.032	128	1594726	75.3616259 ppb		100
93) 1,2,3-Trichlorobenzene	10.186	180	556603	72.7299640 ppb		99
94) 1-Methylnaphthalene	10.900	142	913164	81.2629884 ppb		99
95) 2-Methylnaphthalene	11.035	142	777429	78.0477824 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 11a.D
Acq On : 22 Oct 2014 12:17 am
Operator : 644
Sample : STD VMS 75 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:34:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

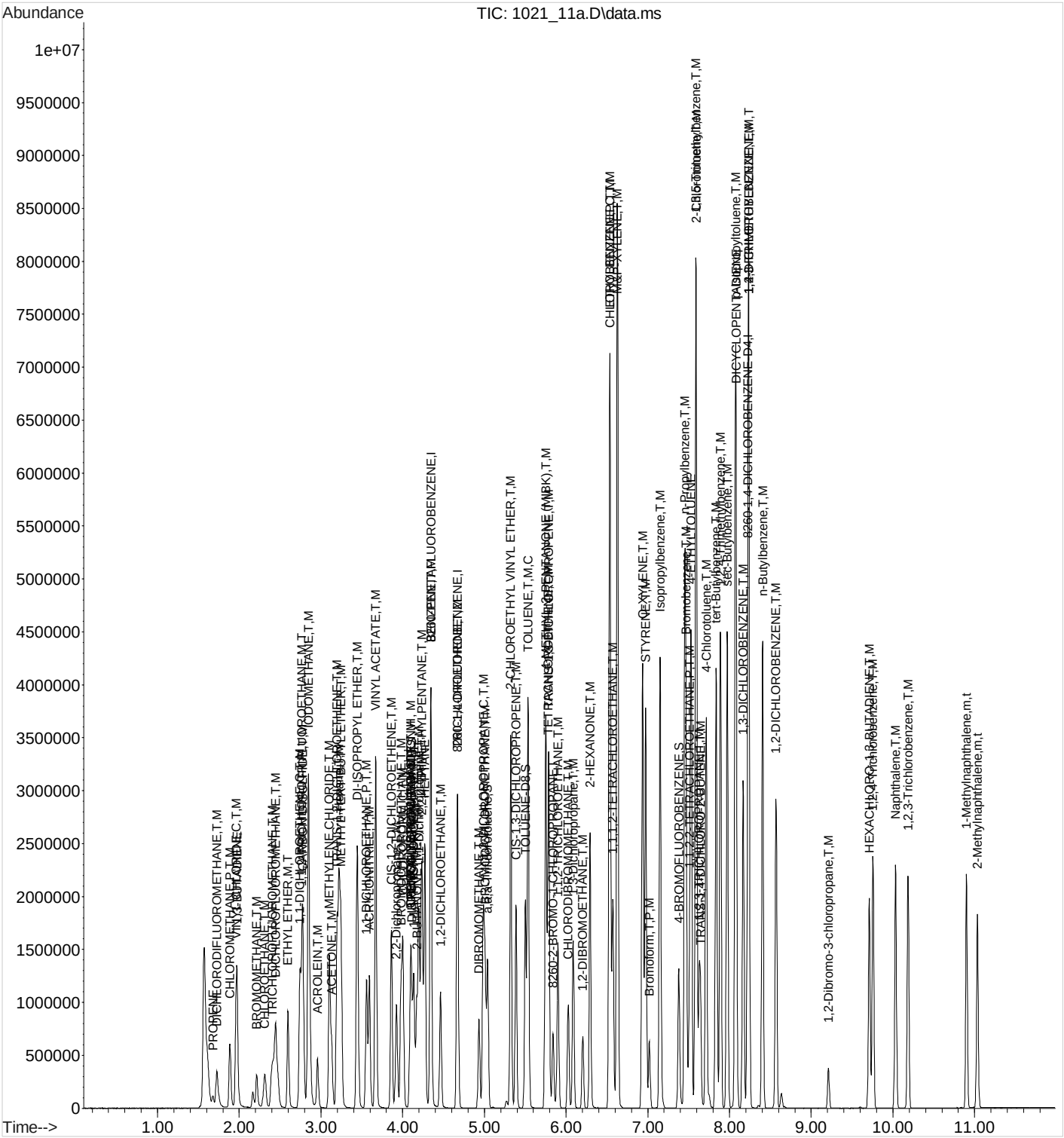
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	d
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 11a.D
Acq On : 22 Oct 2014 12:17 am
Operator : 644
Sample : STD VMS 75 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:34:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 12a.D
Acq On : 22 Oct 2014 12:35 am
Operator : 644
Sample : STD VMS 100 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:36:07 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:34:49 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
	Internal Standards					
1)	8260-PENTAFLUOROBENZENE	4.341	168	386764	40.0000000 ppb	0.00
41)	8260-1,4-DIFLUOROBENZENE	4.672	114	750183	40.0000000 ppb	0.00
53)	8260-2-BROMO-1-CHLOROP...	5.839	79	126544	40.0000000 ppb	0.00
84)	8260-1,4-DICHLOROBENZE...	8.222	152	316139	40.0000000 ppb	# 0.00
96)	AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114)	AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122)	AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128)	AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
	System Monitoring Compounds					
33)	DIBROMOFLUOROMETHANE	4.110	111	269373	50.8005059 ppb	0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 127.00%#		
46)	a,a,a-Trifluorotoluene	5.039	146	473344	46.2647858 ppb	0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 115.66%#		
50)	TOLUENE-D8	5.502	98	1145173	47.9638000 ppb	0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 119.91%#		
68)	4-BROMOFLUOROBENZENE	7.380	95	445775	47.4998358 ppb	0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 118.75%		
	Target Compounds					Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC	58118125m	Below Cal	
3)	PROPENE	1.676	41	74543	76.9650297 ppb	95
4)	DICHLORODIFLUOROMETHANE	1.724	85	612607	102.0708485 ppb	99
5)	CHLOROMETHANE	1.881	50	877275	108.2387585 ppb	99
6)	VINYL CHLORIDE	1.962	62	912823	103.4911957 ppb	100
7)	1,3-BUTADIENE	1.968	39	555171	102.5958798 ppb	99
8)	BROMOMETHANE	2.209	94	240209	60.3726998 ppb	100
9)	CHLOROETHANE	2.309	66	153445	85.6139383 ppb	99
10)	TRICHLOROFLUOROMETHANE	2.405	101	683665	97.9740343 ppb	99
11)	DICHLOROFLUOROMETHANE	2.441	67	1189520	101.4920779 ppb	100
12)	ETHYL ETHER	2.595	59	640739	82.2312426 ppb	99
13)	ACROLEIN	2.958	56	478206	572.6523470 ppb	99
14)	1,1-DICHLOROETHENE	2.740	61	1015250	102.1695182 ppb	100
15)	1,1,2-TRICHLOROTRIFLUO...	2.762	101	490132	101.9883971 ppb	100
16)	ACETONE	3.129	43	788934	284.9782950 ppb	100
17)	IODOMETHANE	2.846	142	4837315	482.4508248 ppb	98
18)	CARBON DISULFIDE	2.775	76	2254627	97.5070995 ppb	99
19)	METHYLENE CHLORIDE	3.103	84	799560	59.4440046 ppb	99
20)	ACRYLONITRILE	3.592	53	1077273	577.1928645 ppb	99
21)	n-Hexane	3.219	56	654576	86.8252247 ppb	96
22)	TRANS-1,2-DICHLOROETHENE	3.196	96	737533	108.1484989 ppb	99
23)	METHYL TERT-BUTYL ETHER	3.241	73	2012373	107.4563247 ppb #	100
24)	1,1-DICHLOROETHANE	3.557	63	1355320	106.2010605 ppb	100
25)	VINYL ACETATE	3.669	43	5173217	590.9962818 ppb	99
26)	DI-ISOPROPYL ETHER	3.444	45	2492159	115.3934253 ppb	99
27)	2,2-Dichloropropane	3.923	77	781384	101.2228011 ppb	100
28)	CIS-1,2-DICHLOROETHENE	3.862	96	826921	107.5489547 ppb	99
29)	2-BUTANONE (MEK)	4.171	72	390004	557.3971670 ppb	100
30)	BROMOCHLOROMETHANE	3.978	130	440496	104.7871769 ppb	95
31)	TETRAHYDROFURAN	4.103	42	165667	76.4181969 ppb	91
32)	CHLOROFORM	4.003	83	1299017	104.7419273 ppb	99
34)	1,1,1-TRICHLOROETHANE	4.135	97	985868	108.8051433 ppb	98
35)	CARBON TETRACHLORIDE	4.093	117	790302	105.9179699 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 12a.D
Acq On : 22 Oct 2014 12:35 am
Operator : 644
Sample : STD VMS 100 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:36:07 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:34:49 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.196	75	1015815	109.9688484 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	2861090	106.6748884 ppb		97
38) HEPTANE	4.270	43	1154415	118.3883928 ppb	#	96
39) BENZENE	4.344	78	3194217	104.8557286 ppb		99
40) 1,2-DICHLOROETHANE	4.463	62	976746	101.6815160 ppb		99
42) TRICHLOROETHENE	4.669	130	676927	86.0569963 ppb		98
43) 1,2-DICHLOROPROPANE	4.987	62	568325	108.1280766 ppb		99
44) DIBROMOMETHANE	4.933	93	393892	99.0243020 ppb		98
45) BROMODICHLOROMETHANE	5.010	83	1017654	102.3674498 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	1799205	653.6760599 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.386	75	1301604	115.2824909 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.753	58	1167646	579.8719026 ppb		99
51) TOLUENE	5.534	91	3332222	100.9373161 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	268217	114.6100031 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.901	97	587463	95.8961045 ppb		98
55) TETRACHLOROETHENE	5.785	164	446102	91.5453439 ppb		99
56) 1,3-Dichloropropane	6.087	76	1128683	97.4443402 ppb		99
57) 2-HEXANONE	6.293	58	1127459	588.1689962 ppb		98
58) CHLORODIBROMOMETHANE	6.026	129	613565	106.4807327 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	570391	100.1794340 ppb		99
60) CHLOROBENZENE	6.537	112	2032522	95.3677094 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.572	133	628042	99.1412175 ppb		100
62) ETHYLBENZENE	6.531	106	1158921	102.5899177 ppb		98
63) M&P-XYLENE	6.627	106	2845882	202.7309862 ppb		98
64) O-XYLENE	6.936	106	1400525	104.0016563 ppb		96
65) STYRENE	6.974	104	2279611	136.6798060 ppb		100
66) Bromoform	7.019	173	324174	102.9078093 ppb		99
67) Isopropylbenzene	7.151	105	3581808	107.6258351 ppb		99
69) Bromobenzene	7.466	77	1702248	99.5132738 ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	749809	100.3233812 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.630	110	214470	100.8118621 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.646	53	224636	119.3649387 ppb		97
73) n-Propylbenzene	7.453	91	4416291	100.9172300 ppb		98
74) 4-ETHYLTOLUENE	7.531	105	3608396	101.3351374 ppb		99
75) 2-Chlorotoluene	7.592	126	785436	93.5613686 ppb		93
76) 4-Chlorotoluene	7.714	91	2788869	103.1974095 ppb		99
77) 1,3,5-Trimethylbenzene	7.589	105	3072130	102.4256773 ppb		99
78) tert-Butylbenzene	7.836	119	2485457	104.7267500 ppb		99
79) 1,2,4-Trimethylbenzene	7.891	105	3147764	103.6211549 ppb		99
80) sec-Butylbenzene	7.971	105	3955563	105.6016212 ppb		99
81) 1,3-DICHLOROBENZENE	8.167	146	1472047	92.8627615 ppb		99
82) p-Isopropyltoluene	8.074	119	3138531	107.0490530 ppb		99
83) DICYCLOPENTADIENE	8.080	66	3851582	126.6003882 ppb		98
85) 1,4-DICHLOROBENZENE	8.235	146	1421322	94.6131065 ppb	#	44
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	3234155	108.0850418 ppb		99
87) 1,2-DICHLOROBENZENE	8.569	146	1377564	102.6965837 ppb		98
88) n-Butylbenzene	8.405	91	3118812	115.4850183 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.212	157	117057	116.5029069 ppb		98
90) 1,2,4-Trichlorobenzene	9.756	180	818761	108.5440200 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	413047	101.3454152 ppb		99
92) Naphthalene	10.032	128	2177192	117.6946564 ppb		100
93) 1,2,3-Trichlorobenzene	10.187	180	752623	105.2320474 ppb		99
94) 1-Methylnaphthalene	10.900	142	1259122	131.3903617 ppb		99
95) 2-Methylnaphthalene	11.035	142	1049974	125.5193753 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 12a.D
Acq On : 22 Oct 2014 12:35 am
Operator : 644
Sample : STD VMS 100 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:36:07 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:34:49 2014
Response via : Initial Calibration

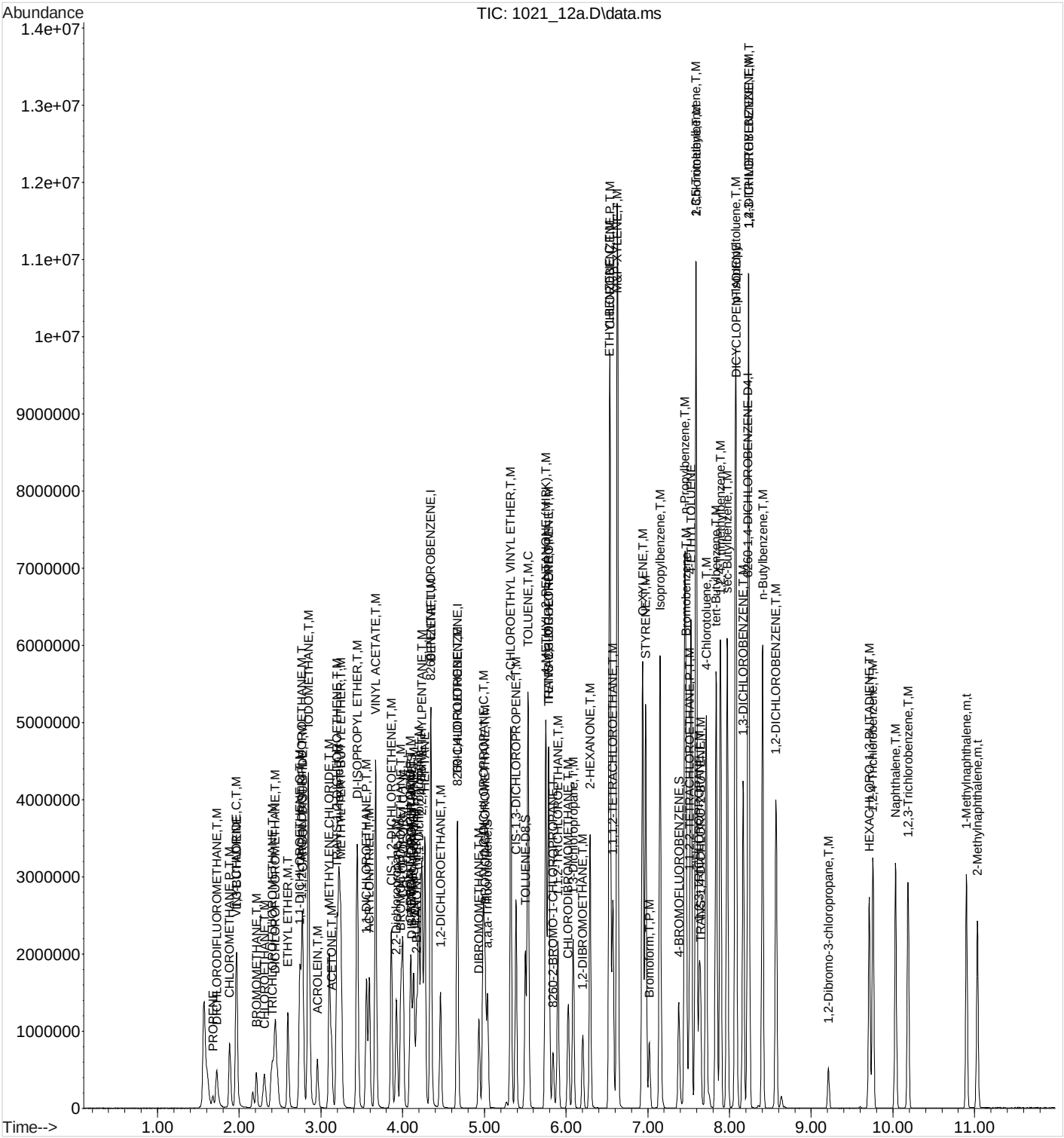
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	d
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	d
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 12a.D
Acq On : 22 Oct 2014 12:35 am
Operator : 644
Sample : STD VMS 100 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:36:07 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:34:49 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 13a.D
Acq On : 22 Oct 2014 12:53 am
Operator : 644
Sample : STD VMS 200 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:39:07 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards						
1)	8260-PENTAFLUOROBENZENE	4.344	168	372704	40.0000000 ppb	0.00
41)	8260-1,4-DIFLUOROBENZENE	4.672	114	752744	40.0000000 ppb	0.00
53)	8260-2-BROMO-1-CHLOROP...	5.839	79	129870	40.0000000 ppb	0.00
84)	8260-1,4-DICHLOROBENZE...	8.222	152	297817	40.0000000 ppb	# 0.00
96)	AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114)	AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122)	AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128)	AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds						
33)	DIBROMOFLUOROMETHANE	4.110	111	272709	51.7638410 ppb	0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 129.41%#		
46)	a,a,a-Trifluorotoluene	5.039	146	480644	47.8182481 ppb	0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 119.55%#		
50)	TOLUENE-D8	5.502	98	1160637	48.6038488 ppb	0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 121.51%#		
68)	4-BROMOFLUOROBENZENE	7.380	95	459088	47.6576813 ppb	0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 119.14%		
Target Compounds						Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC	145458866m	952.5095891 ppm	
3)	PROPENE	1.679	41	155001	202.6441844 ppb	97
4)	DICHLORODIFLUOROMETHANE	1.724	85	1253807	205.6488288 ppb	97
5)	CHLOROMETHANE	1.881	50	1774860	212.4349622 ppb	100
6)	VINYL CHLORIDE	1.962	62	1836646	202.1593700 ppb	99
7)	1,3-BUTADIENE	1.968	39	1126550	211.8126981 ppb	98
8)	BROMOMETHANE	2.209	94	415183	131.4592872 ppb	98
9)	CHLOROETHANE	2.296	66	230512	138.5099891 ppb	97
10)	TRICHLOROFLUOROMETHANE	2.399	101	1320770	188.9553699 ppb	99
11)	DICHLOROFLUOROMETHANE	2.438	67	2328355	198.8643950 ppb	99
12)	ETHYL ETHER	2.595	59	1273418	193.4861807 ppb	99
13)	ACROLEIN	2.955	56	998018	1066.0048341 ppb	100
14)	1,1-DICHLOROETHENE	2.740	61	2029093	198.1679802 ppb	98
15)	1,1,2-TRICHLOROTRIFLUO...	2.762	101	948139	193.2730458 ppb	98
16)	ACETONE	3.129	43	1638264	1028.6684269 ppb	100
17)	IODOMETHANE	2.843	142	9037067	898.3828999 ppb	96
18)	CARBON DISULFIDE	2.772	76	4366068	195.9795195 ppb	99
19)	METHYLENE CHLORIDE	3.100	84	1625778	204.6478220 ppb	99
20)	ACRYLONITRILE	3.592	53	2279792	1083.1461768 ppb	99
21)	n-Hexane	3.219	56	1323594	206.1649443 ppb	92
22)	TRANS-1,2-DICHLOROETHENE	3.193	96	1485514	205.1920307 ppb	97
23)	METHYL TERT-BUTYL ETHER	3.241	73	4251192	213.7246344 ppb #	100
24)	1,1-DICHLOROETHANE	3.557	63	2795355	213.6193072 ppb	99
25)	VINYL ACETATE	3.669	43	10343577	1058.9319643 ppb	98
26)	DI-ISOPROPYL ETHER	3.444	45	5234981	222.2370426 ppb	97
27)	2,2-Dichloropropane	3.923	77	1529726	201.2297251 ppb	99
28)	CIS-1,2-DICHLOROETHENE	3.862	96	1669461	208.1690527 ppb	98
29)	2-BUTANONE (MEK)	4.171	72	801957	1042.1485144 ppb	94
30)	BROMOCHLOROMETHANE	3.978	130	869109	194.8659063 ppb	90
31)	TETRAHYDROFURAN	4.103	42	348475	213.4780978 ppb	91
32)	CHLOROFORM	4.000	83	2670488	209.1081673 ppb	100
34)	1,1,1-TRICHLOROETHANE	4.135	97	2006661	214.6838830 ppb	97
35)	CARBON TETRACHLORIDE	4.093	117	1600488	205.8779128 ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 13a.D
Acq On : 22 Oct 2014 12:53 am
Operator : 644
Sample : STD VMS 200 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:39:07 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.196	75	2069307	208.3602607 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.235	57	5894418	221.5558014 ppb		96
38) HEPTANE	4.270	43	2311536	220.1209808 ppb	#	94
39) BENZENE	4.344	78	6483867	209.7678449 ppb		99
40) 1,2-DICHLOROETHANE	4.463	62	2001044	201.0259746 ppb		100
42) TRICHLOROETHENE	4.669	130	1363819	188.5267161 ppb		99
43) 1,2-DICHLOROPROPANE	4.987	62	1157047	205.4442103 ppb		99
44) DIBROMOMETHANE	4.933	93	799671	192.3592011 ppb		98
45) BROMODICHLOROMETHANE	5.010	83	2097255	203.6999719 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.325	63	3948720	1138.5020607 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	2681356	209.8615410 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.753	58	2513871	1054.0718739 ppb		99
51) TOLUENE	5.534	91	6702350	197.6097473 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.791	110	539404	206.8021899 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.900	97	1203832	182.2816716 ppb		98
55) TETRACHLOROETHENE	5.785	164	863443	173.1229607 ppb		98
56) 1,3-Dichloropropane	6.087	76	2292308	187.1889074 ppb		99
57) 2-HEXANONE	6.293	58	2423344	992.9271461 ppb		99
58) CHLORODIBROMOMETHANE	6.026	129	1251463	190.0571328 ppb		100
59) 1,2-DIBROMOETHANE	6.203	107	1159438	183.5553257 ppb		99
60) CHLOROBENZENE	6.540	112	3959197	174.6416846 ppb		94
61) 1,1,1,2-TETRACHLOROETHANE	6.572	133	1252402	183.5587574 ppb		99
62) ETHYLBENZENE	6.534	106	2270696	180.8617918 ppb		93
63) M&P-XYLENE	6.627	106	5601041	357.0239576 ppb		96
64) O-XYLENE	6.936	106	2827812	184.4627114 ppb		96
65) STYRENE	6.974	104	4695954	205.4082449 ppb		99
66) Bromoform	7.019	173	658475	185.3199900 ppb		98
67) Isopropylbenzene	7.151	105	7208259	186.7248633 ppb		99
69) Bromobenzene	7.470	77	3481959	190.3092050 ppb		92
70) 1,1,2,2-TETRACHLOROETHANE	7.511	83	1519549	183.8031743 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.630	110	439056	179.6440169 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.646	53	468335	197.8926947 ppb		96
73) n-Propylbenzene	7.453	91	8874946	188.4808454 ppb		98
74) 4-ETHYLTOLUENE	7.531	105	7212593	183.1636400 ppb		98
75) 2-Chlorotoluene	7.592	126	1494841	166.1979803 ppb		83
76) 4-Chlorotoluene	7.714	91	5655445	188.4198994 ppb		97
77) 1,3,5-Trimethylbenzene	7.588	105	6116713	182.6251726 ppb		97
78) tert-Butylbenzene	7.836	119	4960443	182.8474606 ppb		97
79) 1,2,4-Trimethylbenzene	7.891	105	6334432	182.9536288 ppb		99
80) sec-Butylbenzene	7.971	105	7996577	183.6495272 ppb		98
81) 1,3-DICHLOROBENZENE	8.167	146	2867292	171.3079219 ppb		99
82) p-Isopropyltoluene	8.074	119	6148297	176.4266325 ppb		98
83) DICYCLOPENTADIENE	8.080	66	8123092	207.9269734 ppb		96
85) 1,4-DICHLOROBENZENE	8.235	146	2675375	189.2769248 ppb	#	34
86) 1,2,3-TRIMETHYLBENZENE	8.235	105	6449741	210.5905701 ppb		97
87) 1,2-DICHLOROBENZENE	8.569	146	2735324	202.5262463 ppb		98
88) n-Butylbenzene	8.405	91	6361476	218.5669022 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.212	157	253870	227.6045383 ppb		98
90) 1,2,4-Trichlorobenzene	9.756	180	1645840	205.5938562 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	816275	199.3476553 ppb		98
92) Naphthalene	10.032	128	4586624	227.3858045 ppb		99
93) 1,2,3-Trichlorobenzene	10.186	180	1515379	207.7280379 ppb		98
94) 1-Methylnaphthalene	10.900	142	2578395	240.7129649 ppb		99
95) 2-Methylnaphthalene	11.035	142	2139551	225.3349195 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 13a.D
Acq On : 22 Oct 2014 12:53 am
Operator : 644
Sample : STD VMS 200 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:39:07 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration

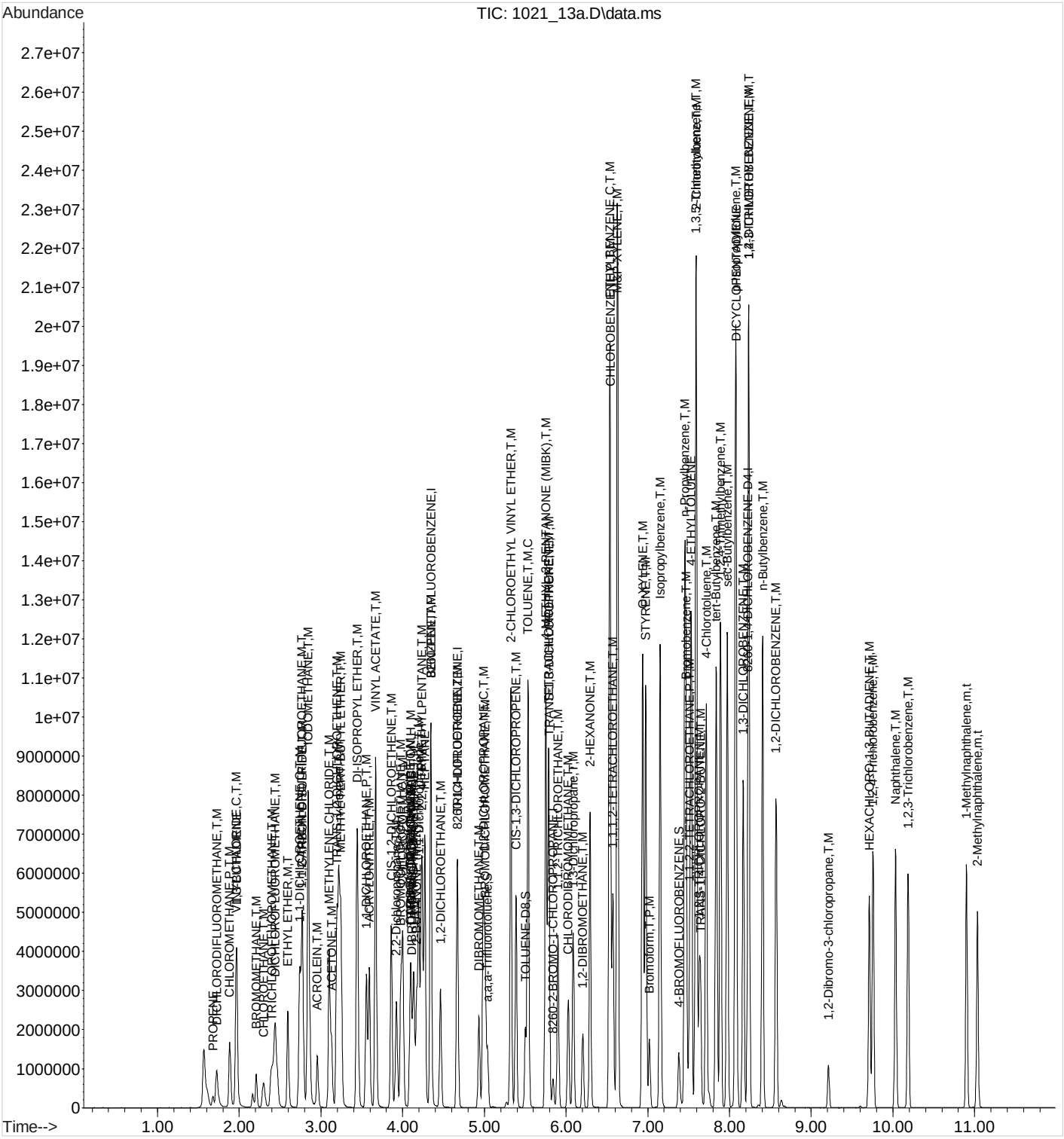
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	d
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	d
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	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\102114a\
Data File : 1021 13a.D
Acq On : 22 Oct 2014 12:53 am
Operator : 644
Sample : STD VMS 200 ppb 14J20240
Misc : water IS/SURR14I25028
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:39:07 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:22:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 17a.D
Acq On : 22 Oct 2014 2:06 am
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:57:04 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.344	168	355318	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	687884	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	106931	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	296961	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.	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D.	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D.	
24) 1,1-DICHLOROETHANE	0.000	0	N.D.	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D.	
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\102114a\
Data File : 1021 17a.D
Acq On : 22 Oct 2014 2:06 am
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:57:04 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
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.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
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\102114a\
Data File : 1021 17a.D
Acq On : 22 Oct 2014 2:06 am
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:57:04 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

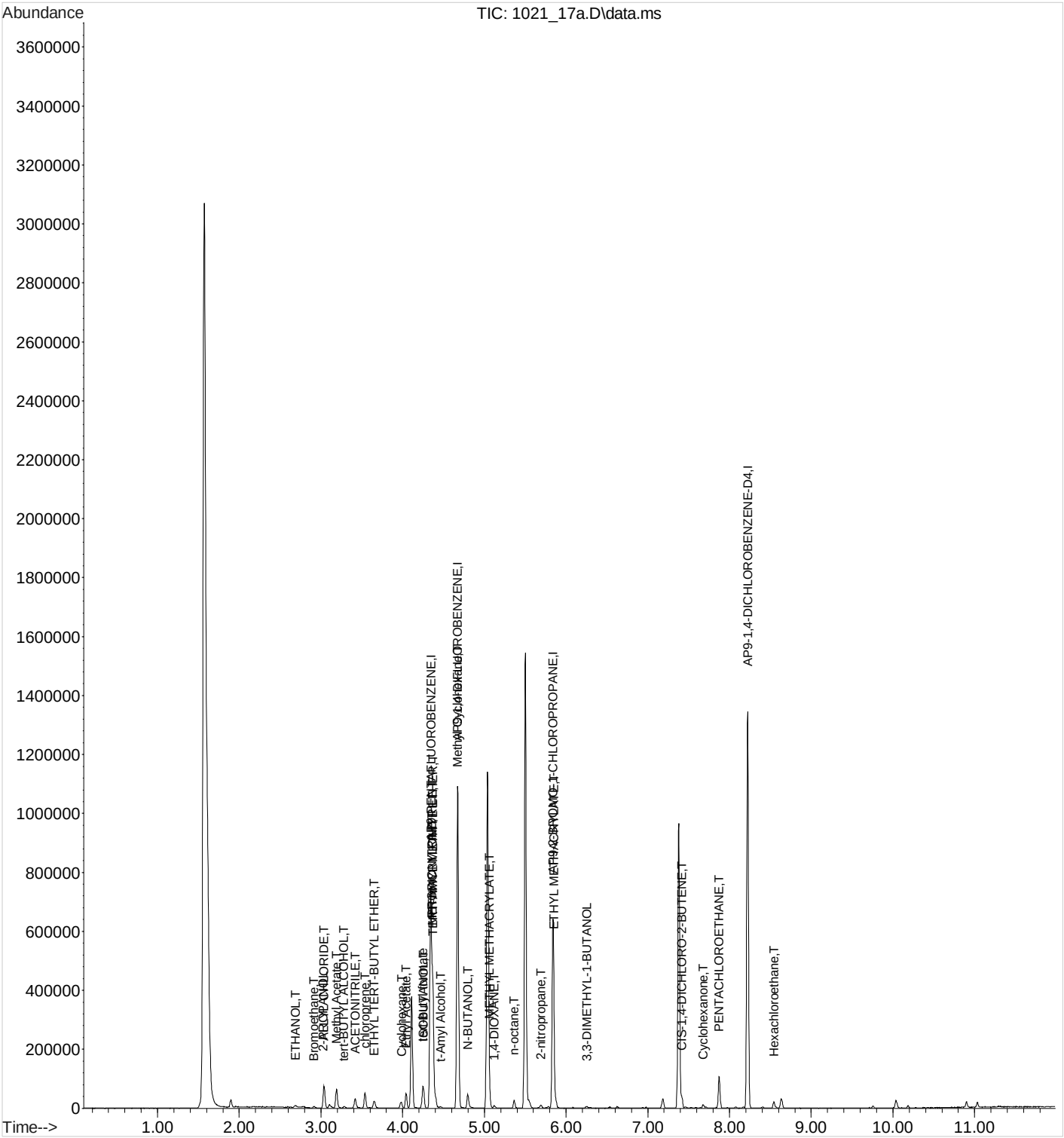
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.685	45	5792	76.0207453 ppb	#	78
98)	Bromoethane	2.914	108	4150	0.8489424 ppb		94
99)	2-PROPANOL	3.026	45	1854	5.6120996 ppb	#	54
100)	Methyl Acetate	3.190	43	65762	18.4622938 ppb	#	98
101)	ACETONITRILE	3.418	41	29795	43.9377216 ppb	#	88
102)	ALLYL CHLORIDE	3.039	76	14947	4.4725537 ppb		93
103)	tert-BUTYL ALCOHOL	3.280	59	5254	5.0535314 ppb	#	81
104)	chloroprene	3.537	53	24592	4.2615239 ppb		96
105)	ETHYL TERT-BUTYL ETHER	3.650	59	16879	0.8660337 ppb		96
106)	PROPIONITRILE	4.360	54	33576	43.7575240 ppb	#	73
107)	Ethyl Acetate	4.042	43	43985	9.1345169 ppb		99
108)	METHACRYLONITRILE	4.367	67	105395	43.0573022 ppb		99
109)	Cyclohexane	3.984	84	7278	0.8613471 ppb		90
110)	tert-butyl formate	4.248	59	28807	7.5623473 ppb		96
111)	ISOBUTANOL	4.251	41	24527	81.1785124 ppb	#	99
112)	t-Amyl Alcohol	4.466	59	1624	4.2688540 ppb		86
113)	TERT-AMYL METHYL ETHER	4.370	73	15846	0.8982678 ppb	#	20
115)	N-BUTANOL	4.794	56	23803	150.3208337 ppb		97
116)	Methyl Cyclohexane	4.669	83	18725	1.6328352 ppb	#	72
117)	2-nitropropane	5.692	43	5756	4.2979738 ppb	#	80
118)	METHYL METHACRYLATE	5.061	41	19108	3.9068766 ppb	#	10
119)	1,4-DIOXANE	5.122	88	5415	77.2229821 ppb		98
120)	n-octane	5.364	85	5148	0.9097993 ppb		90
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	2556	7.3676298 ppb	#	79
123)	ETHYL METHACRYLATE	5.849	69	24203	3.5532657 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	7713	4.0353488 ppb	#	31
125)	Cyclohexanone	7.679	55	4709	6.9619535 ppb		93
126)	PENTACHLOROETHANE	7.872	117	19424	4.9737780 ppb		95
127)	Hexachloroethane	8.544	117	3998	0.8580747 ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 17a.D
Acq On : 22 Oct 2014 2:06 am
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:57:04 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 18a.D
Acq On : 22 Oct 2014 2:24 am
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:57:51 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96)	AP9-PENTAFLUOROBENZENE	4.341	168	410797	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.673	114	769164	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.840	79	123551	40.0000000	ppb	# 0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	327769	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.	
4)	DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5)	CHLOROMETHANE	0.000	0	N.D. d	
6)	VINYL CHLORIDE	0.000	0	N.D.	
7)	1,3-BUTADIENE	0.000	0	N.D. d	
8)	BROMOMETHANE	0.000	0	N.D.	
9)	CHLOROETHANE	0.000	0	N.D.	
10)	TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11)	DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12)	ETHYL ETHER	0.000	0	N.D.	
13)	ACROLEIN	0.000	0	N.D.	
14)	1,1-DICHLOROETHENE	0.000	0	N.D.	
15)	1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16)	ACETONE	0.000	0	N.D. d	
17)	IODOMETHANE	0.000	0	N.D.	
18)	CARBON DISULFIDE	0.000	0	N.D. d	
19)	METHYLENE CHLORIDE	0.000	0	N.D. d	
20)	ACRYLONITRILE	0.000	0	N.D. d	
21)	n-Hexane	0.000	0	N.D.	
22)	TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23)	METHYL TERT-BUTYL ETHER	0.000	0	N.D.	
24)	1,1-DICHLOROETHANE	0.000	0	N.D. d	
25)	VINYL ACETATE	0.000	0	N.D. d	
26)	DI-ISOPROPYL ETHER	0.000	0	N.D.	
27)	2,2-Dichloropropane	0.000	0	N.D.	
28)	CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29)	2-BUTANONE (MEK)	0.000	0	N.D.	
30)	BROMOCHLOROMETHANE	0.000	0	N.D.	
31)	TETRAHYDROFURAN	0.000	0	N.D. d	
32)	CHLOROFORM	0.000	0	N.D.	
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\102114a\
Data File : 1021 18a.D
Acq On : 22 Oct 2014 2:24 am
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:57:51 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	
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.	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\102114a\
Data File : 1021 18a.D
Acq On : 22 Oct 2014 2:24 am
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:57:51 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

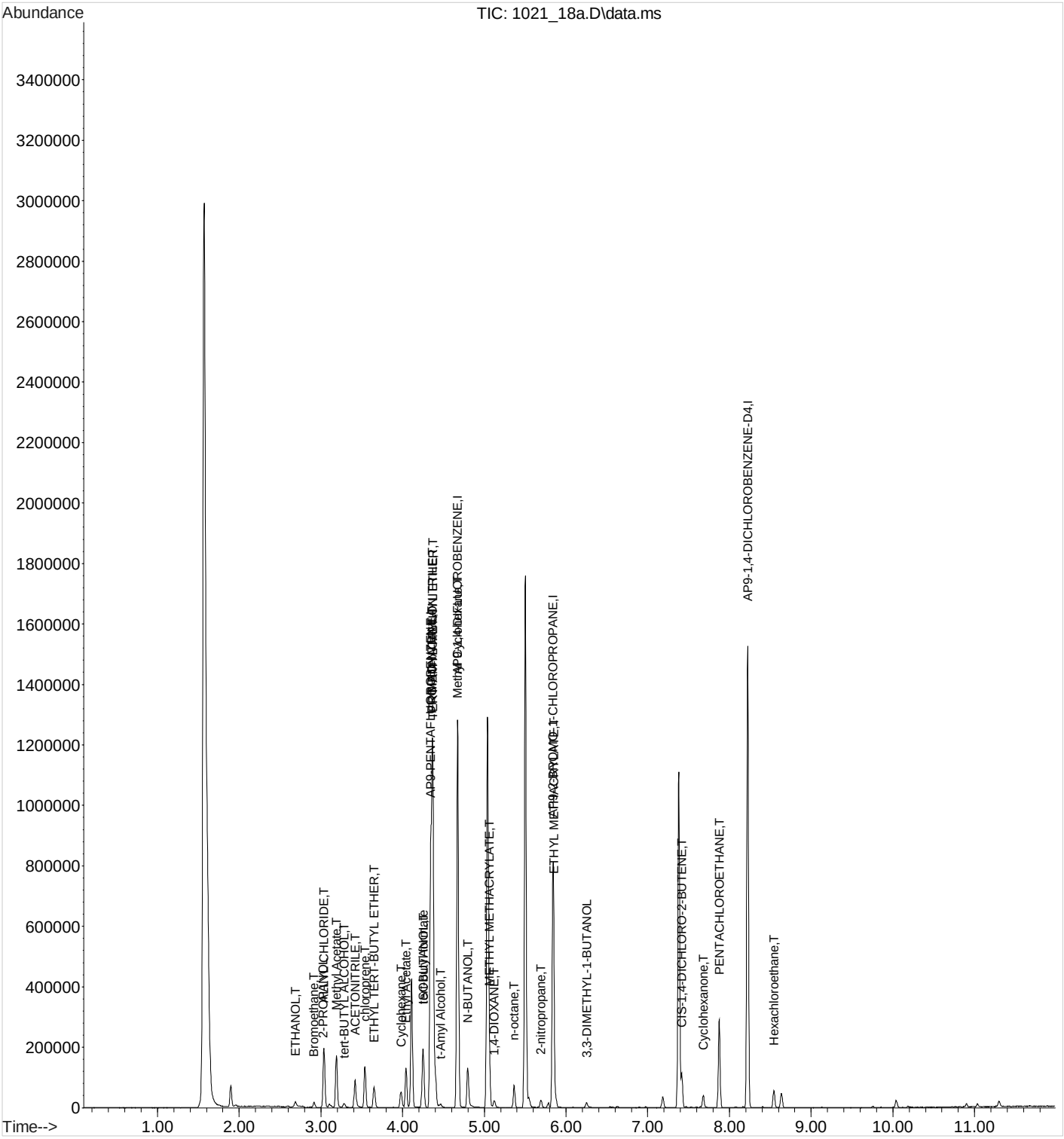
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.685	45	18256	207.2521967 ppb	#	99
98)	Bromoethane	2.914	108	11811	2.0898097 ppb		95
99)	2-PROPANOL	3.023	45	4888	12.7978431 ppb		95
100)	Methyl Acetate	3.190	43	178742	43.4037449 ppb	#	99
101)	ACETONITRILE	3.419	41	81784	104.3163628 ppb		98
102)	ALLYL CHLORIDE	3.036	76	41230	10.6709924 ppb		100
103)	tert-BUTYL ALCOHOL	3.283	59	14423	11.9991490 ppb		98
104)	chloroprene	3.538	53	65606	9.8334198 ppb		96
105)	ETHYL TERT-BUTYL ETHER	3.653	59	46874	2.0802237 ppb		98
106)	PROPIONITRILE	4.361	54	94536	106.5641074 ppb	#	93
107)	Ethyl Acetate	4.042	43	117068	21.0285405 ppb		100
108)	METHACRYLONITRILE	4.367	67	302226	106.7944236 ppb		98
109)	Cyclohexane	3.981	84	19437	1.9896896 ppb		97
110)	tert-butyl formate	4.251	59	74761	16.9755413 ppb		97
111)	ISOBUTANOL	4.251	41	62349	178.4909065 ppb	#	99
112)	t-Amyl Alcohol	4.467	59	4591	10.4381256 ppb		95
113)	TERT-AMYL METHYL ETHER	4.370	73	42609	2.0891877 ppb	#	69
115)	N-BUTANOL	4.798	56	66420	375.1307015 ppb		97
116)	Methyl Cyclohexane	4.669	83	33656	2.6246977 ppb		91
117)	2-nitropropane	5.692	43	15158	10.1223450 ppb		93
118)	METHYL METHACRYLATE	5.062	41	55744	10.1931602 ppb	#	78
119)	1,4-DIOXANE	5.123	88	14702	187.5084246 ppb	#	95
120)	n-octane	5.364	85	13544	2.1406727 ppb		94
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	7568	19.5094187 ppb	#	84
123)	ETHYL METHACRYLATE	5.849	69	74222	9.4307992 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	23360	10.5776197 ppb	#	83
125)	Cyclohexanone	7.682	55	15107	19.3302745 ppb		98
126)	PENTACHLOROETHANE	7.875	117	50311	11.1498248 ppb		96
127)	Hexachloroethane	8.544	117	11481	2.1326491 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 18a.D
Acq On : 22 Oct 2014 2:24 am
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:57:51 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 19a.D
Acq On : 22 Oct 2014 2:42 am
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:58:35 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.344	168	351109	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	661108	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	107500	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	293461	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.
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.
5) CHLOROMETHANE	0.000	0	N.D. d
6) VINYL CHLORIDE	0.000	0	N.D.
7) 1,3-BUTADIENE	0.000	0	N.D. d
8) BROMOMETHANE	0.000	0	N.D.
9) CHLOROETHANE	0.000	0	N.D.
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.
12) ETHYL ETHER	0.000	0	N.D.
13) ACROLEIN	0.000	0	N.D.
14) 1,1-DICHLOROETHENE	0.000	0	N.D.
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.
16) ACETONE	0.000	0	N.D. d
17) IODOMETHANE	0.000	0	N.D.
18) CARBON DISULFIDE	0.000	0	N.D. d
19) METHYLENE CHLORIDE	0.000	0	N.D. d
20) ACRYLONITRILE	0.000	0	N.D. d
21) n-Hexane	0.000	0	N.D. d
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. 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\102114a\
Data File : 1021 19a.D
Acq On : 22 Oct 2014 2:42 am
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:58:35 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	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.	
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\102114a\
Data File : 1021 19a.D
Acq On : 22 Oct 2014 2:42 am
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:58:35 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

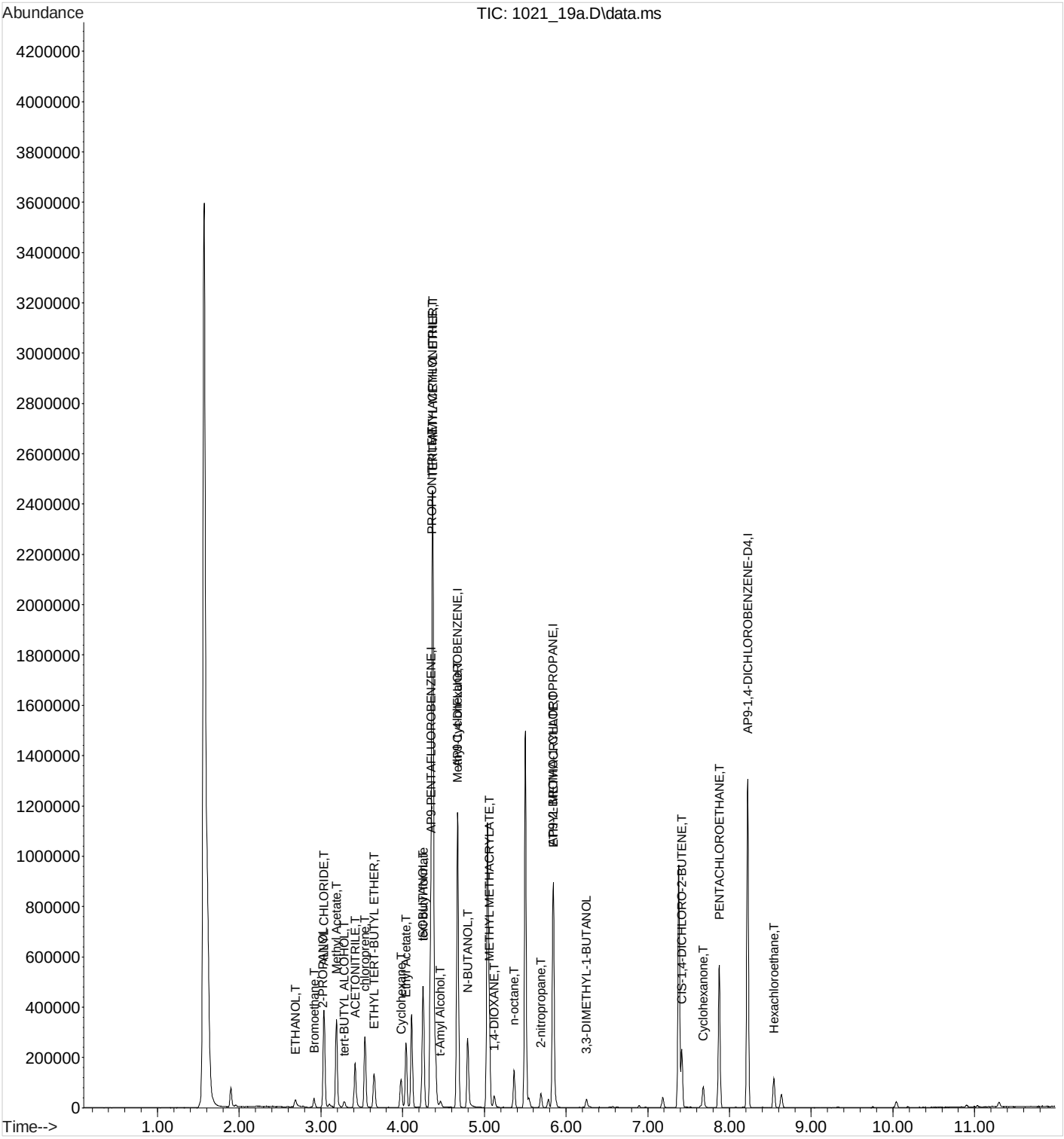
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.685	45	34594	459.4937387 ppb	#	96
98)	Bromoethane	2.917	108	23487	4.8622011 ppb		94
99)	2-PROPANOL	3.026	45	7785	23.8478649 ppb		99
100)	Methyl Acetate	3.190	43	360006	102.2811565 ppb	#	100
101)	ACETONITRILE	3.418	41	165747	247.3517950 ppb		100
102)	ALLYL CHLORIDE	3.039	76	81464	24.6684866 ppb		98
103)	tert-BUTYL ALCOHOL	3.283	59	24091	23.4495747 ppb	#	93
104)	chloroprene	3.537	53	142047	24.9102673 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.653	59	96452	5.0081181 ppb		98
106)	PROPIONITRILE	4.360	54	189628	250.0929764 ppb		98
107)	Ethyl Acetate	4.042	43	230442	48.4303791 ppb		100
108)	METHACRYLONITRILE	4.367	67	602601	249.1333698 ppb		99
109)	Cyclohexane	3.981	84	42475	5.0871529 ppb		99
110)	tert-butyl formate	4.251	59	192187	51.0572992 ppb		98
111)	ISOBUTANOL	4.248	41	154604	517.8364663 ppb	#	99
112)	t-Amyl Alcohol	4.460	59	8839	23.5127626 ppb		95
113)	TERT-AMYL METHYL ETHER	4.370	73	90266	5.1782810 ppb	#	96
115)	N-BUTANOL	4.795	56	133817	879.3090926 ppb		95
116)	Methyl Cyclohexane	4.669	83	60734	5.5105535 ppb		95
117)	2-nitropropane	5.692	43	32088	24.9303524 ppb		93
118)	METHYL METHACRYLATE	5.061	41	118123	25.1299558 ppb		89
119)	1,4-DIOXANE	5.122	88	29912	443.8501342 ppb		96
120)	n-octane	5.364	85	27927	5.1353985 ppb		91
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	15504	46.5000588 ppb	#	86
123)	ETHYL METHACRYLATE	5.846	69	161719	23.6164543 ppb	#	48
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	46363	24.1281731 ppb		98
125)	Cyclohexanone	7.679	55	32132	47.2536490 ppb		97
126)	PENTACHLOROETHANE	7.875	117	100244	25.5329669 ppb		99
127)	Hexachloroethane	8.544	117	24112	5.1476703 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 19a.D
Acq On : 22 Oct 2014 2:42 am
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:58:35 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 20a.D
Acq On : 22 Oct 2014 3:00 am
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:59:20 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96)	AP9-PENTAFLUOROBENZENE	4.341	168	368388	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.672	114	683511	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.840	79	109346	40.0000000	ppb	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	289447	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.
4)	DICHLORODIFLUOROMETHANE	0.000	0	N.D.
5)	CHLOROMETHANE	0.000	0	N.D. d
6)	VINYL CHLORIDE	0.000	0	N.D.
7)	1,3-BUTADIENE	0.000	0	N.D. d
8)	BROMOMETHANE	0.000	0	N.D.
9)	CHLOROETHANE	0.000	0	N.D.
10)	TRICHLOROFLUOROMETHANE	0.000	0	N.D.
11)	DICHLOROFLUOROMETHANE	0.000	0	N.D.
12)	ETHYL ETHER	0.000	0	N.D.
13)	ACROLEIN	0.000	0	N.D.
14)	1,1-DICHLOROETHENE	0.000	0	N.D.
15)	1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.
16)	ACETONE	0.000	0	N.D. d
17)	IODOMETHANE	0.000	0	N.D.
18)	CARBON DISULFIDE	0.000	0	N.D. d
19)	METHYLENE CHLORIDE	0.000	0	N.D. d
20)	ACRYLONITRILE	0.000	0	N.D. d
21)	n-Hexane	0.000	0	N.D. d
22)	TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.
23)	METHYL TERT-BUTYL ETHER	0.000	0	N.D. d
24)	1,1-DICHLOROETHANE	0.000	0	N.D. d
25)	VINYL ACETATE	0.000	0	N.D. d
26)	DI-ISOPROPYL ETHER	0.000	0	N.D.
27)	2,2-Dichloropropane	0.000	0	N.D.
28)	CIS-1,2-DICHLOROETHENE	0.000	0	N.D.
29)	2-BUTANONE (MEK)	0.000	0	N.D.
30)	BROMOCHLOROMETHANE	0.000	0	N.D.
31)	TETRAHYDROFURAN	0.000	0	N.D. d
32)	CHLOROFORM	0.000	0	N.D. d
34)	1,1,1-TRICHLOROETHANE	0.000	0	N.D.
35)	CARBON TETRACHLORIDE	0.000	0	N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 20a.D
Acq On : 22 Oct 2014 3:00 am
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:59:20 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	
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.	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\102114a\
Data File : 1021 20a.D
Acq On : 22 Oct 2014 3:00 am
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:59:20 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

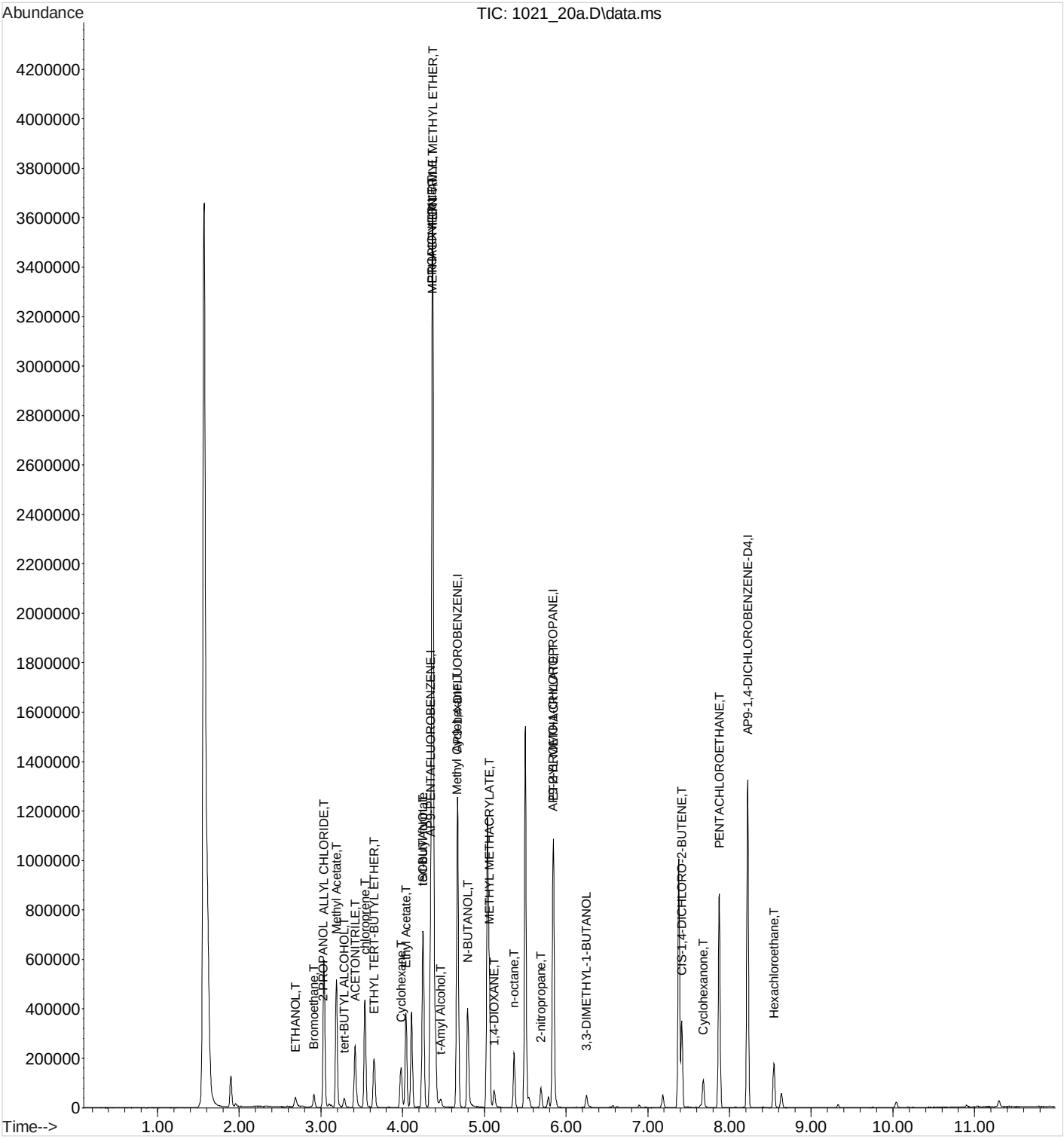
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.685	45	47535	601.7676014 ppb	#	93
98)	Bromoethane	2.914	108	35341	6.9730165 ppb		97
99)	2-PROPANOL	3.023	45	11370	33.1961591 ppb		96
100)	Methyl Acetate	3.190	43	525970	142.4240568 ppb	#	100
101)	ACETONITRILE	3.418	41	241464	343.4458457 ppb		98
102)	ALLYL CHLORIDE	3.036	76	127844	36.8972173 ppb		97
103)	tert-BUTYL ALCOHOL	3.283	59	37070	34.3905575 ppb	#	91
104)	chloroprene	3.537	53	220418	36.8408690 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.650	59	144681	7.1599718 ppb		99
106)	PROPIONITRILE	4.361	54	278917	350.5988627 ppb		100
107)	Ethyl Acetate	4.042	43	347688	69.6437939 ppb		100
108)	METHACRYLONITRILE	4.367	67	903298	355.9340941 ppb		98
109)	Cyclohexane	3.981	84	64401	7.3514076 ppb		99
110)	tert-butyl formate	4.248	59	287184	72.7160965 ppb		99
111)	ISOBUTANOL	4.248	41	224054	715.2553140 ppb	#	99
112)	t-Amyl Alcohol	4.463	59	12632	32.0264742 ppb		97
113)	TERT-AMYL METHYL ETHER	4.370	73	131806	7.2066442 ppb	#	98
115)	N-BUTANOL	4.795	56	198425	1261.1117381 ppb		97
116)	Methyl Cyclohexane	4.666	83	83741	7.3490023 ppb		98
117)	2-nitropropane	5.692	43	45224	33.9845596 ppb		92
118)	METHYL METHACRYLATE	5.061	41	174365	35.8792598 ppb		96
119)	1,4-DIOXANE	5.119	88	44606	640.1932455 ppb		97
120)	n-octane	5.364	85	39412	7.0097938 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	22567	65.4651965 ppb		92
123)	ETHYL METHACRYLATE	5.846	69	251390	36.0916891 ppb	#	81
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	70548	36.0946786 ppb		95
125)	Cyclohexanone	7.679	55	41689	60.2732534 ppb		98
126)	PENTACHLOROETHANE	7.875	117	152551	38.2000135 ppb		99
127)	Hexachloroethane	8.544	117	34976	7.3409657 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 20a.D
Acq On : 22 Oct 2014 3:00 am
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:59:20 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 21a.D
Acq On : 22 Oct 2014 3:19 am
Operator : 644
Sample : MSTD VMS 10 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:53:12 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:50:21 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96)	AP9-PENTAFLUOROBENZENE	4.341	168	356224	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.672	114	669200	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.840	79	110450	40.0000000	ppb	# 0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	290541	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.	
4)	DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5)	CHLOROMETHANE	0.000	0	N.D. d	
6)	VINYL CHLORIDE	0.000	0	N.D.	
7)	1,3-BUTADIENE	0.000	0	N.D. d	
8)	BROMOMETHANE	0.000	0	N.D.	
9)	CHLOROETHANE	0.000	0	N.D.	
10)	TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11)	DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12)	ETHYL ETHER	0.000	0	N.D.	
13)	ACROLEIN	0.000	0	N.D.	
14)	1,1-DICHLOROETHENE	0.000	0	N.D.	
15)	1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16)	ACETONE	0.000	0	N.D. d	
17)	IODOMETHANE	0.000	0	N.D.	
18)	CARBON DISULFIDE	0.000	0	N.D. d	
19)	METHYLENE CHLORIDE	0.000	0	N.D. d	
20)	ACRYLONITRILE	0.000	0	N.D. d	
21)	n-Hexane	0.000	0	N.D. d	
22)	TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23)	METHYL TERT-BUTYL ETHER	0.000	0	N.D. 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\102114a\
Data File : 1021 21a.D
Acq On : 22 Oct 2014 3:19 am
Operator : 644
Sample : MSTD VMS 10 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:53:12 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:50:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
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.	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.	
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\102114a\
Data File : 1021 21a.D
Acq On : 22 Oct 2014 3:19 am
Operator : 644
Sample : MSTD VMS 10 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:53:12 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:50:21 2014
Response via : Initial Calibration

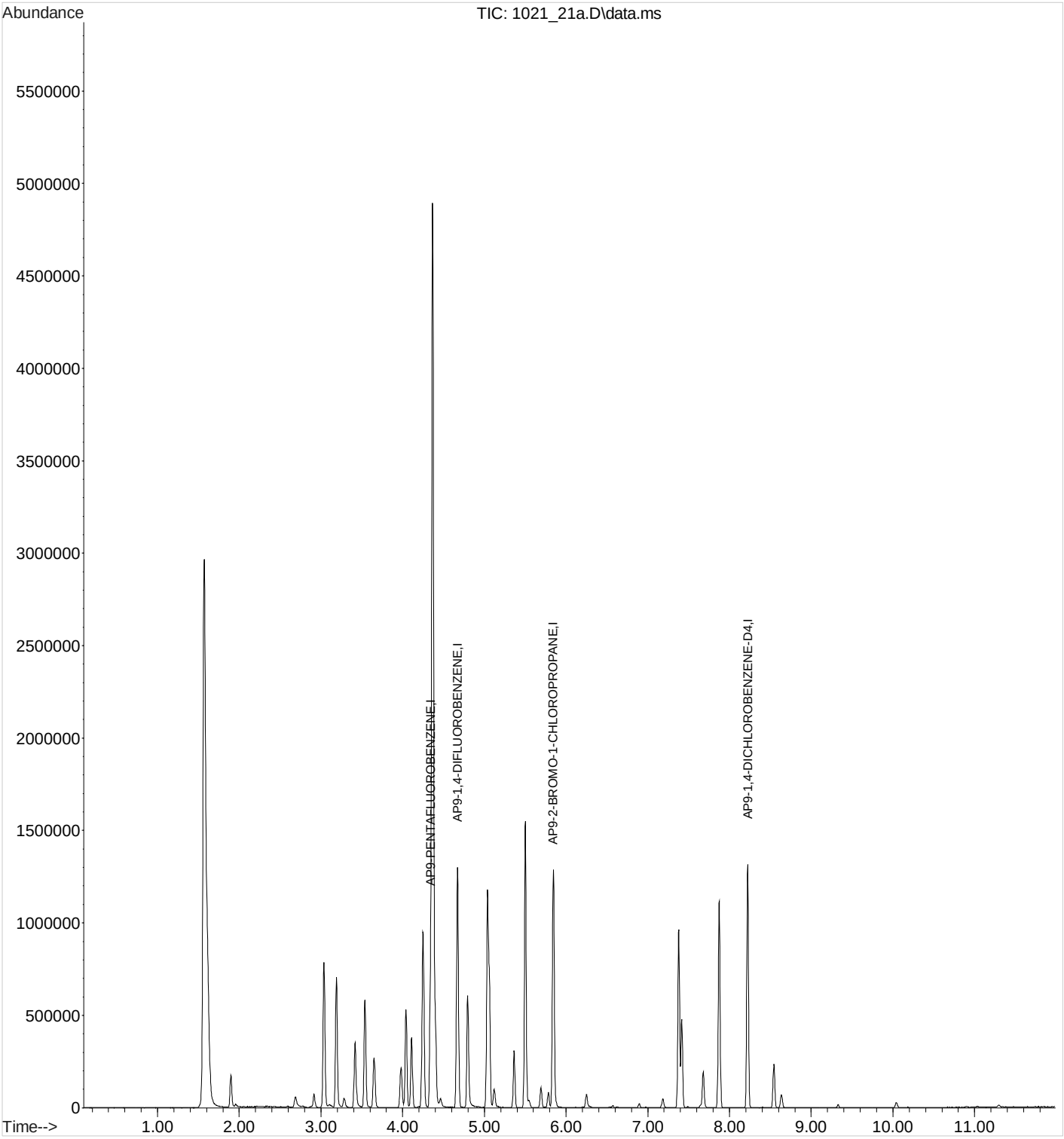
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.685	45	76384	No Calib	#
98)	Bromoethane	2.914	108	49009	No Calib	
99)	2-PROPANOL	3.023	45	16560	No Calib	
100)	Methyl Acetate	3.190	43	714209	No Calib	#
101)	ACETONITRILE	3.418	41	339924	No Calib	
102)	ALLYL CHLORIDE	3.036	76	167523	No Calib	
103)	tert-BUTYL ALCOHOL	3.283	59	52116	No Calib	#
104)	chloroprene	3.537	53	289271	No Calib	
105)	ETHYL TERT-BUTYL ETHER	3.650	59	195397	No Calib	
106)	PROPIONITRILE	4.361	54	384638	No Calib	
107)	Ethyl Acetate	4.042	43	482753	No Calib	
108)	METHACRYLONITRILE	4.367	67	1227013	No Calib	
109)	Cyclohexane	3.981	84	84711	No Calib	
110)	tert-butyl formate	4.248	59	381898	No Calib	
111)	ISOBUTANOL	4.248	41	302907	No Calib	#
112)	t-Amyl Alcohol	4.463	59	19070	No Calib	
113)	TERT-AMYL METHYL ETHER	4.370	73	176856	No Calib	#
115)	N-BUTANOL	4.795	56	308094	No Calib	
116)	Methyl Cyclohexane	4.666	83	111563	No Calib	
117)	2-nitropropane	5.692	43	65143	No Calib	
118)	METHYL METHACRYLATE	5.061	41	237901	No Calib	
119)	1,4-DIOXANE	5.119	88	68217	No Calib	
120)	n-octane	5.364	85	55047	No Calib	
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	33750	No Calib	#
123)	ETHYL METHACRYLATE	5.846	69	351782	No Calib	#
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	98713	No Calib	
125)	Cyclohexanone	7.679	55	69865	No Calib	
126)	PENTACHLOROETHANE	7.875	117	201690	No Calib	
127)	Hexachloroethane	8.544	117	48126	No Calib	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 21a.D
Acq On : 22 Oct 2014 3:19 am
Operator : 644
Sample : MSTD VMS 10 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 14:53:12 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:50:21 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 22a.D
Acq On : 22 Oct 2014 3:37 am
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:00:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.341	168	358868	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	682032	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	111421	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	297429	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.
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.
5) CHLOROMETHANE	0.000	0	N.D. d
6) VINYL CHLORIDE	0.000	0	N.D.
7) 1,3-BUTADIENE	0.000	0	N.D. d
8) BROMOMETHANE	0.000	0	N.D.
9) CHLOROETHANE	0.000	0	N.D.
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.
12) ETHYL ETHER	0.000	0	N.D.
13) ACROLEIN	0.000	0	N.D.
14) 1,1-DICHLOROETHENE	0.000	0	N.D.
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.
16) ACETONE	0.000	0	N.D. d
17) IODOMETHANE	0.000	0	N.D.
18) CARBON DISULFIDE	0.000	0	N.D. d
19) METHYLENE CHLORIDE	0.000	0	N.D. d
20) ACRYLONITRILE	0.000	0	N.D. d
21) n-Hexane	0.000	0	N.D. d
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. 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\102114a\
Data File : 1021 22a.D
Acq On : 22 Oct 2014 3:37 am
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:00:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
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.	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.	
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.	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.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 22a.D
Acq On : 22 Oct 2014 3:37 am
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:00:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

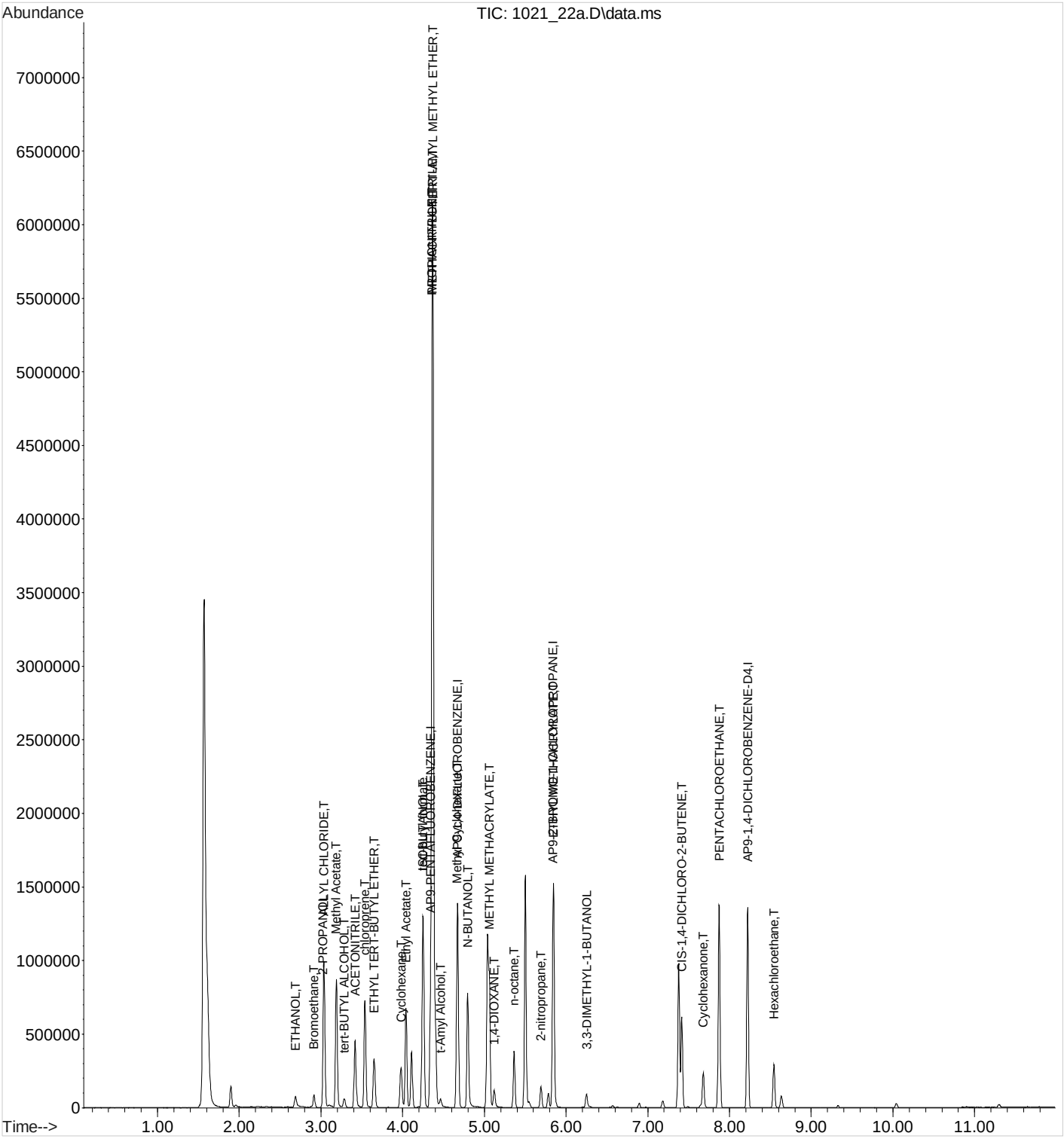
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.689	45	89456	1162.5068463 ppb	#	98
98)	Bromoethane	2.914	108	58893	11.9282375 ppb		100
99)	2-PROPANOL	3.026	45	18919	56.7017275 ppb	#	90
100)	Methyl Acetate	3.187	43	894180	248.5524627 ppb	#	99
101)	ACETONITRILE	3.418	41	424565	619.8988157 ppb		99
102)	ALLYL CHLORIDE	3.036	76	210757	62.4404483 ppb		98
103)	tert-BUTYL ALCOHOL	3.283	59	59270	56.4445868 ppb		95
104)	chloroprene	3.537	53	366069	62.8082224 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.650	59	243435	12.3666927 ppb		97
106)	PROPIONITRILE	4.361	54	482821	623.0062584 ppb		100
107)	Ethyl Acetate	4.042	43	605040	124.4077821 ppb		100
108)	METHACRYLONITRILE	4.367	67	1540582	623.1521550 ppb		99
109)	Cyclohexane	3.981	84	102674	12.0312047 ppb		94
110)	tert-butyl formate	4.248	59	531480	138.1427140 ppb		98
111)	ISOBUTANOL	4.248	41	407095	1334.0585797 ppb	#	99
112)	t-Amyl Alcohol	4.463	59	24121	62.7773619 ppb		92
113)	TERT-AMYL METHYL ETHER	4.370	73	224112	12.5786419 ppb	#	98
115)	N-BUTANOL	4.795	56	378776	2412.5725884 ppb		100
116)	Methyl Cyclohexane	4.666	83	132574	11.6597532 ppb		95
117)	2-nitropropane	5.692	43	84151	63.3742323 ppb		96
118)	METHYL METHACRYLATE	5.061	41	301942	62.2656383 ppb		97
119)	1,4-DIOXANE	5.119	88	78436	1128.1685848 ppb		96
120)	n-octane	5.364	85	71252	12.7003177 ppb		94
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	43266	125.7836374 ppb		95
123)	ETHYL METHACRYLATE	5.846	69	450931	63.5338468 ppb		91
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	124152	62.3373078 ppb		99
125)	Cyclohexanone	7.679	55	88745	125.9165740 ppb		98
126)	PENTACHLOROETHANE	7.875	117	252412	62.0289321 ppb		98
127)	Hexachloroethane	8.544	117	60217	12.4033220 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 22a.D
Acq On : 22 Oct 2014 3:37 am
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:00:16 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 23a.D
Acq On : 22 Oct 2014 3:55 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:00:59 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96)	AP9-PENTAFLUOROBENZENE	4.341	168	367881	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.672	114	681534	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.840	79	112796	40.0000000	ppb	# 0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	295816	40.0000000	ppb	0.00
System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
	Spiked Amount 40.000	Range 78 - 121		Recovery	= 0.00%#		
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
	Spiked Amount 40.000	Range 85 - 114		Recovery	= 0.00%#		
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
	Spiked Amount 40.000	Range 89 - 111		Recovery	= 0.00%#		
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
	Spiked Amount 40.000	Range 71 - 126		Recovery	= 0.00%#		

	Target Compounds				Qvalue
2)	TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3)	PROPENE	0.000	0	N.D. d	
4)	DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5)	CHLOROMETHANE	0.000	0	N.D. d	
6)	VINYL CHLORIDE	0.000	0	N.D.	
7)	1,3-BUTADIENE	0.000	0	N.D. d	
8)	BROMOMETHANE	0.000	0	N.D.	
9)	CHLOROETHANE	0.000	0	N.D.	
10)	TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11)	DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12)	ETHYL ETHER	0.000	0	N.D.	
13)	ACROLEIN	0.000	0	N.D.	
14)	1,1-DICHLOROETHENE	0.000	0	N.D.	
15)	1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16)	ACETONE	0.000	0	N.D. d	
17)	IODOMETHANE	0.000	0	N.D.	
18)	CARBON DISULFIDE	0.000	0	N.D. d	
19)	METHYLENE CHLORIDE	0.000	0	N.D. d	
20)	ACRYLONITRILE	0.000	0	N.D. d	
21)	n-Hexane	0.000	0	N.D. d	
22)	TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23)	METHYL TERT-BUTYL ETHER	0.000	0	N.D. 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\102114a\
Data File : 1021 23a.D
Acq On : 22 Oct 2014 3:55 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:00:59 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	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.	
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.	
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.	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.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 23a.D
Acq On : 22 Oct 2014 3:55 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:00:59 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

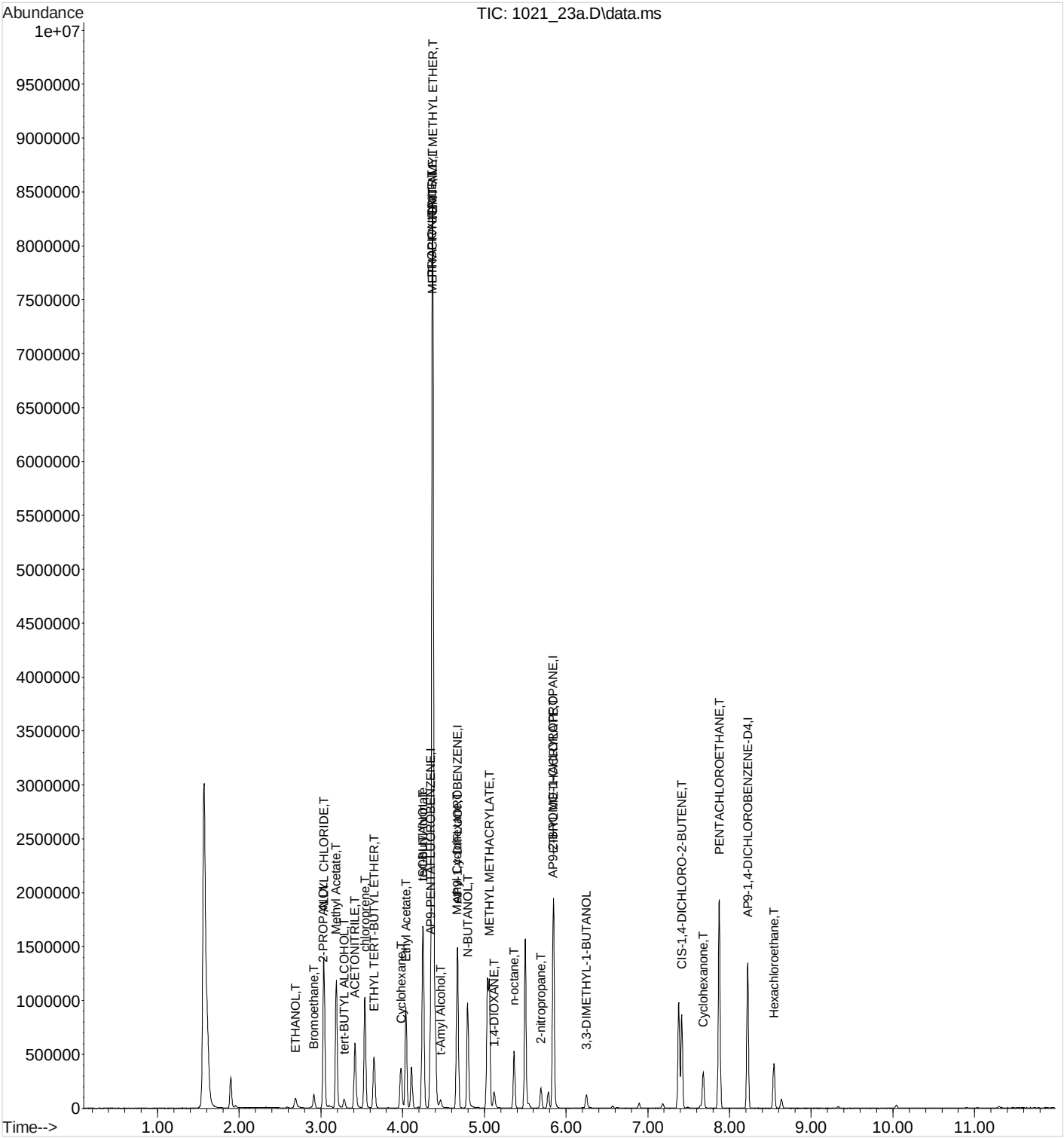
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.689	45	113734	1441.7957259	ppb	#	95
98)	Bromoethane	2.914	108	80984	16.0007080	ppb		92
99)	2-PROPANOL	3.026	45	24499	71.6265193	ppb		99
100)	Methyl Acetate	3.187	43	1201038	325.6696168	ppb	#	99
101)	ACETONITRILE	3.415	41	559280	796.5871245	ppb		99
102)	ALLYL CHLORIDE	3.036	76	299533	86.5677354	ppb		100
103)	tert-BUTYL ALCOHOL	3.283	59	78313	72.7526149	ppb		95
104)	chloroprene	3.537	53	510751	85.4850462	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.650	59	346266	17.1596243	ppb		99
106)	PROPIONITRILE	4.361	54	648919	816.8157897	ppb		99
107)	Ethyl Acetate	4.039	43	839437	168.3755177	ppb		100
108)	METHACRYLONITRILE	4.367	67	2094352	826.3924367	ppb		100
109)	Cyclohexane	3.981	84	142729	16.3150434	ppb		96
110)	tert-butyl formate	4.248	59	688875	174.6661943	ppb		98
111)	ISOBUTANOL	4.248	41	528353	1689.0040292	ppb	#	100
112)	t-Amyl Alcohol	4.463	59	30595	77.6757735	ppb		98
113)	TERT-AMYL METHYL ETHER	4.370	73	315664	17.2830774	ppb	#	94
115)	N-BUTANOL	4.795	56	483477	3081.7044062	ppb		98
116)	Methyl Cyclohexane	4.666	83	181801	16.0009029	ppb		98
117)	2-nitropropane	5.695	43	109914	82.8368676	ppb		100
118)	METHYL METHACRYLATE	5.061	41	412112	85.0466876	ppb		95
119)	1,4-DIOXANE	5.119	88	97139	1398.2003859	ppb		98
120)	n-octane	5.364	85	96768	17.2610224	ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	54570	158.7627388	ppb		91
123)	ETHYL METHACRYLATE	5.846	69	650056	90.4730400	ppb	#	79
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	172770	85.6911573	ppb		94
125)	Cyclohexanone	7.679	55	122148	171.1980125	ppb		99
126)	PENTACHLOROETHANE	7.875	117	352199	85.4959964	ppb		99
127)	Hexachloroethane	8.544	117	84586	17.2103912	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 23a.D
Acq On : 22 Oct 2014 3:55 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:00:59 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 24a.D
Acq On : 22 Oct 2014 4:14 am
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:01:53 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96)	AP9-PENTAFLUOROBENZENE	4.341	168	371891	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.672	114	702842	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.839	79	113969	40.0000000	ppb	# 0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	309614	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.	
4)	DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5)	CHLOROMETHANE	0.000	0	N.D. d	
6)	VINYL CHLORIDE	0.000	0	N.D.	
7)	1,3-BUTADIENE	0.000	0	N.D. d	
8)	BROMOMETHANE	0.000	0	N.D.	
9)	CHLOROETHANE	0.000	0	N.D.	
10)	TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11)	DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12)	ETHYL ETHER	0.000	0	N.D. d	
13)	ACROLEIN	0.000	0	N.D.	
14)	1,1-DICHLOROETHENE	0.000	0	N.D.	
15)	1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16)	ACETONE	0.000	0	N.D. d	
17)	IODOMETHANE	0.000	0	N.D.	
18)	CARBON DISULFIDE	0.000	0	N.D. d	
19)	METHYLENE CHLORIDE	0.000	0	N.D. d	
20)	ACRYLONITRILE	0.000	0	N.D. d	
21)	n-Hexane	0.000	0	N.D. d	
22)	TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23)	METHYL TERT-BUTYL ETHER	0.000	0	N.D. 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\102114a\
Data File : 1021 24a.D
Acq On : 22 Oct 2014 4:14 am
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:01:53 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	d
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
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.	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.	
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.	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\102114a\
Data File : 1021 24a.D
Acq On : 22 Oct 2014 4:14 am
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:01:53 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

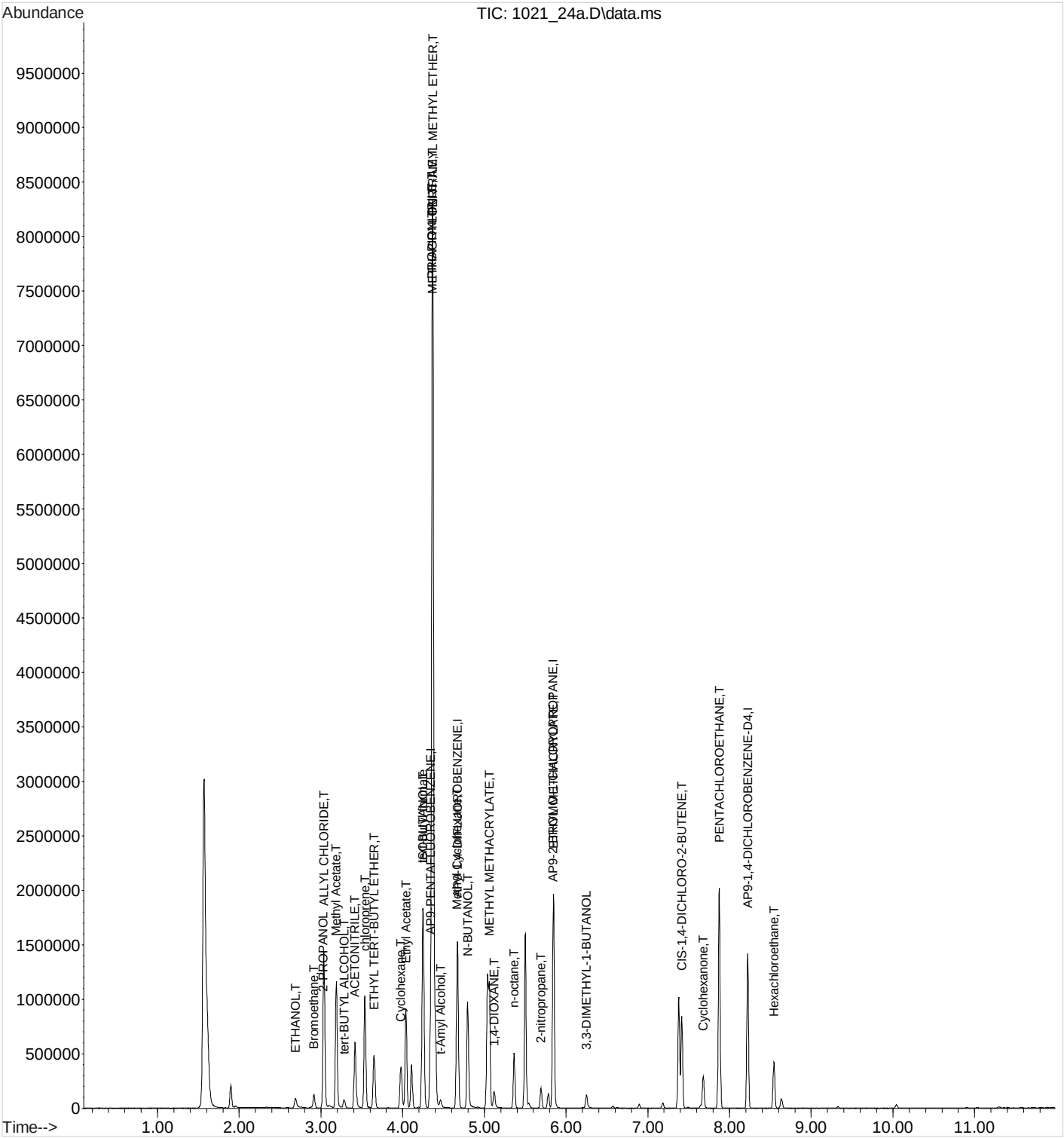
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.688	45	109633	1374.8217960 ppb	#	98
98)	Bromoethane	2.913	108	85037	16.6203283 ppb		99
99)	2-PROPANOL	3.023	45	25165	72.7803457 ppb		97
100)	Methyl Acetate	3.187	43	1188505	318.7962454 ppb	#	99
101)	ACETONITRILE	3.415	41	553329	779.6130777 ppb		97
102)	ALLYL CHLORIDE	3.036	76	306234	87.5500659 ppb		100
103)	tert-BUTYL ALCOHOL	3.283	59	74410	68.3813611 ppb	#	91
104)	chloroprene	3.537	53	516655	85.5407890 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.650	59	358843	17.5911445 ppb		98
106)	PROPIONITRILE	4.360	54	637681	794.0151728 ppb		100
107)	Ethyl Acetate	4.039	43	809488	160.6175294 ppb		99
108)	METHACRYLONITRILE	4.367	67	2089410	815.5526757 ppb		99
109)	Cyclohexane	3.978	84	142622	16.1270236 ppb		94
110)	tert-butyl formate	4.248	59	748356	187.7017703 ppb		98
111)	ISOBUTANOL	4.248	41	569561	1801.1025530 ppb	#	99
112)	t-Amyl Alcohol	4.463	59	29720	74.6406863 ppb		94
113)	TERT-AMYL METHYL ETHER	4.370	73	318586	17.2549775 ppb	#	94
115)	N-BUTANOL	4.794	56	474642	2933.6692363 ppb		100
116)	Methyl Cyclohexane	4.666	83	178258	15.2134276 ppb		97
117)	2-nitropropane	5.691	43	108051	78.9640230 ppb		100
118)	METHYL METHACRYLATE	5.061	41	405072	81.0595498 ppb		95
119)	1,4-DIOXANE	5.119	88	103138	1439.5419177 ppb		100
120)	n-octane	5.364	85	92321	15.9685349 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	52104	146.9926144 ppb		88
123)	ETHYL METHACRYLATE	5.846	69	643010	88.5713166 ppb	#	81
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	172010	84.4361323 ppb		98
125)	Cyclohexanone	7.679	55	110434	153.1870744 ppb		98
126)	PENTACHLOROETHANE	7.875	117	360067	86.5063407 ppb		99
127)	Hexachloroethane	8.543	117	85979	17.3137685 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 24a.D
Acq On : 22 Oct 2014 4:14 am
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:01:53 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 25a.D
Acq On : 22 Oct 2014 4:32 am
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:02:45 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96)	AP9-PENTAFLUOROBENZENE	4.344	168	361242	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.672	114	674885	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.839	79	112838	40.0000000	ppb	# 0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.222	152	293499	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.	
4)	DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5)	CHLOROMETHANE	0.000	0	N.D. d	
6)	VINYL CHLORIDE	0.000	0	N.D.	
7)	1,3-BUTADIENE	0.000	0	N.D. d	
8)	BROMOMETHANE	0.000	0	N.D.	
9)	CHLOROETHANE	0.000	0	N.D.	
10)	TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11)	DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12)	ETHYL ETHER	0.000	0	N.D.	
13)	ACROLEIN	0.000	0	N.D.	
14)	1,1-DICHLOROETHENE	0.000	0	N.D.	
15)	1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16)	ACETONE	0.000	0	N.D. d	
17)	IODOMETHANE	0.000	0	N.D.	
18)	CARBON DISULFIDE	0.000	0	N.D. d	
19)	METHYLENE CHLORIDE	0.000	0	N.D. d	
20)	ACRYLONITRILE	0.000	0	N.D. d	
21)	n-Hexane	0.000	0	N.D. d	
22)	TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23)	METHYL TERT-BUTYL ETHER	0.000	0	N.D. 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\102114a\
Data File : 1021 25a.D
Acq On : 22 Oct 2014 4:32 am
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:02:45 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
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.	
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.	
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.	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\102114a\
Data File : 1021 25a.D
Acq On : 22 Oct 2014 4:32 am
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:02:45 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration

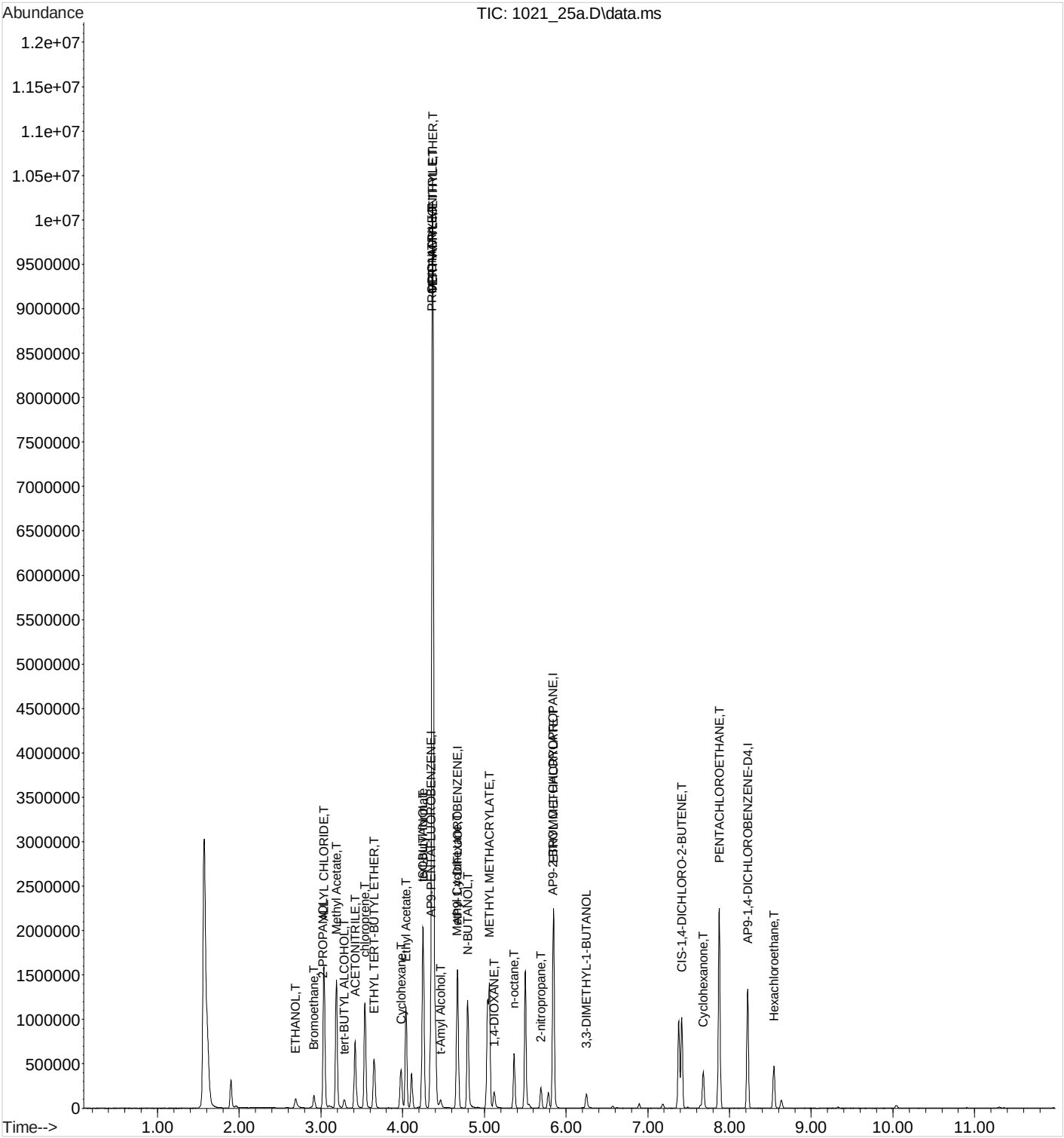
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.688	45	133909	1728.7504551 ppb	#	98
98)	Bromoethane	2.914	108	95531	19.2217720 ppb		97
99)	2-PROPANOL	3.026	45	31269	93.0997688 ppb		98
100)	Methyl Acetate	3.190	43	1475768	407.5188518 ppb	#	99
101)	ACETONITRILE	3.418	41	687100	996.6279491 ppb		99
102)	ALLYL CHLORIDE	3.036	76	339827	100.0180498 ppb		98
103)	tert-BUTYL ALCOHOL	3.283	59	89776	84.9344968 ppb	#	92
104)	chloroprene	3.537	53	593737	101.2008497 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.650	59	409027	20.6423446 ppb		97
106)	PROPIONITRILE	4.360	54	798462	1023.5215869 ppb		99
107)	Ethyl Acetate	4.042	43	1032819	210.9716868 ppb		100
108)	METHACRYLONITRILE	4.367	67	2559897	1028.6515140 ppb		100
109)	Cyclohexane	3.981	84	163964	19.0868225 ppb		97
110)	tert-butyl formate	4.248	59	838290	216.4571019 ppb		98
111)	ISOBUTANOL	4.248	41	630509	2052.6122589 ppb	#	98
112)	t-Amyl Alcohol	4.463	59	40354	104.3351966 ppb		98
113)	TERT-AMYL METHYL ETHER	4.370	73	359148	20.0252798 ppb	#	99
115)	N-BUTANOL	4.795	56	596305	3838.3216226 ppb		99
116)	Methyl Cyclohexane	4.666	83	206742	18.3753105 ppb		96
117)	2-nitropropane	5.692	43	140286	106.7684009 ppb		95
118)	METHYL METHACRYLATE	5.061	41	492101	102.5543629 ppb		94
119)	1,4-DIOXANE	5.119	88	117184	1703.3420135 ppb		95
120)	n-octane	5.364	85	111459	20.0774080 ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	71518	210.1201685 ppb		93
123)	ETHYL METHACRYLATE	5.846	69	772678	107.4992113 ppb	#	76
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	204034	101.1599341 ppb		94
125)	Cyclohexanone	7.679	55	151844	212.7395874 ppb		96
126)	PENTACHLOROETHANE	7.875	117	401786	97.4968936 ppb		99
127)	Hexachloroethane	8.544	117	97419	19.8140950 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 25a.D
Acq On : 22 Oct 2014 4:32 am
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:02:45 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 14:55:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:17:47 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	384879	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	740327	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	115367	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	322974	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	384879	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	740327	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	115367	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	322974	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	207080	38.6095279 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.52%		
46) a,a,a-Trifluorotoluene	5.039	146	414403	41.4970280 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.74%		
50) TOLUENE-D8	5.502	98	934562	39.7080212 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.27%		
68) 4-BROMOFLUOROBENZENE	7.380	95	340456	39.8169226 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.54%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -6722854		No Calib	
3) PROPENE	1.666	41	512	0.6466135 ppb #	16
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.123	43	4576	2.6549983 ppb	97
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.772	76	563	0.0246694 ppb #	1
19) METHYLENE CHLORIDE	3.106	84	2942	0.3455916 ppb	92
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	0.000		0	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	4.103	72	520	0.7218323 ppb #	1
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.103	42	1253	0.7437141 ppb #	76
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:17:47 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 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.	
38) HEPTANE	0.000		0	N.D.	
39) BENZENE	4.344	78	566	0.0184059 ppb #	1
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	4.659	130	1044	0.1399140 ppb #	58
43) 1,2-DICHLOROPROPANE	5.036	62	8153	1.5403368 ppb #	24
44) DIBROMOMETHANE	5.036	93	1374	0.3509408 ppb #	7
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.534	91	587	0.0180125 ppb #	21
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.627	106	818	0.0638161 ppb	92
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.376	77	1852	0.1187449 ppb #	31
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.460	91	608	0.0152119 ppb #	59
74) 4-ETHYLTOLUENE	7.527	105	1986	0.0610061 ppb	98
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.888	105	1755	0.0627617 ppb #	78
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.370	105	500	0.0159206 ppb #	34
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.225	91	949	0.0327603 ppb #	32
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.035	128	2535	0.1265876 ppb #	71
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.904	142	2223	0.1893156 ppb #	93
95) 2-Methylnaphthalene	11.039	142	681	0.0707353 ppb #	56

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:17:47 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

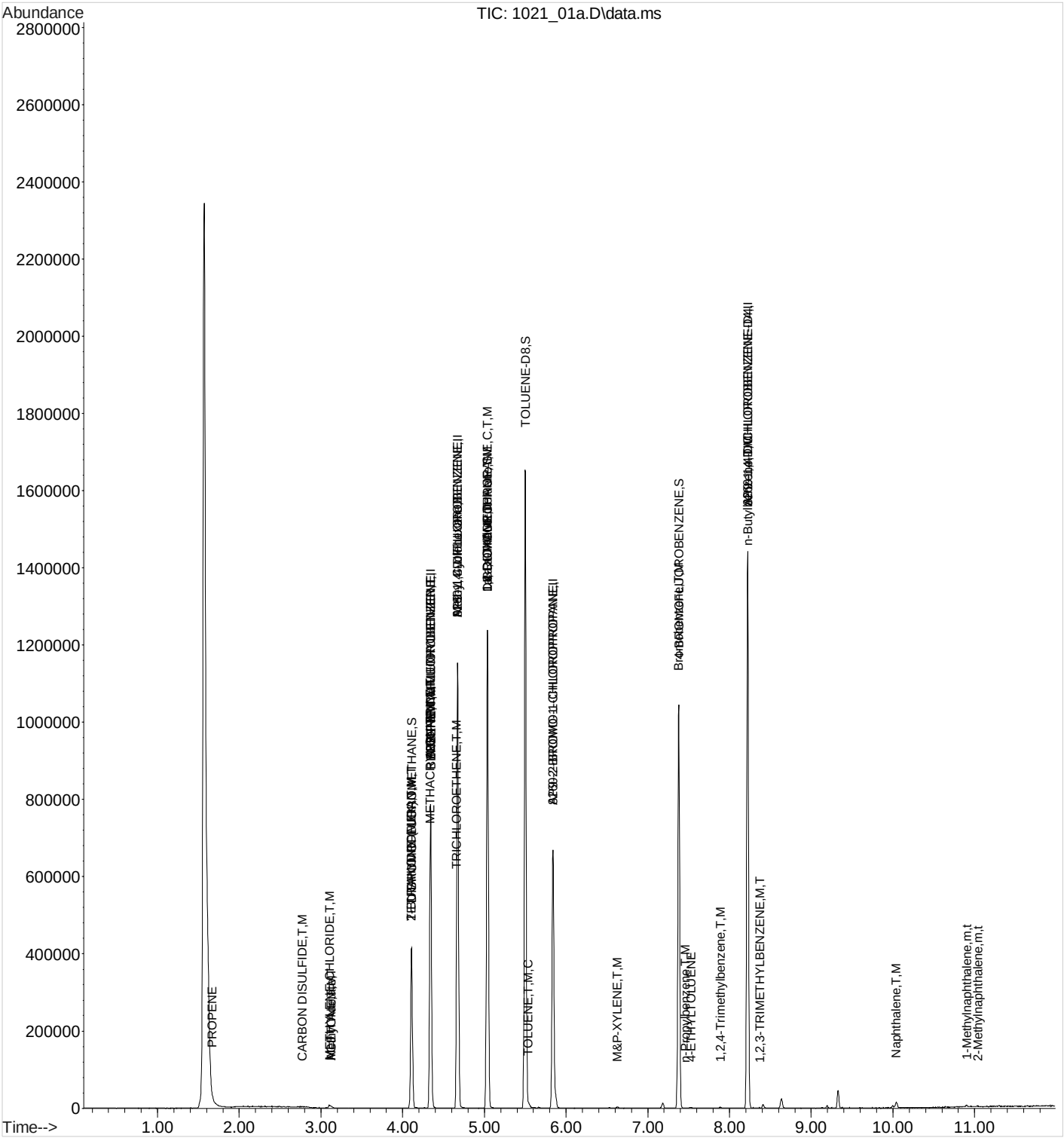
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.123	43	4576	1.2167134 ppb #	50
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.335	67	1047	0.4075233 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.341	73	531	0.0281765 ppb #	1
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.672	83	10455	0.1859959 ppb #	43
117)	2-nitropropane	0.000		0	N.D.	
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	5.036	88	5438	83.4375011 ppb #	26
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\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:17:47 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:17:47 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	384879	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	740327	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.839	79	115367	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	322974	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	384879	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	740327	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.839	79	115367	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.222	152	322974	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	207080	38.6095279 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.52%		
46) a,a,a-Trifluorotoluene	5.039	146	414403	41.4970280 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.74%		
50) TOLUENE-D8	5.502	98	934562	39.7080212 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.27%		
68) 4-BROMOFLUOROBENZENE	7.380	95	340456	39.8169226 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.54%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -6722854		No Calib	
3) PROPENE	1.666	41	512	0.6466135 ppb #	16
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.123	43	4576	2.6549983 ppb	97
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.772	76	563	0.0246694 ppb #	1
19) METHYLENE CHLORIDE	3.106	84	2942	0.3455916 ppb	92
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	0.000		0	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	4.103	72	520	0.7218323 ppb #	1
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.103	42	1253	0.7437141 ppb #	76
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:17:47 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 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.	
38) HEPTANE	0.000		0	N.D.	
39) BENZENE	4.344	78	566	0.0184059 ppb #	1
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	4.659	130	1044	0.1399140 ppb #	58
43) 1,2-DICHLOROPROPANE	5.036	62	8153	1.5403368 ppb #	24
44) DIBROMOMETHANE	5.036	93	1374	0.3509408 ppb #	7
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.534	91	587	0.0180125 ppb #	21
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.627	106	818	0.0638161 ppb	92
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.376	77	1852	0.1187449 ppb #	31
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.460	91	608	0.0152119 ppb #	59
74) 4-ETHYLTOLUENE	7.527	105	1986	0.0610061 ppb	98
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.888	105	1755	0.0627617 ppb #	78
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.370	105	500	0.0159206 ppb #	34
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.225	91	949	0.0327603 ppb #	32
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.035	128	2535	0.1265876 ppb #	71
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.904	142	2223	0.1893156 ppb #	93
95) 2-Methylnaphthalene	11.039	142	681	0.0707353 ppb #	56

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:17:47 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 2014
Response via : Initial Calibration

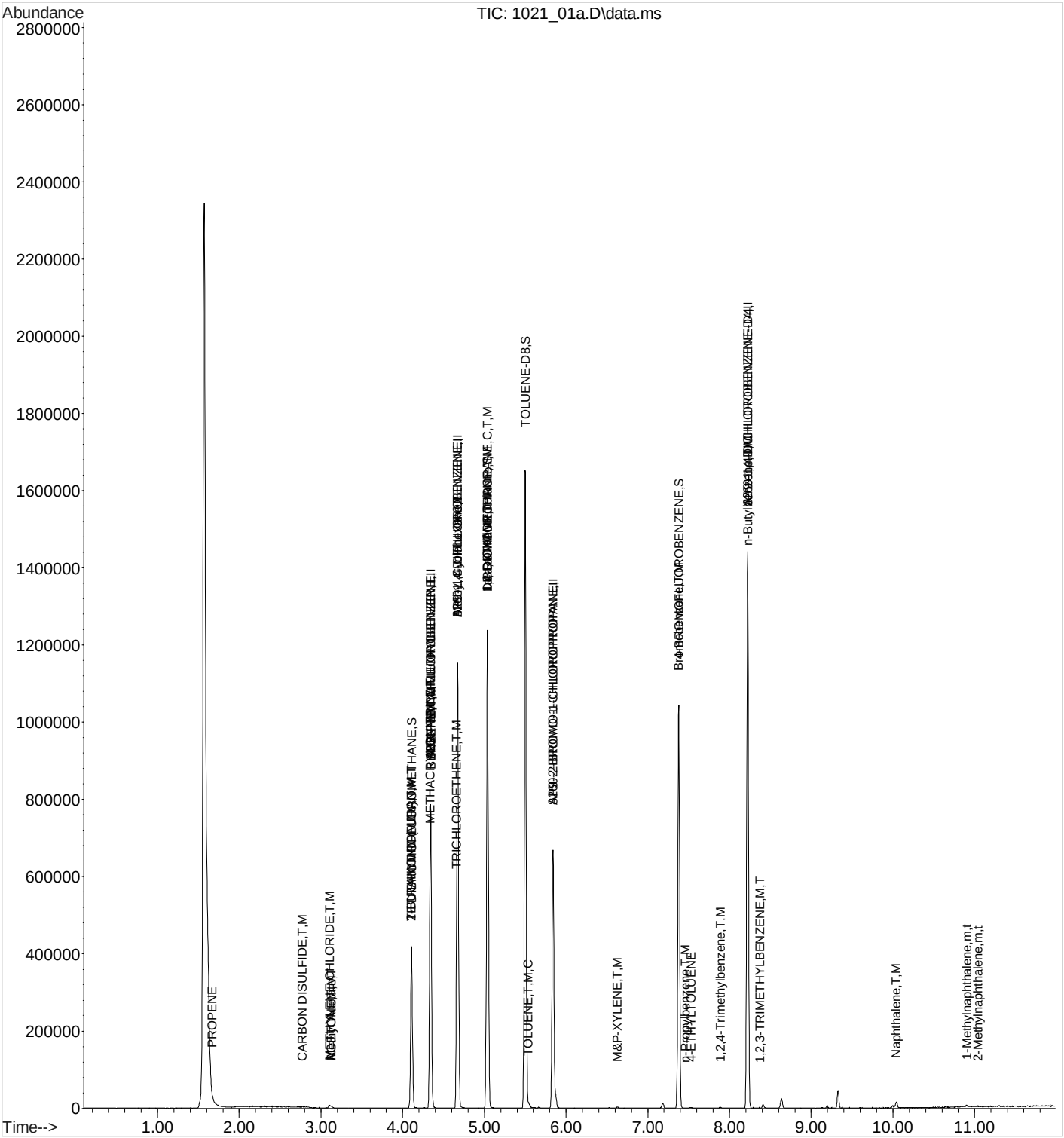
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.123	43	4576	1.2167134 ppb #	50
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.335	67	1047	0.4075233 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.341	73	531	0.0281765 ppb #	1
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.672	83	10455	0.1859959 ppb #	43
117)	2-nitropropane	0.000		0	N.D.	
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	5.036	88	5438	83.4375011 ppb #	26
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\102114a\
Data File : 1021 01a.D
Acq On : 21 Oct 2014 9:14 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Oct 22 15:17:47 2014
Quant Method : C:\MSDchem\1\methods\V820J21N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Wed Oct 22 15:05:08 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: L729564

C10-C40 Oil Range by Method 8015
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751233**
Analysis Date:	10/29/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/28/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG751233**
Description: **Diesel and Oil Ranges by Method 8015 (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-01 1x	10/23/2014	10/29/2014	10/29/2014
L729564-02 1x	10/23/2014	10/29/2014	10/29/2014
L729564-04 1x	10/23/2014	10/29/2014	10/29/2014
L729564-05 1x	10/23/2014	10/29/2014	10/29/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751233**
Analysis Date:	10/29/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/28/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
SVGC16	Blank WG751233	Blank WG751233	1029_06.D	10/29/2014	9:33 AM
SVGC16	LCS WG751233	LCS WG751233	1029_07.D	10/29/2014	9:45 AM
SVGC16	LCSD WG751233	LCSD WG751233	1029_08.D	10/29/2014	9:57 AM
SVGC16	TU904-SB05-NS01	L729564-01	1029_14.D	10/29/2014	11:11 AM
SVGC16	TU904-SB05-NS02	L729564-02	1029_15.D	10/29/2014	11:23 AM
SVGC16	TU904-SB08-NS01	L729564-04	1029_16.D	10/29/2014	11:36 AM
SVGC16	TU904-SB08-NS02	L729564-05	1029_17.D	10/29/2014	11:48 AM
SVGC16	MS WG751233	MS WG751233	1029_29.D	10/29/2014	2:16 PM
SVGC16	MSD WG751233	MSD WG751233	1029_30.D	10/29/2014	2:28 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751233**
Analysis Date:	10/29/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/28/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
C10-C28 Diesel Range		< 4.00	1.67	
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	46.890	78.2	50 - 100	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	60	49.101	81.8	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	46.890	78.2	49.101	81.8	50 - 100		4.61	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	C28-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751233**
Analysis Date:	10/29/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/28/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729568-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
C10-C28 Diesel Range	1	74.7	<1.61	58.727	77.5	57.059	75.2	50 - 100		2.88	20	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751233**
Analysis Date:	10/29/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/28/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	o-Terphenyl ppm	o-Terphenyl % Rec
L729564-01	SVGC16	1029_14	0.623	77.8
L729564-02	SVGC16	1029_15	0.628	78.5
L729564-04	SVGC16	1029_16	0.595	74.4
L729564-05	SVGC16	1029_17	0.581	72.6
BLANK WG751233	SVGC16	1029_06	0.570	71.2
LCS WG751233	SVGC16	1029_07	0.614	76.7
LCSD WG751233	SVGC16	1029_08	0.666	83.2
MS WG751233	SVGC16	1029_29	0.637	79.6
MSD WG751233	SVGC16	1029_30	0.587	73.4

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	: 10/29/14 0850	ICal Method	: EPHMOD
Lab File ID	: 1029_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		1.340694E+09	3000	0	0	446898	105		
C28-C40 Oil Range		6237023		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	20.53088	103	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
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ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/29/14 0902	ICal Method	: EPHMOD
Lab File ID	: 1029_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		4.588127E+08	2000	0	0	229406.4	107		

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
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ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/29/14 1225	ICal Method	: EPHMOD
Lab File ID	: 1029_20	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		1.328319E+09	3000	0	0	442773	104		
C28-C40 Oil Range		0		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	20.55552	103	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
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ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/29/14 1237	ICal Method	: EPHMOD
Lab File ID	: 1029_21	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		4.019539E+08	2000	0	0	200976.9	93.3		

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
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ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/29/14 1542	ICal Method	: EPHMOD
Lab File ID	: 1029_36	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		1.443087E+09	3000	0	0	481029	113		
C28-C40 Oil Range		1.528295E+07		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	22.40515	112	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/29/14 1554	ICal Method	: EPHMOD
Lab File ID	: 1029_37	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		4.226493E+08	2000	0	0	211324.7	98.5		

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

Raw Data

EPH SS Extractions Benchsheet

Batch #: WG751233

Analyst: MTJ647 **Prep Start Date/Time:** 10/28/14 18:45:47 **Prep End Date/Time:** 10/29/14 07:38:34

Na2SO4: 14I15522 Amt. Used: 1 Exp. Date:03/15/15 **MeCl2:** 14J23413 Amt. Used: 25 Exp. Date:04/23/15 **Silica Gel:** Exp. Date:

Surrogate: 14J28695 Amt. Used: 0.50 mL Exp. Date:11/22/14 **LCS/MS Spike:** 14J28699 Amt. Used: 0.50 mL Exp. Date:04/13/15

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(L729568-02)		12.5	Dirt	25	0.5	Colorless	
MSD(L729568-02)		12.5	Dirt	25	0.5	Colorless	
1. L729563-01		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
2. L729563-02		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
3. L729563-04		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
4. L729563-05		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
5. L729563-06		12.5	Clay	25	0.5	Colorless	EDD/QC4/DOD
6. L729564-01		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
7. L729564-02		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
8. L729564-04		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
9. L729564-05		12.5	Mud	25	0.5	Colorless	EDD/QC4/DOD
10. L729566-01		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
11. L729566-02		12.5	Clay	25	0.5	Colorless	EDD/QC4/DOD
12. L729566-03		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
13. L729566-05		12.5	Dirt	25	0.5	Brown	EDD/QC4/DOD

14. L729566-06		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
15. L729568-01		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
16. L729568-02		12.5	Dirt	25	0.5	Colorless	MS/MSD this sample. EDD/QC4/DOD
17. L729568-04		12.5	Dirt	25	0.5	Colorless	EDD/QC4/DOD
18. L729568-05		12.5	Sludge	25	0.5	Yellow	EDD/QC4/DOD

Comments:
*Dro Spike used due to request*DOD syringe ESC25485 EXT

Reviewed By:CLG543 on 10/29/14 07:38:33

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 4:11:20 PM
Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1029_01	INSTBLK	LA16J23N						1	1	10/29/14 0826	" "
2	1029_02	LOC FL 14J160051	LA16J23N						1	1	10/29/14 0838	" "
3	1029_03	ICV DRO 3000 PPM 14J16089	LA16J23N						1	1	10/29/14 0850	" "
4	1029_04	ICV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/29/14 0902	" "
5	1029_05	MECL2	LA16J23N						1	1	10/29/14 0914	" "
6	1029_06	BLANK	LA16J23N	WG751233	DRORLA	SS			1	0.04	10/29/14 0933	"soil sur14J28695/ 14J28699"
7	1029_07	LCS	LA16J23N	WG751233	DRORLA	SS			1	0.04	10/29/14 0945	"soil sur14J28695/ 14J28699"
8	1029_08	LCSD	LA16J23N	WG751233	DRORLA	SS			1	0.04	10/29/14 0957	"soil sur14J28695/ 14J28699"
9	1029_09	L729563-01	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1009	"soil sur14J28695/ 14J28699"
10	1029_10	L729563-02	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1022	"soil sur14J28695/ 14J28699"
11	1029_11	L729563-04	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1034	"soil sur14J28695/ 14J28699"
12	1029_12	L729563-05	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1046	"soil sur14J28695/ 14J28699"
13	1029_13	L729563-06	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1059	"soil sur14J28695/ 14J28699"
14	1029_14	L729564-01	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1111	"soil sur14J28695/ 14J28699"
15	1029_15	L729564-02	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1123	"soil sur14J28695/ 14J28699"
16	1029_16	L729564-04	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1136	"soil sur14J28695/ 14J28699"
17	1029_17	L729564-05	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1148	"soil sur14J28695/ 14J28699"
18	1029_18	L729566-01	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1200	"soil sur14J28695/ 14J28699"
19	1029_19	INSTBLK	LA16J23N						1	1	10/29/14 1212	" "
20	1029_20	CCV DRO 3000 PPM 14J16089	LA16J23N						1	1	10/29/14 1225	" "

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 4:11:20 PM
Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
21	1029_21	CCV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/29/14 1237	" "
22	1029_22	MECL2	LA16J23N						1	1	10/29/14 1249	" "
23	1029_23	L729566-02	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1302	"soil sur14J28695/ 14J28699"
24	1029_24	L729566-03	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1314	"soil sur14J28695/ 14J28699"
25	1029_25	L729566-05	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1326	"soil sur14J28695/ 14J28699"
26	1029_26	L729566-06	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1339	"soil sur14J28695/ 14J28699"
27	1029_27	L729568-01	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1351	"soil sur14J28695/ 14J28699"
28	1029_28	L729568-02	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1403	"soil sur14J28695/ 14J28699"
29	1029_29	MS	LA16J23N	WG751233	DRORLA	SS			1	0.04	10/29/14 1416	"soil sur14J28695/ 14J28699"
30	1029_30	MSD	LA16J23N	WG751233	DRORLA	SS			1	0.04	10/29/14 1428	"soil sur14J28695/ 14J28699"
31	1029_31	L729568-04	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1440	"soil sur14J28695/ 14J28699"
32	1029_32	L729568-05	LA16J23N	WG751233	DRORLA	SS	URSTAZ	NM	1	0.04	10/29/14 1453	"soil sur14J28695/ 14J28699"
33	1029_33	L729030-02	LA16J23N	WG750212	DRORLA	SS	URSTAZ	NM	20	0.8	10/29/14 1505	"soil sur14J28695/ 14J09772"
34	1029_34	L729032-02	LA16J23N	WG750212	DRORLA	SS	URSTAZ	NM	20	0.8	10/29/14 1517	"soil sur14J28695/ 14J09772"
35	1029_35	INSTBLK	LA16J23N						1	1	10/29/14 1530	" "
36	1029_36	CCV DRO 3000 PPM 14J16089	LA16J23N						1	1	10/29/14 1542	" "
37	1029_37	CCV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/29/14 1554	" "

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 03.D Vial: 3
Acq On : 10-29-2014 08:50:29 AM Operator: 543
Sample : ICV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 09:28:46 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	9946632	20.5308814	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 102654.41%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1340694096	3146.0960565	ppm	
2) h,m C28-C40 Oil Range	5.93	6237023	N.D.	ppm	

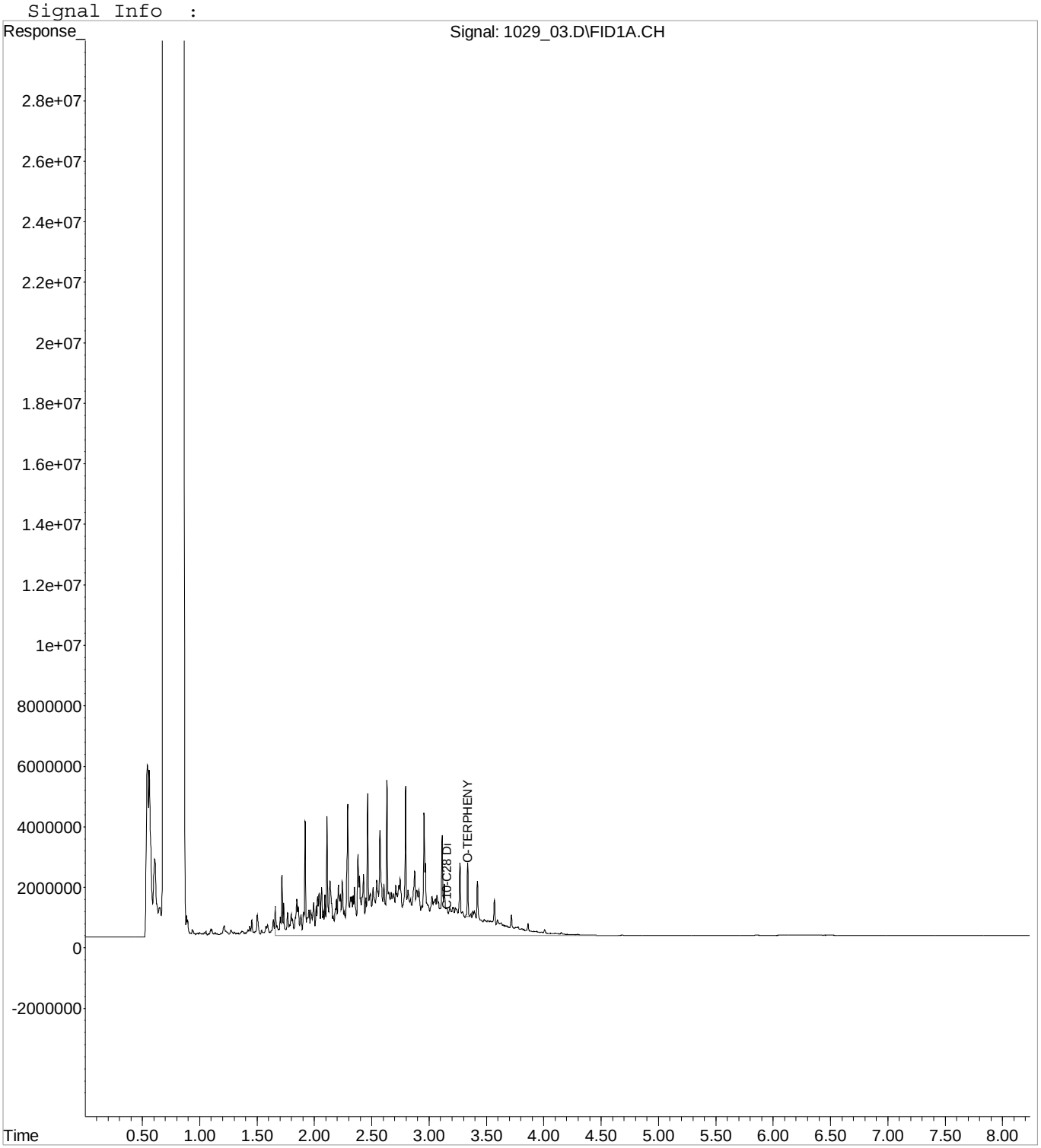
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 03.D Vial: 3
Acq On : 10-29-2014 08:50:29 AM Operator: 543
Sample : ICV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 9:28 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\102914\1029 04.D Vial: 4
Acq On : 10-29-2014 09:02:44 AM Operator: 543
Sample : ICV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 09:29:04 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 : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

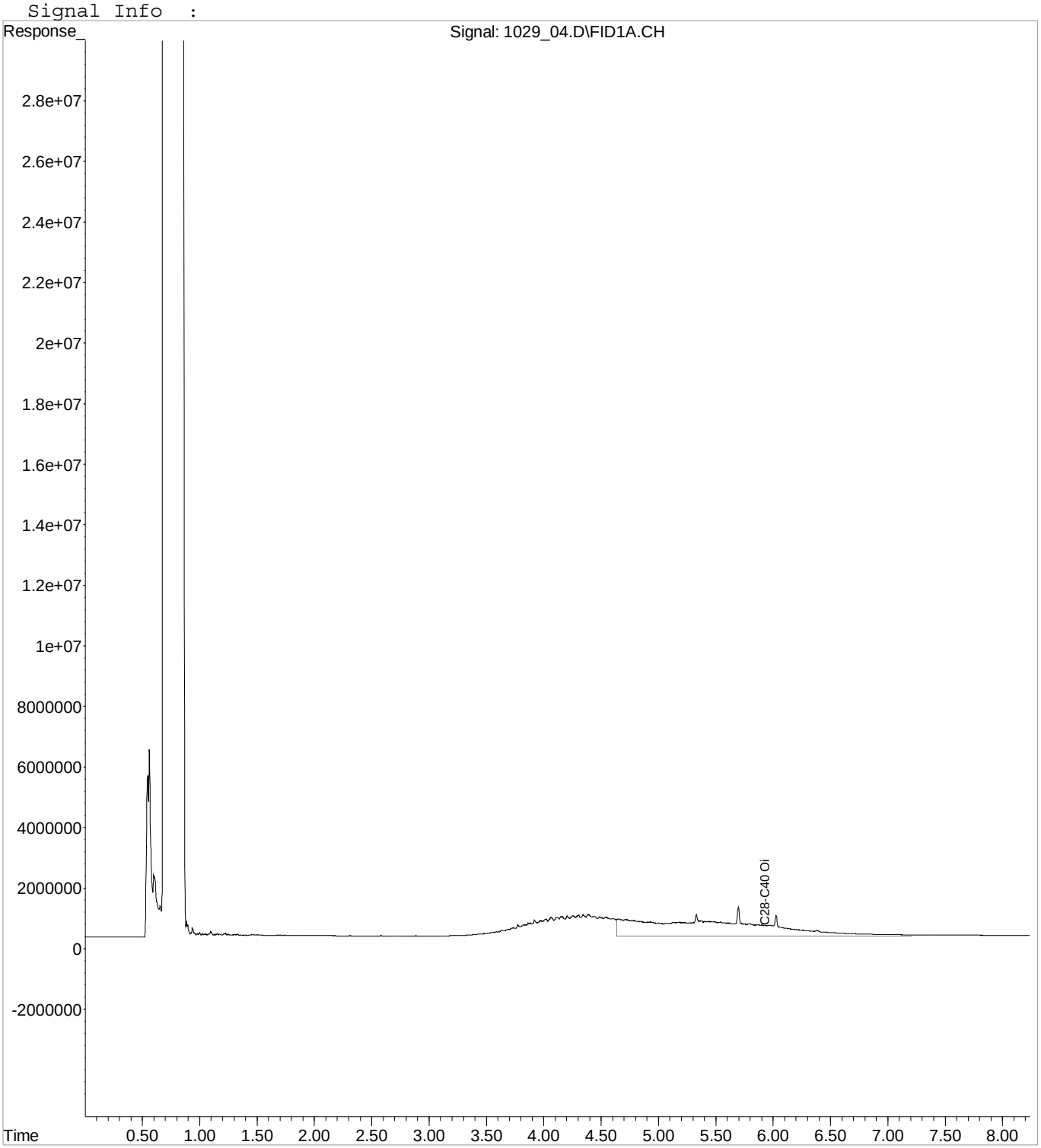
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	458812729	2149.3504885	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 04.D Vial: 4
Acq On : 10-29-2014 09:02:44 AM Operator: 543
Sample : ICV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 9:29 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\102914\1029 06.D Vial: 51
Acq On : 10-29-2014 09:33:02 AM Operator: 543
Sample : BLANK 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:03:56 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	6903099	0.5699485 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 71.24%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	30253132	2.1113081 ppm
2) h,m C28-C40 Oil Range	5.93	11521411	N.D. ppm

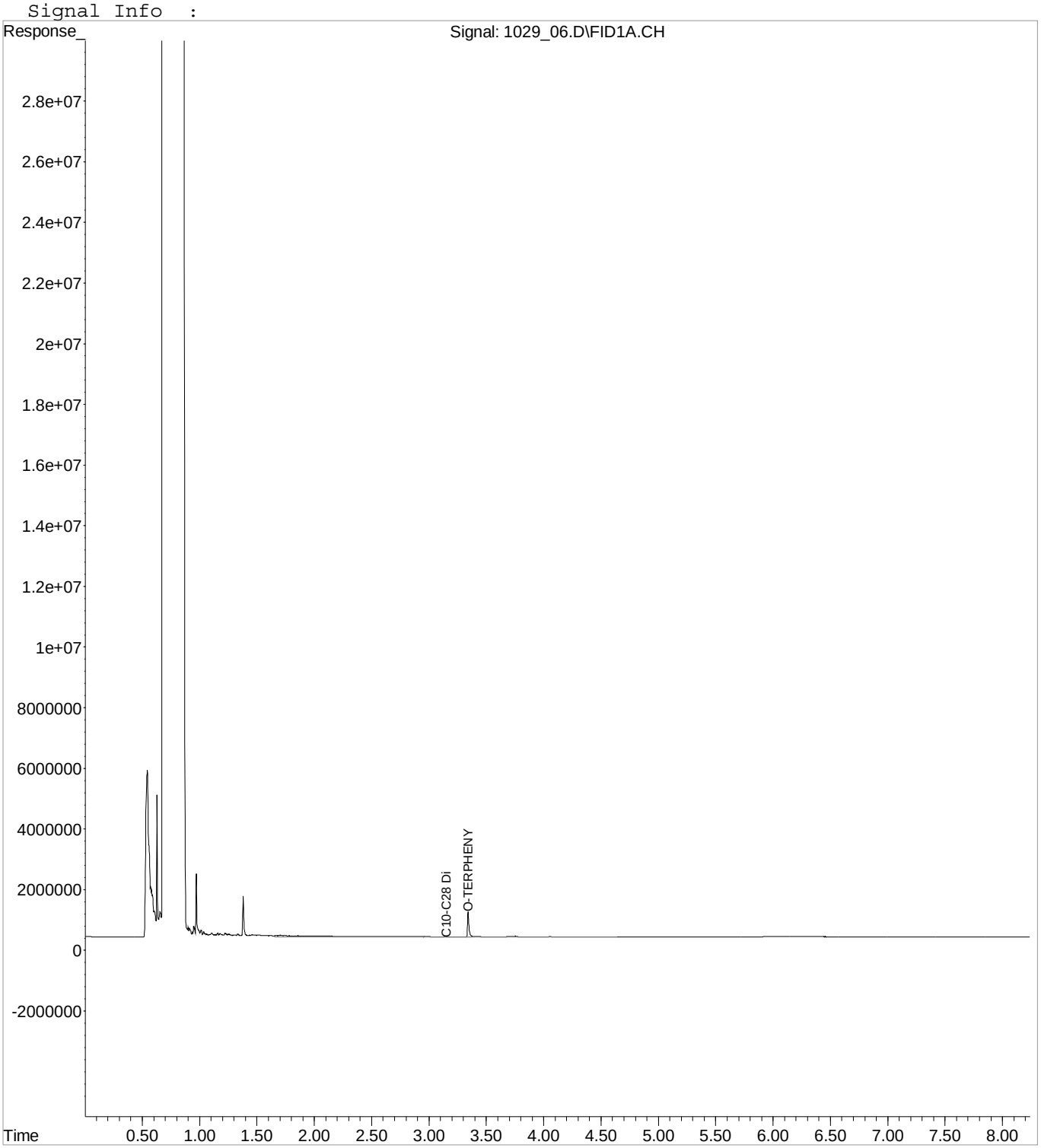
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 06.D Vial: 51
Acq On : 10-29-2014 09:33:02 AM Operator: 543
Sample : BLANK 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:11 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\102914\1029 07.D Vial: 52
Acq On : 10-29-2014 09:45:15 AM Operator: 543
Sample : LCS 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:03:57 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 :

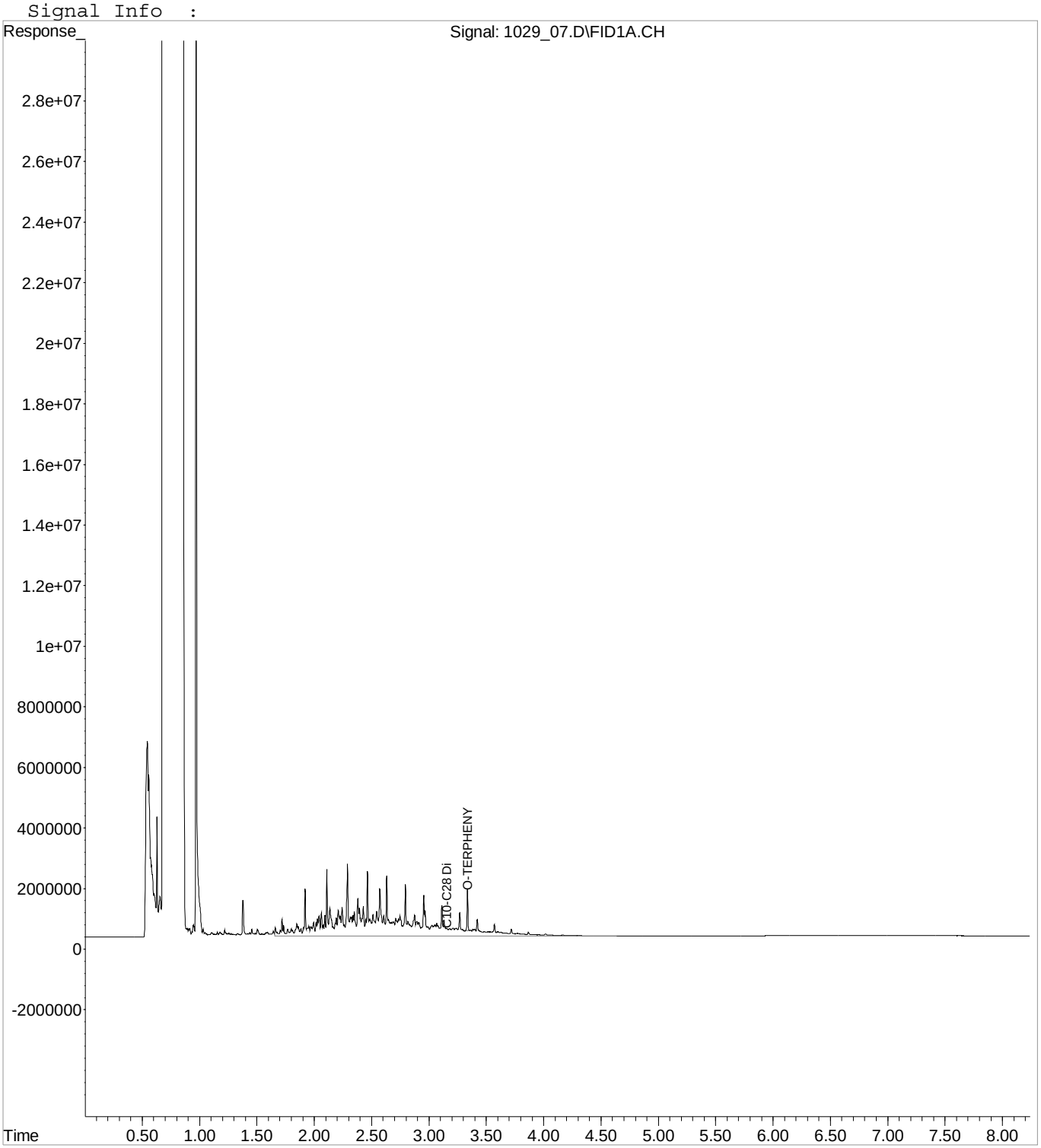
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	7434128	0.6137925	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 76.72%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	509167141	47.3306241	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 07.D Vial: 52
Acq On : 10-29-2014 09:45:15 AM Operator: 543
Sample : LCS 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:11 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\102914\1029 08.D Vial: 53
Acq On : 10-29-2014 09:57:32 AM Operator: 543
Sample : LCSD 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:03:58 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 :

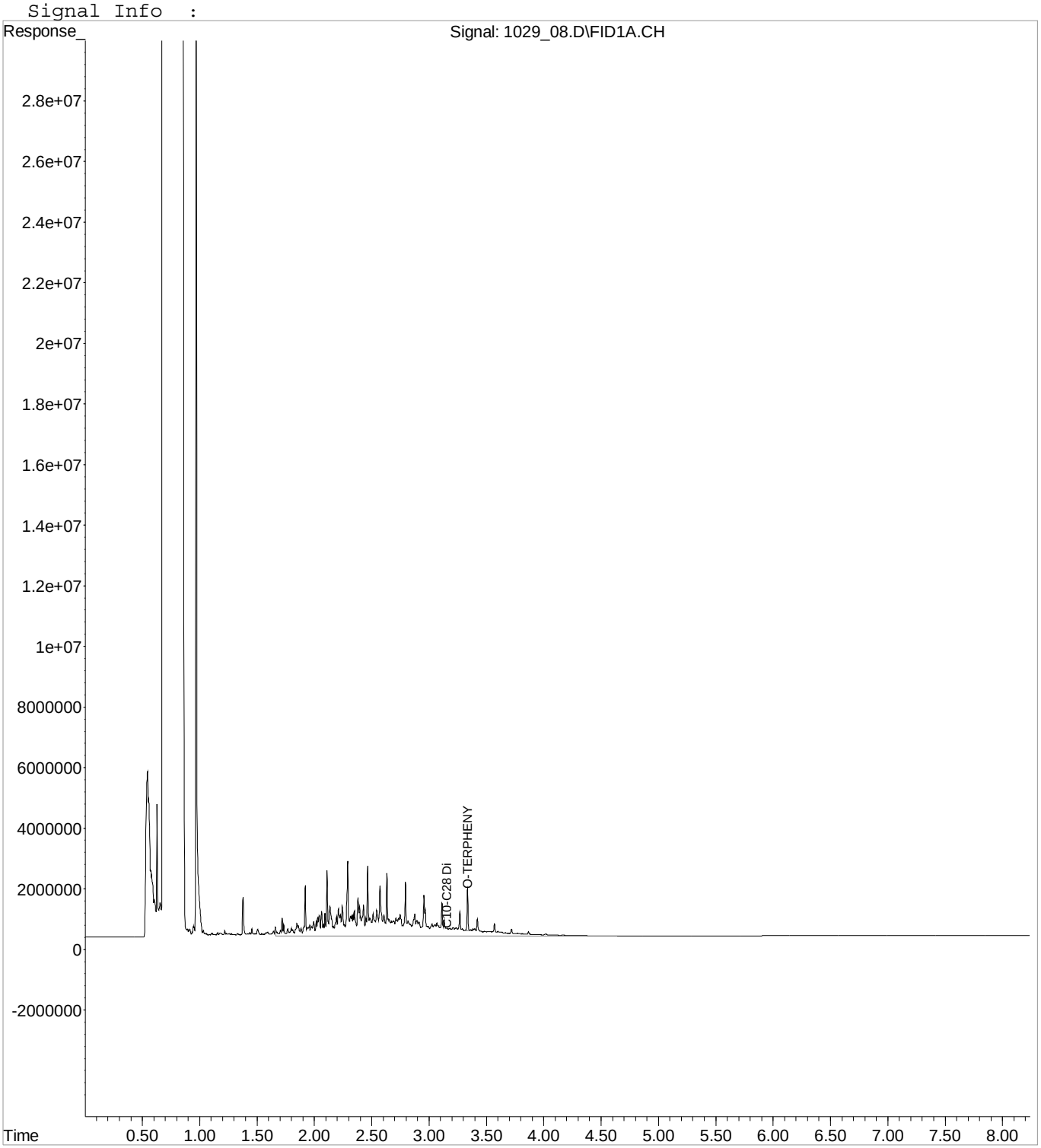
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	8064719	0.6658567	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 83.23%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	532578503	49.5411374	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 08.D Vial: 53
Acq On : 10-29-2014 09:57:32 AM Operator: 543
Sample : LCSD 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:11 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\102914\1029 14.D Vial: 59
Acq On : 29 Oct 2014 11:11 am Operator: 543
Sample : L729564-01 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:04:07 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	7540631	0.6225858 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 77.82%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	15459216	0.7144587 ppm
2) h,m C28-C40 Oil Range	5.93	12028907	N.D. ppm

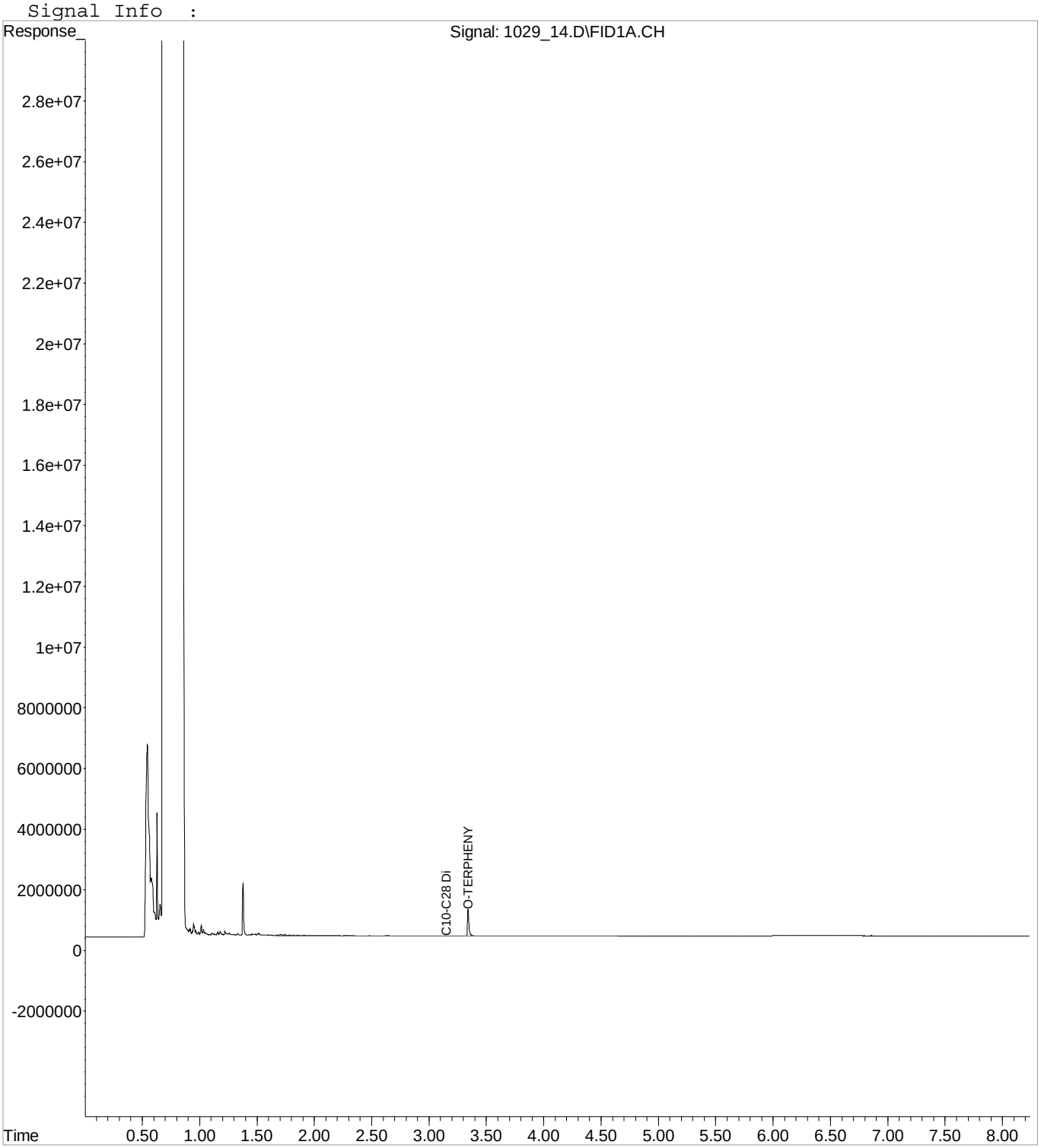
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 14.D Vial: 59
Acq On : 29 Oct 2014 11:11 am Operator: 543
Sample : L729564-01 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:20 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\102914\1029 15.D Vial: 60
Acq On : 29 Oct 2014 11:23 am Operator: 543
Sample : L729564-02 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:04:08 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 :

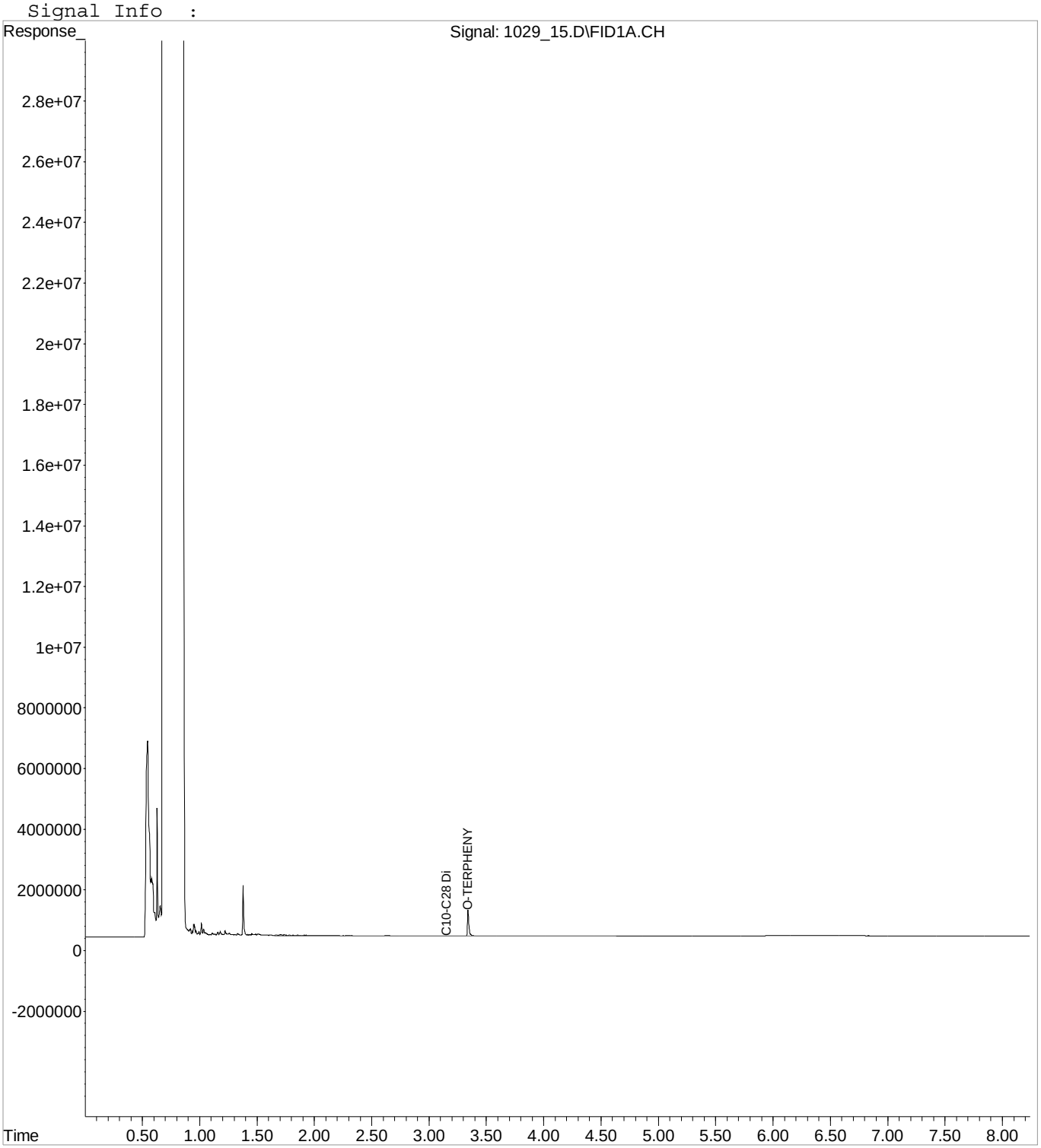
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	7605931	0.6279773 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 78.50%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	15489809	0.7173473 ppm
2) h,m C28-C40 Oil Range	5.93	12624014	N.D. ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 15.D Vial: 60
Acq On : 29 Oct 2014 11:23 am Operator: 543
Sample : L729564-02 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 13:19 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\102914\1029 16.D Vial: 61
Acq On : 29 Oct 2014 11:36 am Operator: 543
Sample : L729564-04 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:04:10 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	7211983	0.5954512 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 74.43%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	11491694	0.3398431 ppm
2) h,m C28-C40 Oil Range	5.93	12245102	N.D. ppm

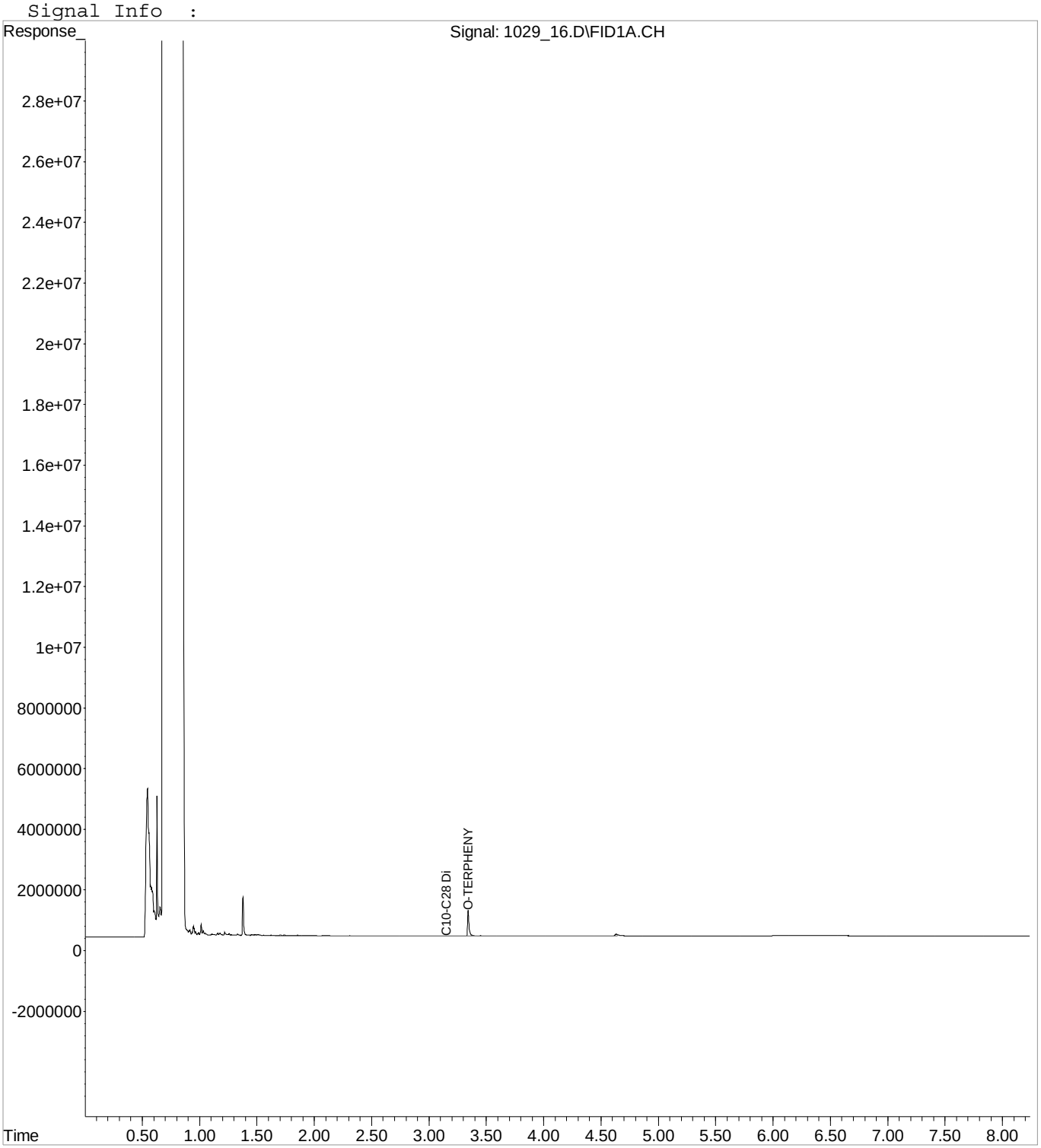
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 16.D Vial: 61
Acq On : 29 Oct 2014 11:36 am Operator: 543
Sample : L729564-04 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 13:19 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\102914\1029 17.D Vial: 62
Acq On : 29 Oct 2014 11:48 am Operator: 543
Sample : L729564-05 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 12:04:11 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	7038017	0.5810879 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 72.64%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	14838142	0.6558166 ppm
2) h,m C28-C40 Oil Range	5.93	11333483	N.D. ppm

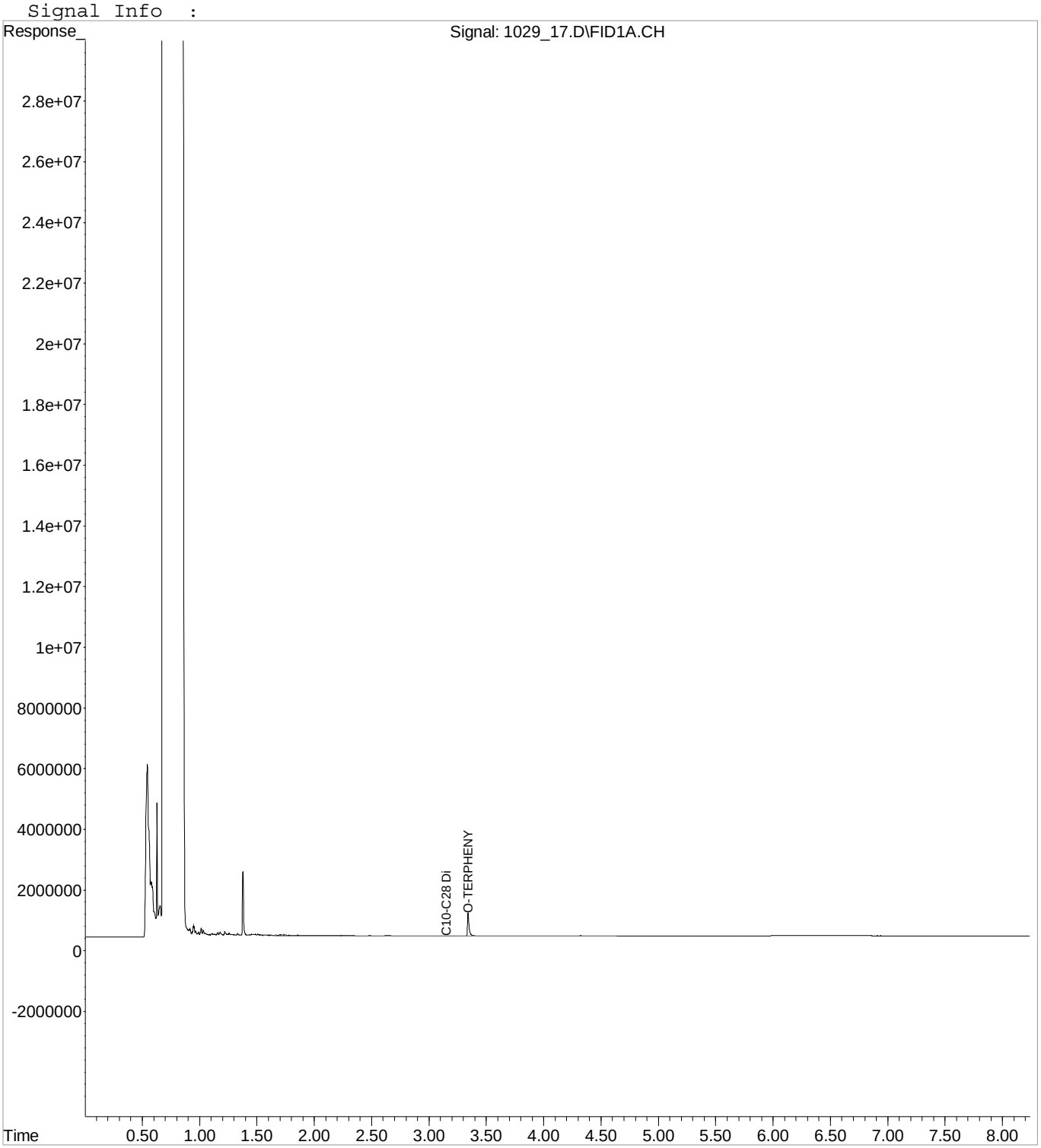
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 17.D Vial: 62
Acq On : 29 Oct 2014 11:48 am Operator: 543
Sample : L729564-05 1x WG751233 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 13:20 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\102914\1029 20.D Vial: 3
Acq On : 29 Oct 2014 12:25 pm Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 13:17:59 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 :

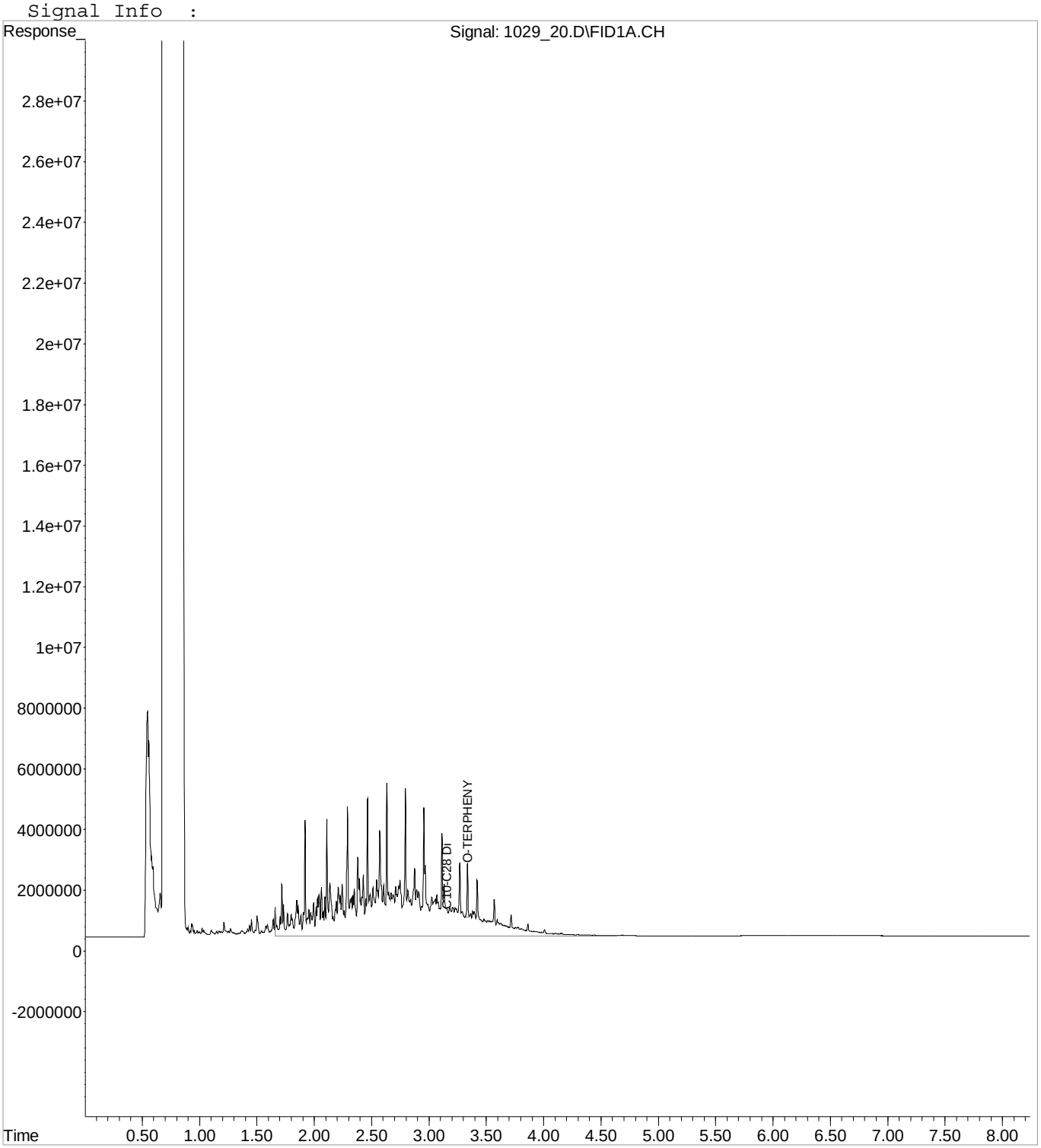
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	3.34	9958569	20.5555213	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 102777.61%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	3.16	1328319126	3116.8847746	ppm
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 20.D Vial: 3
Acq On : 29 Oct 2014 12:25 pm Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 13:18 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 : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 21.D Vial: 4
Acq On : 29 Oct 2014 12:37 pm Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 13:18:19 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	401953927	1866.0969735	ppm

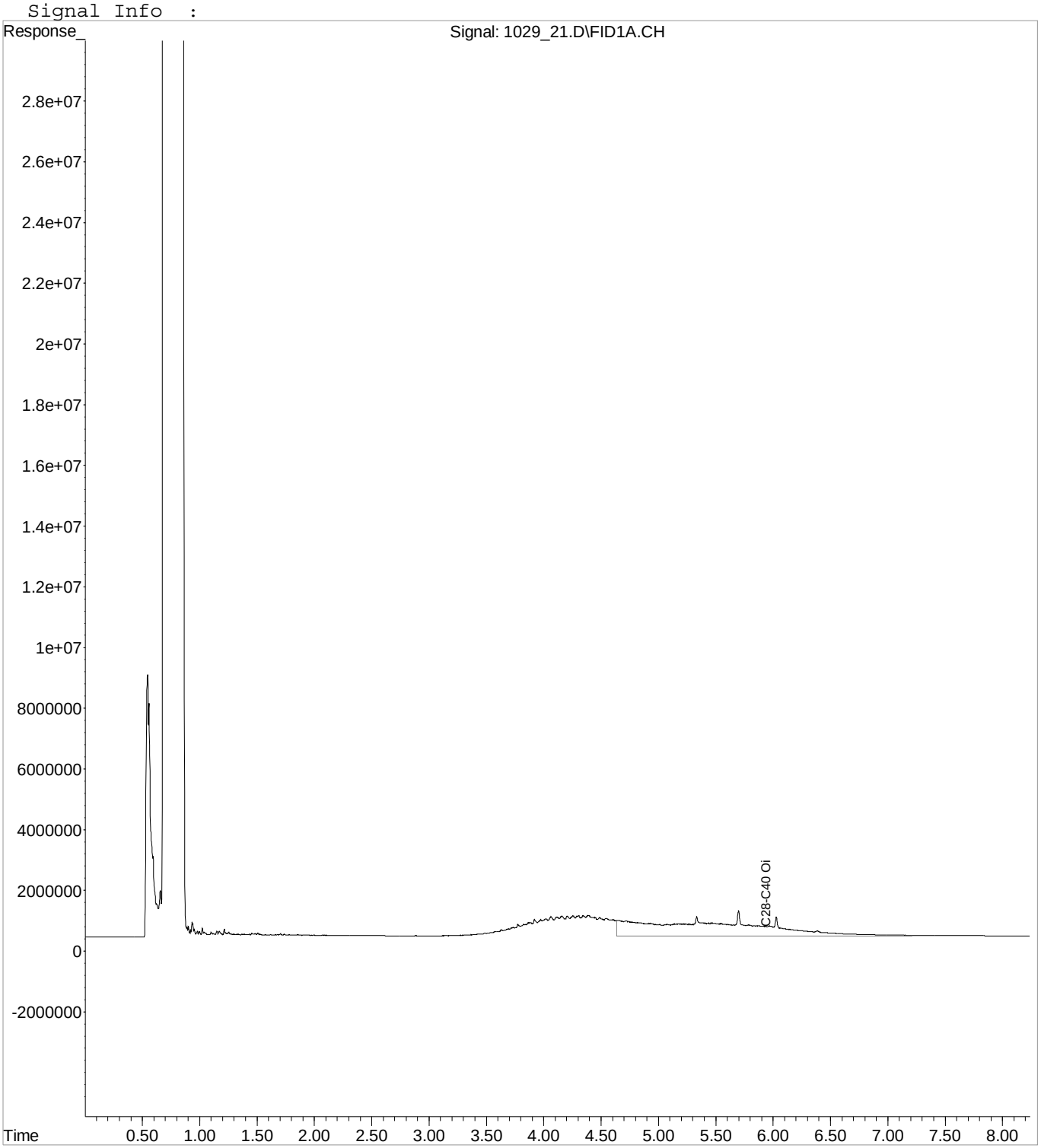
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 21.D Vial: 4
Acq On : 29 Oct 2014 12:37 pm Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 13:18 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 : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 29.D Vial: 70
Acq On : 10-29-2014 02:16:09 PM Operator: 543
Sample : MS 1x WG751233 L729568-02 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 14:34:53 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 :

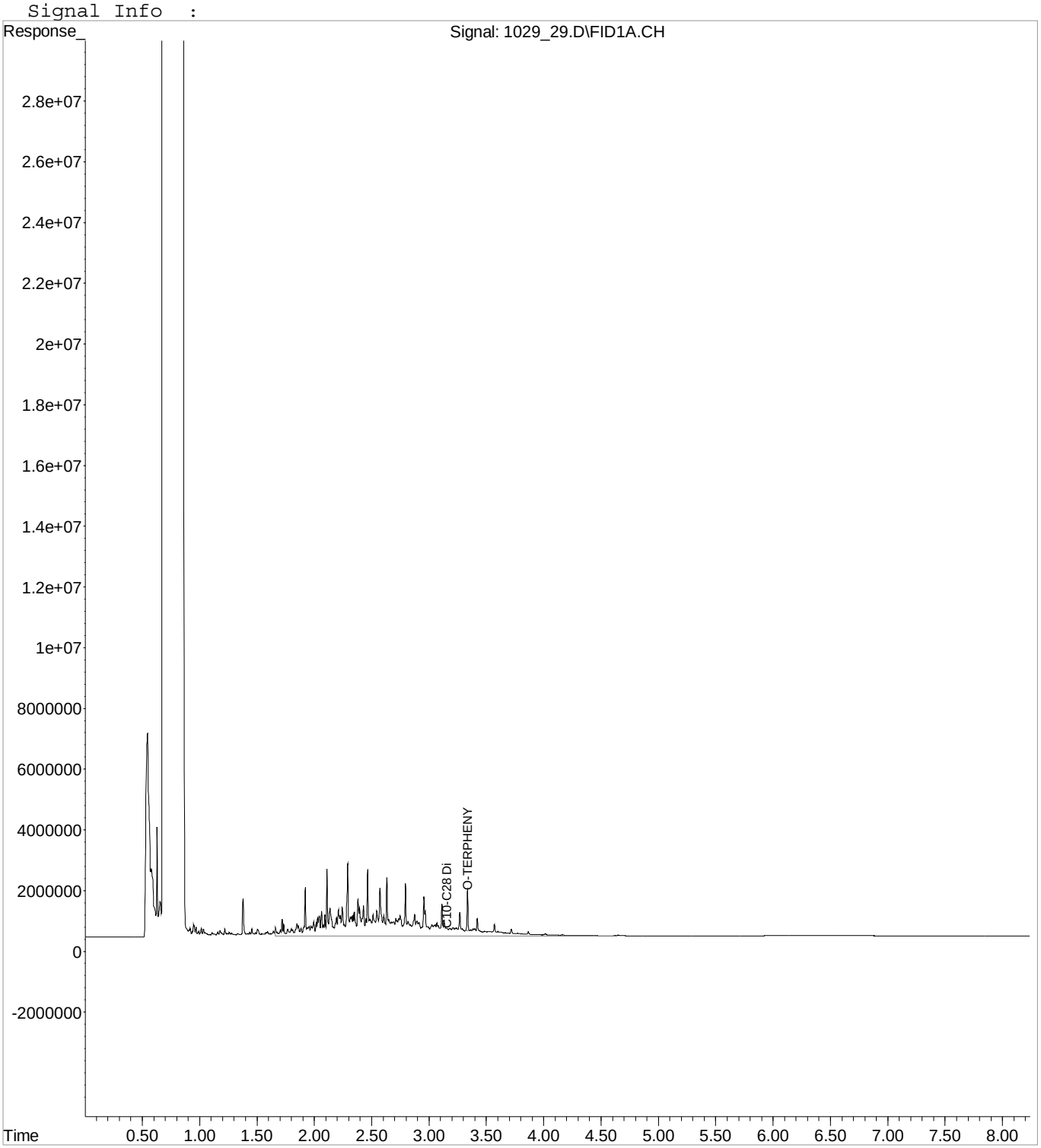
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	7711469	0.6366909	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 79.59%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	514641180	47.8474858	ppm	
2) h,m C28-C40 Oil Range	5.93	9783828	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 29.D Vial: 70
Acq On : 10-29-2014 02:16:09 PM Operator: 543
Sample : MS 1x WG751233 L729568-02 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 14:35 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\102914\1029 30.D Vial: 71
Acq On : 10-29-2014 02:28:25 PM Operator: 543
Sample : MSD 1x WG751233 L729568-02 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 15:23:33 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	7115083	0.5874508	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 73.43%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	500456725	46.5081820	ppm	
2) h,m C28-C40 Oil Range	5.93	10135287	N.D.	ppm	

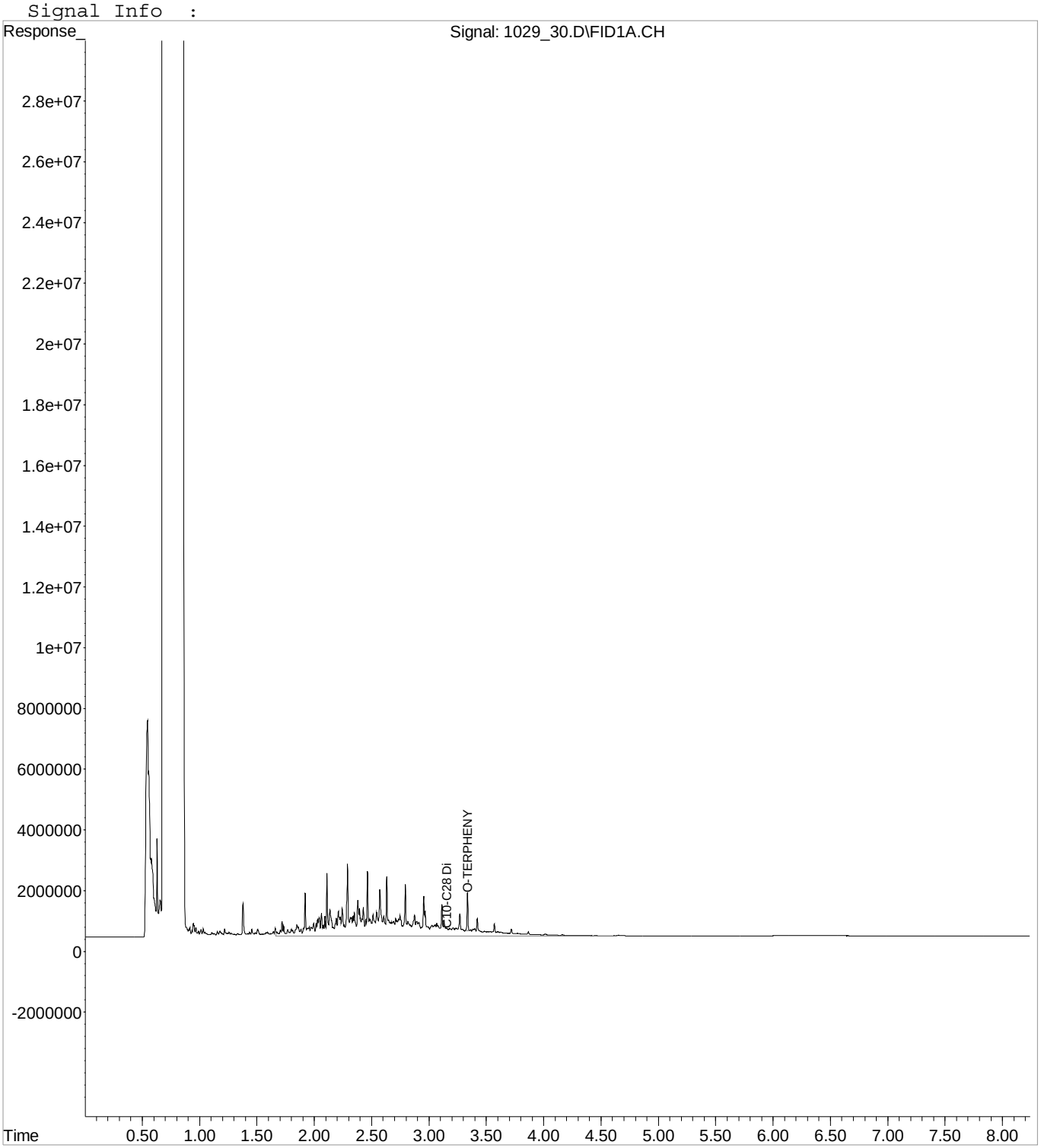
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 30.D Vial: 71
Acq On : 10-29-2014 02:28:25 PM Operator: 543
Sample : MSD 1x WG751233 L729568-02 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 29 15:23 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\102914\1029 36.D Vial: 3
Acq On : 10-29-2014 03:42:31 PM Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 15:51:31 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 :

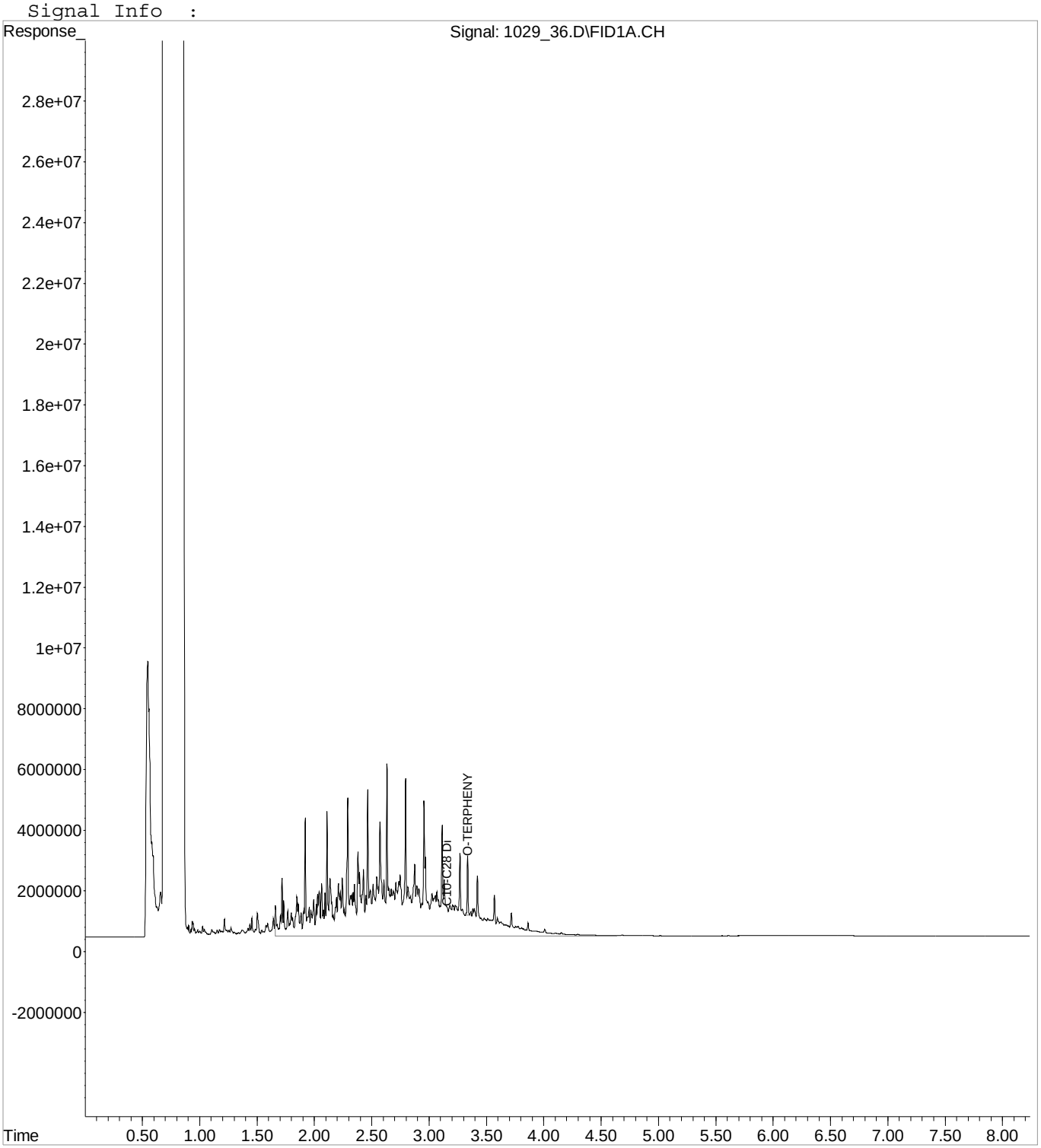
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	10854660	22.4051451	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 112025.73%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1443087109	3387.7961279	ppm	
2) h,m C28-C40 Oil Range	5.93	15282954	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 36.D Vial: 3
Acq On : 10-29-2014 03:42:31 PM Operator: 543
Sample : CCV DRO 3000 ppm 14J16089 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 15:51 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\102914\1029 37.D Vial: 4
Acq On : 10-29-2014 03:54:55 PM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 16:05:12 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 :

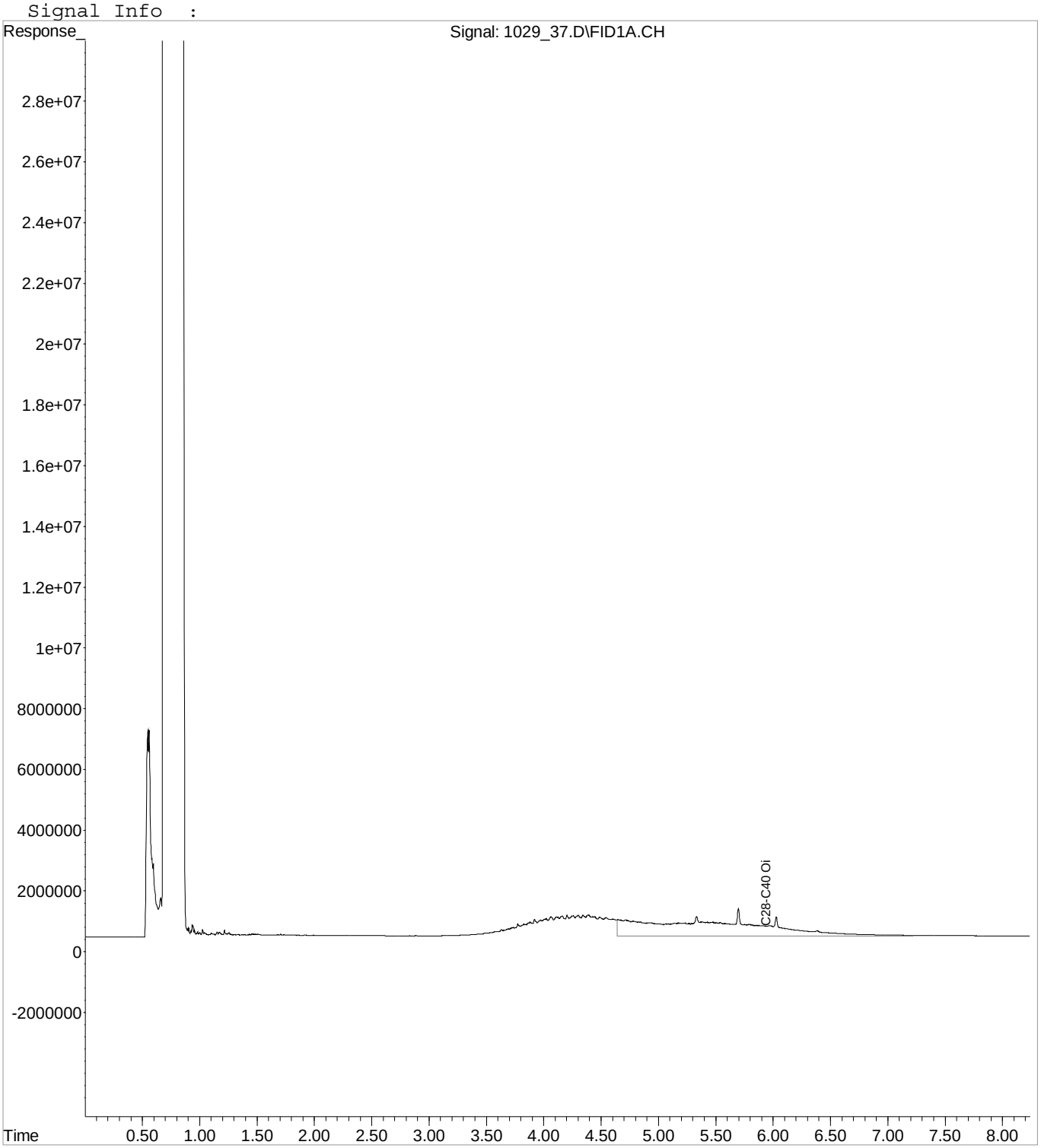
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	422649276	1969.1950003	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914\1029 37.D Vial: 4
Acq On : 10-29-2014 03:54:55 PM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 29 16:05 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

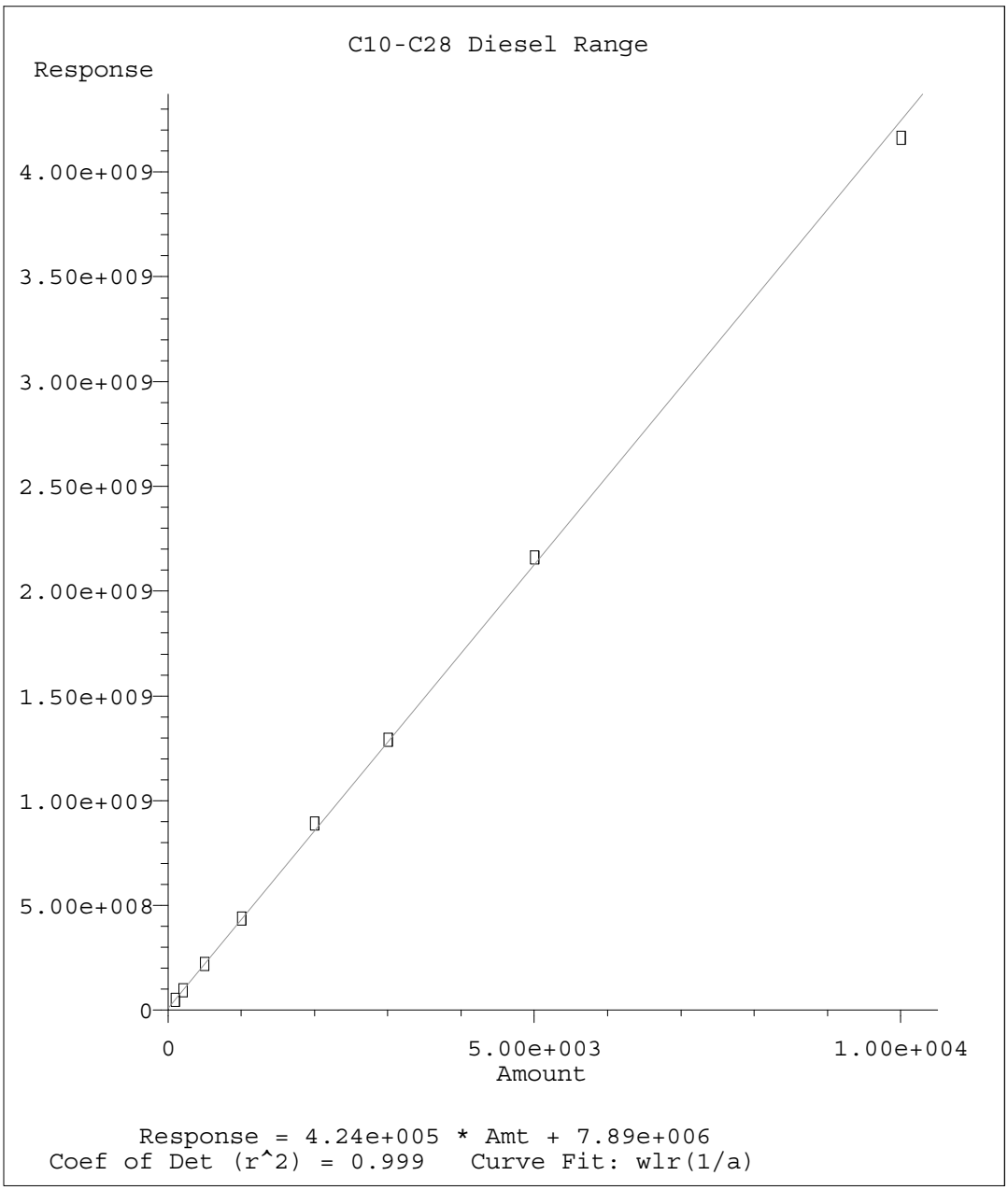
Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

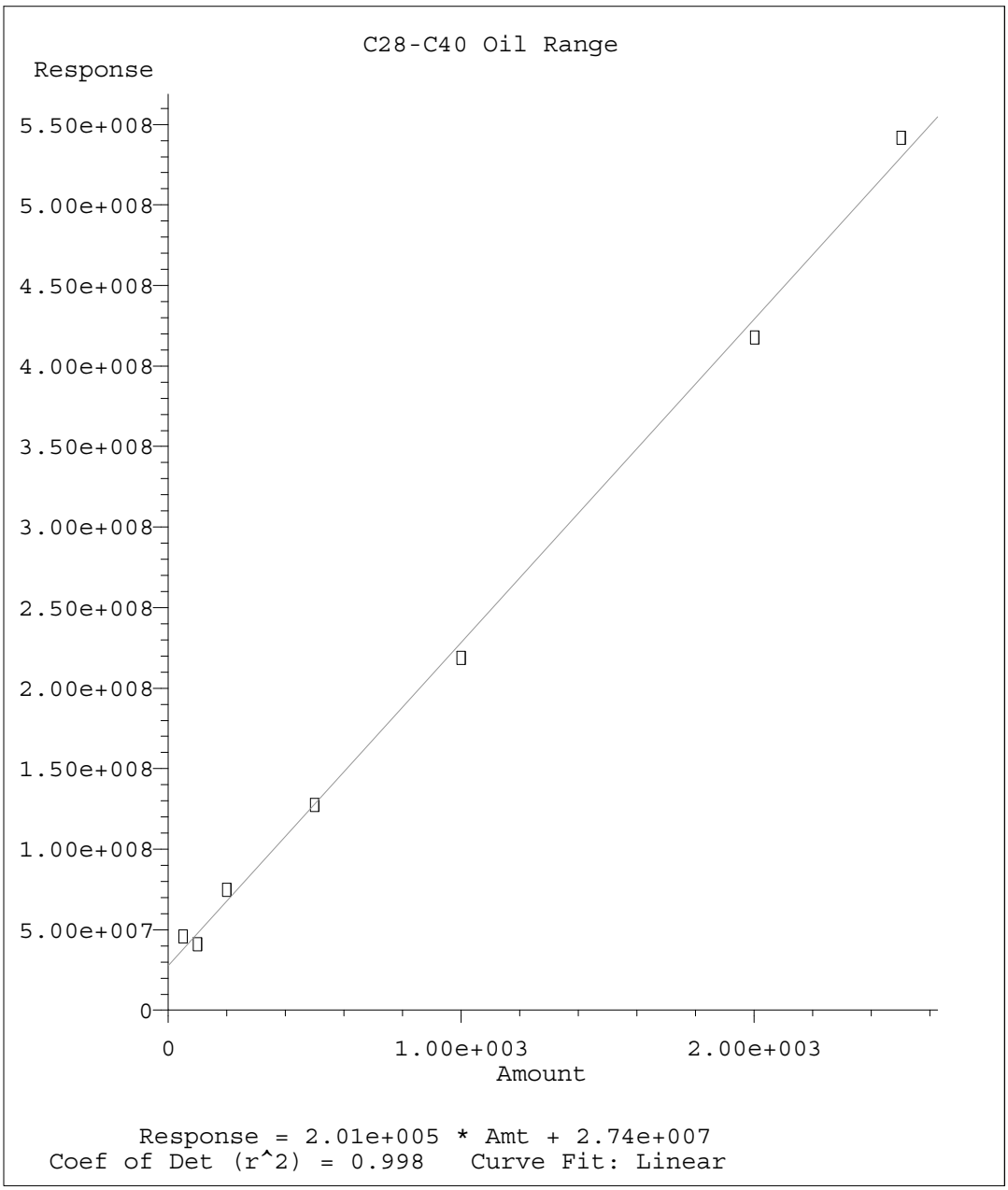
Instrument ID	: SVGC16	Review Method	: EPHMOD	Released By	: Casey Gwaltney
Method	: LA16J23N	Review Protocol	: EPHMOD	Released On	: 10/28/2014 2:39:11 PM

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



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 :

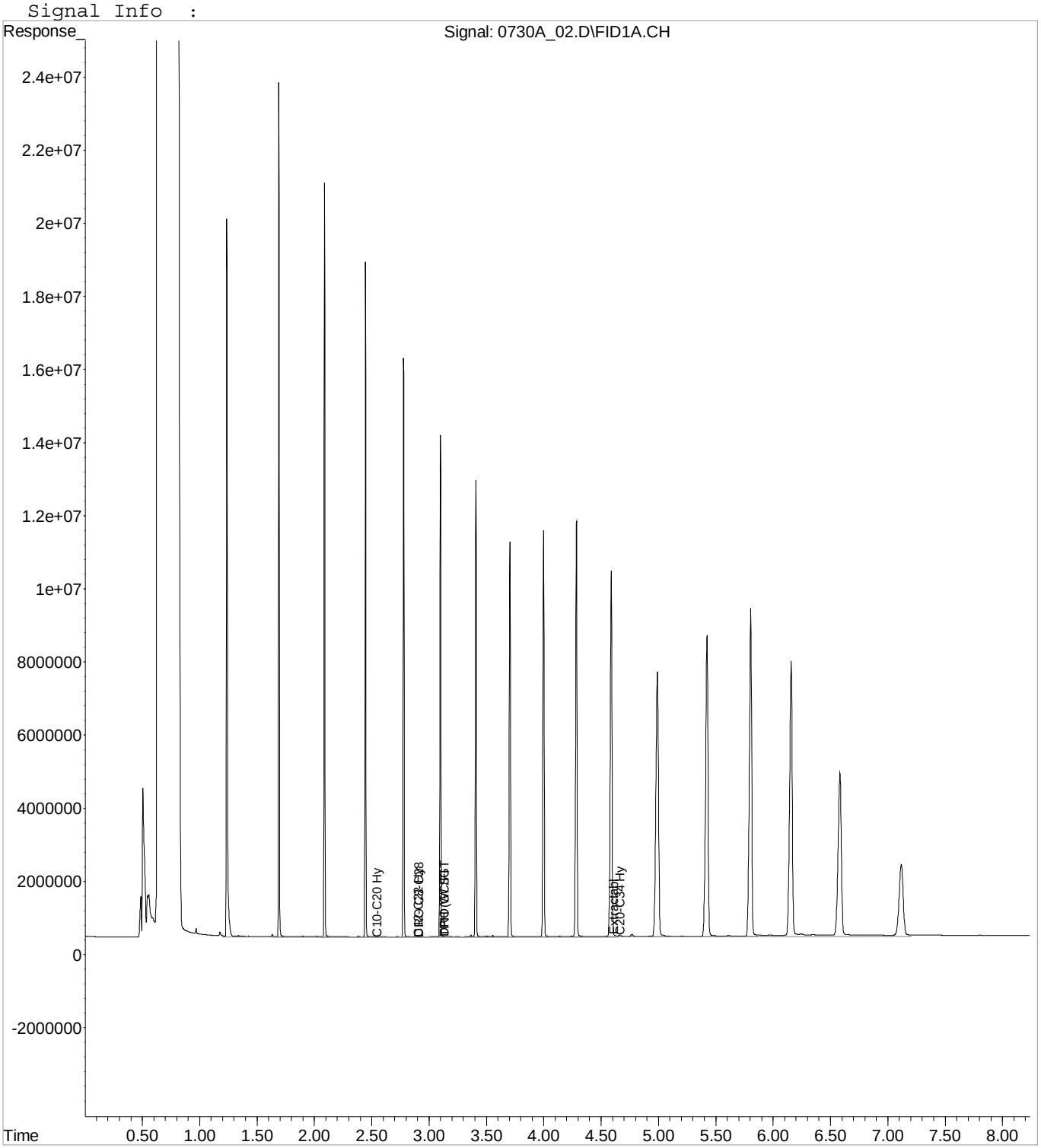
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,m,h C12-C22 Hydrocarbons	2.90	521337010	623.8574135	ppm
2) t,m,h TPH (GC/FID) HIGH FRACTION	3.14	916178591	947.0628273	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

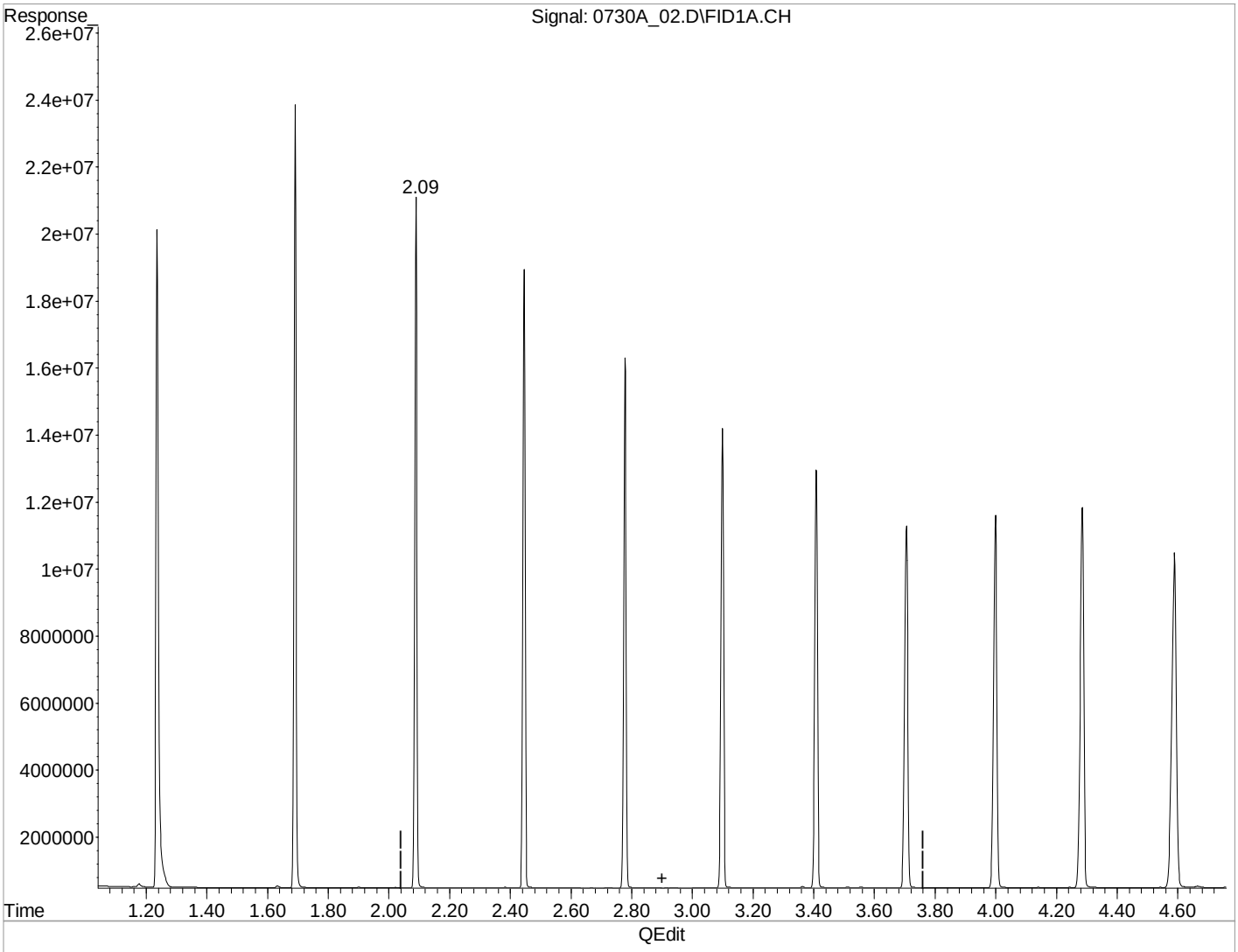
Volume Inj. :
Signal Phase :
Signal Info :



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

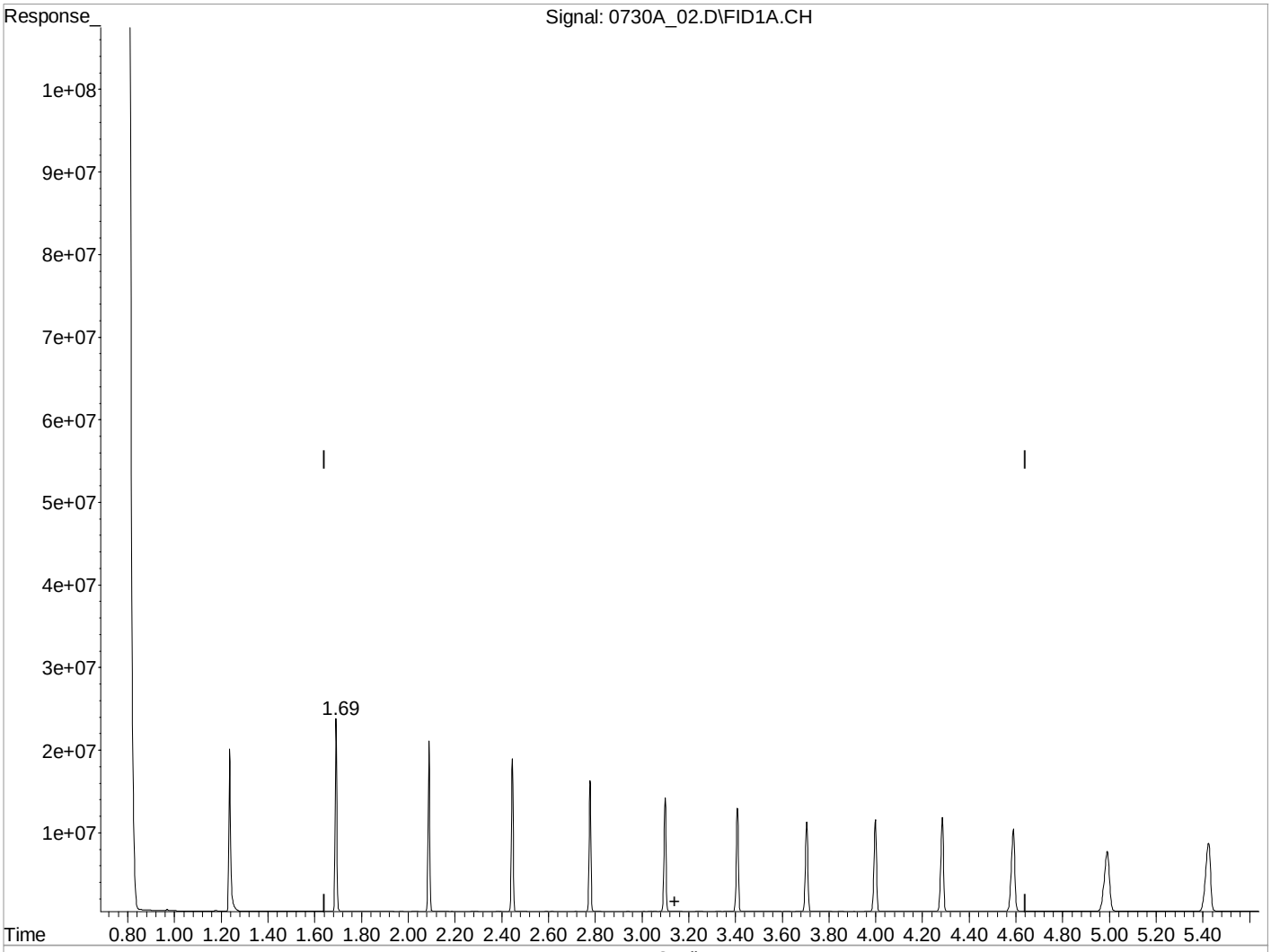
(+) = Expected Retention Time

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

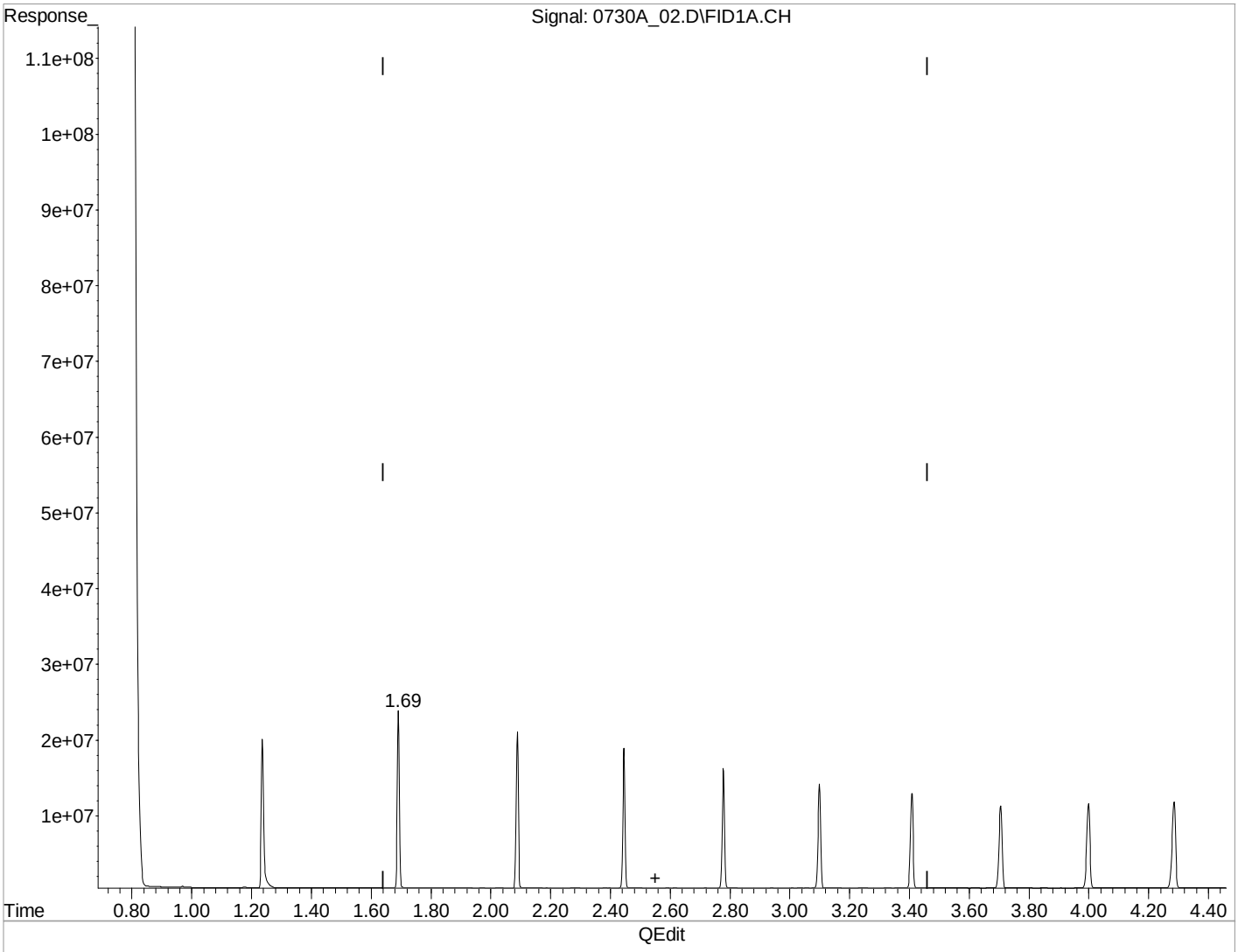
(+) = Expected Retention Time

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

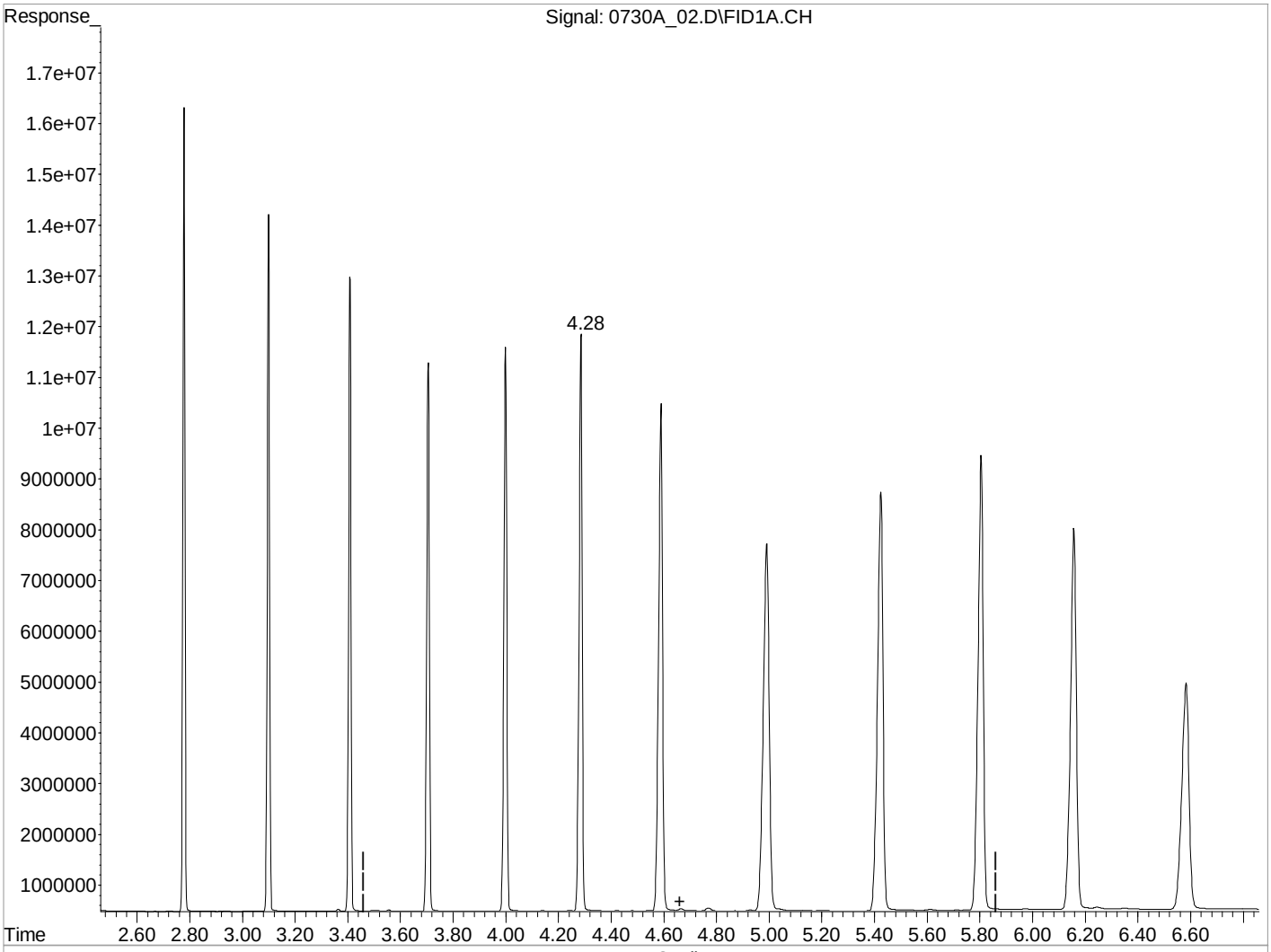
(+) = Expected Retention Time

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

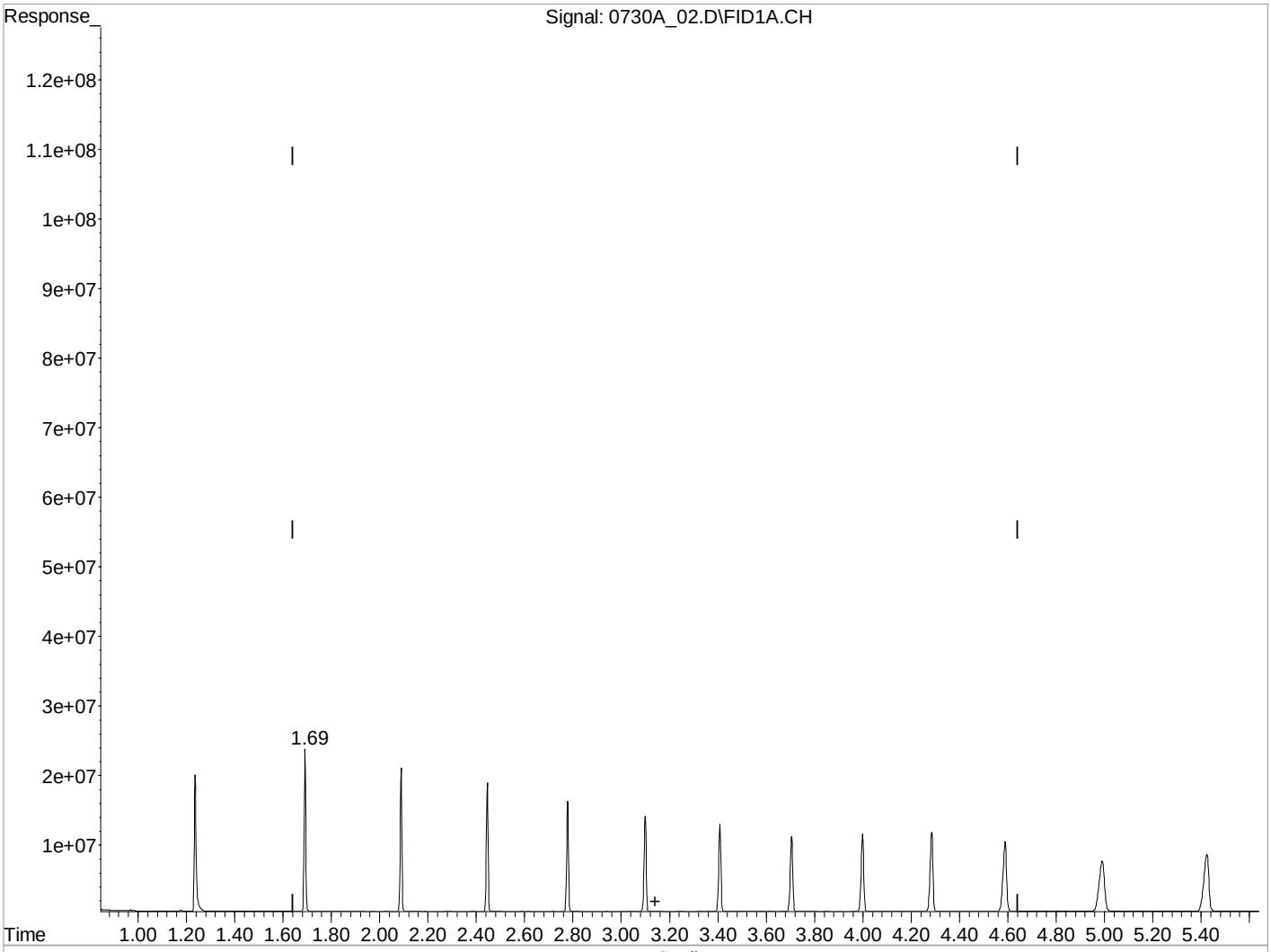
(+) = Expected Retention Time

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

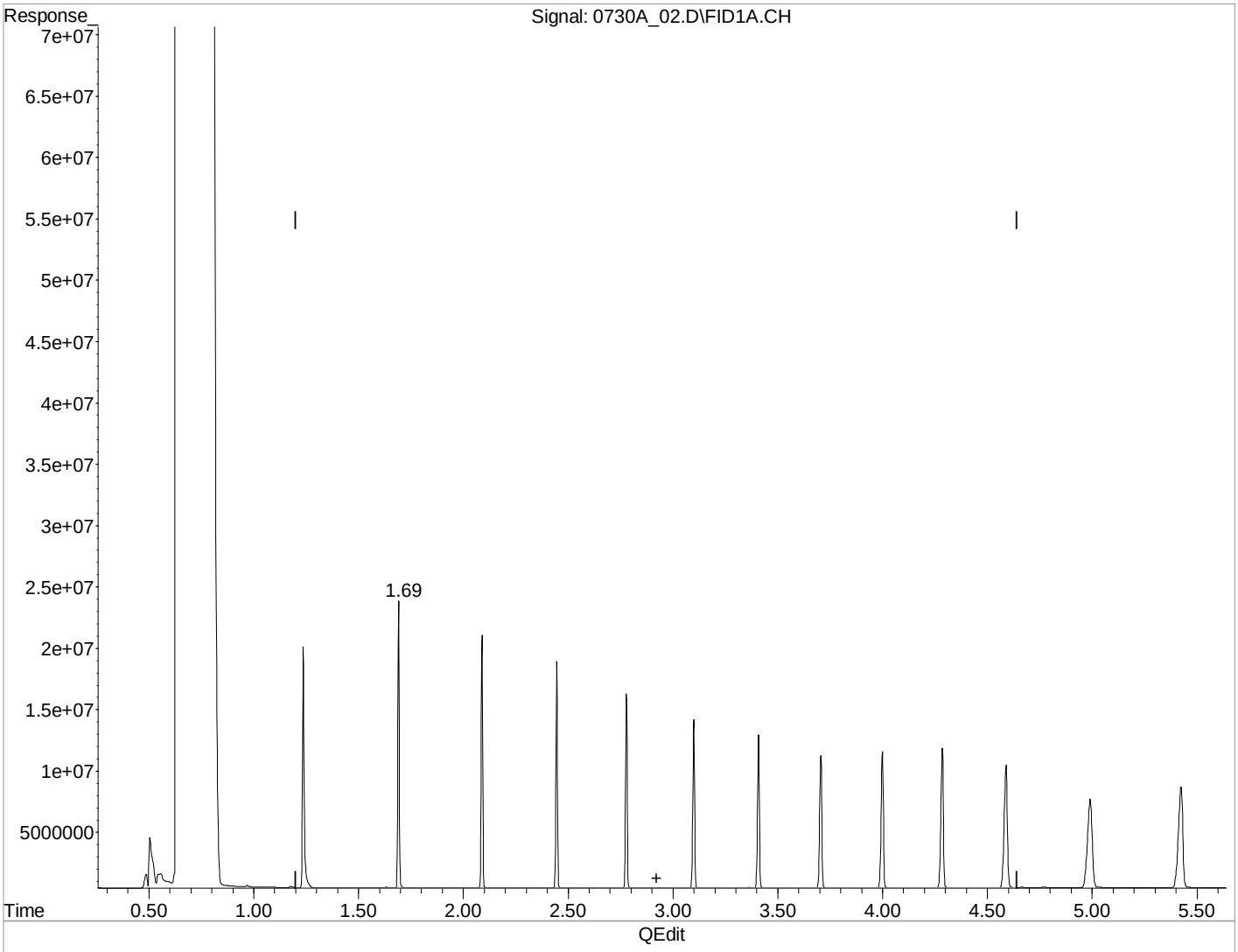
(+) = Expected Retention Time

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

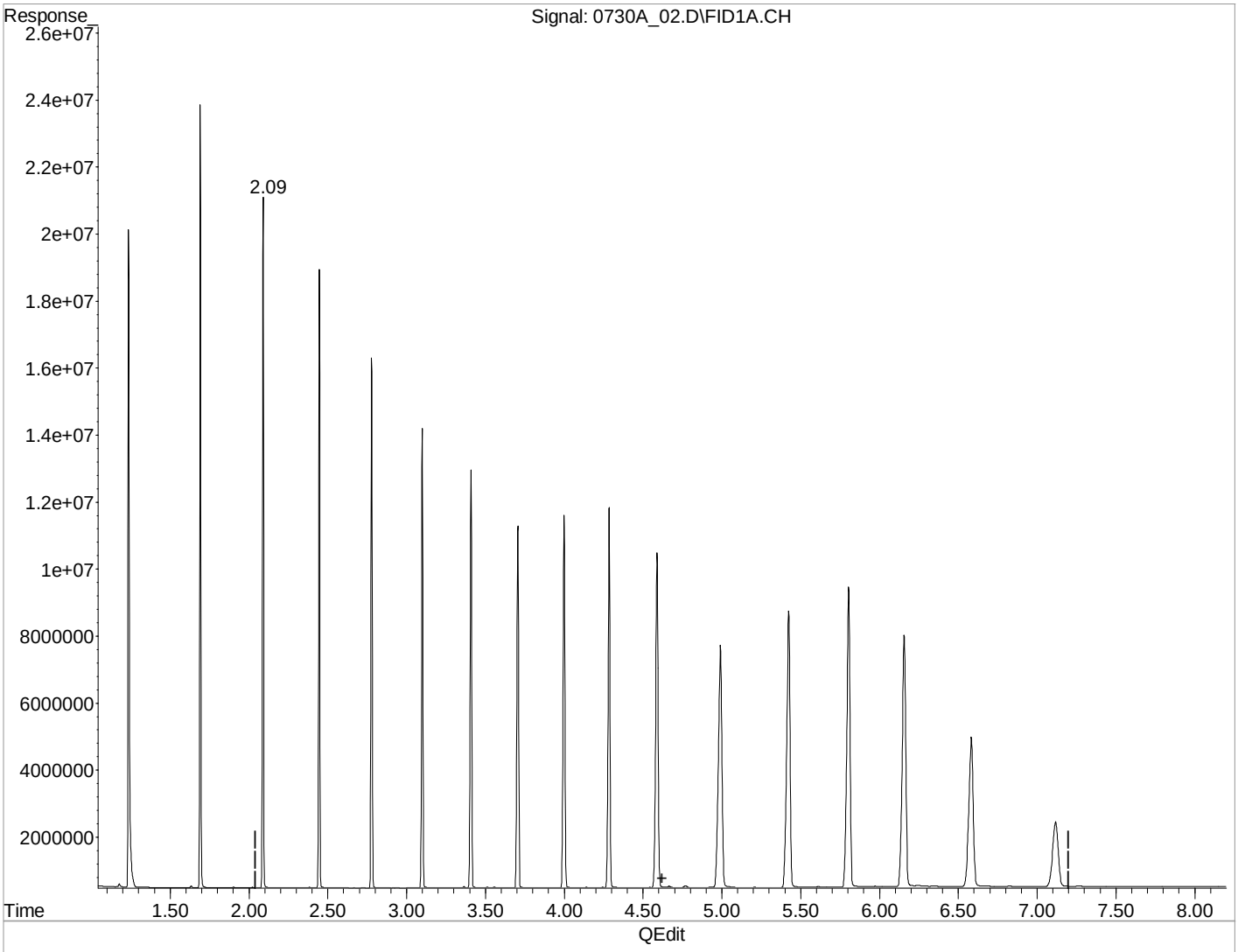
(+) = Expected Retention Time

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 :

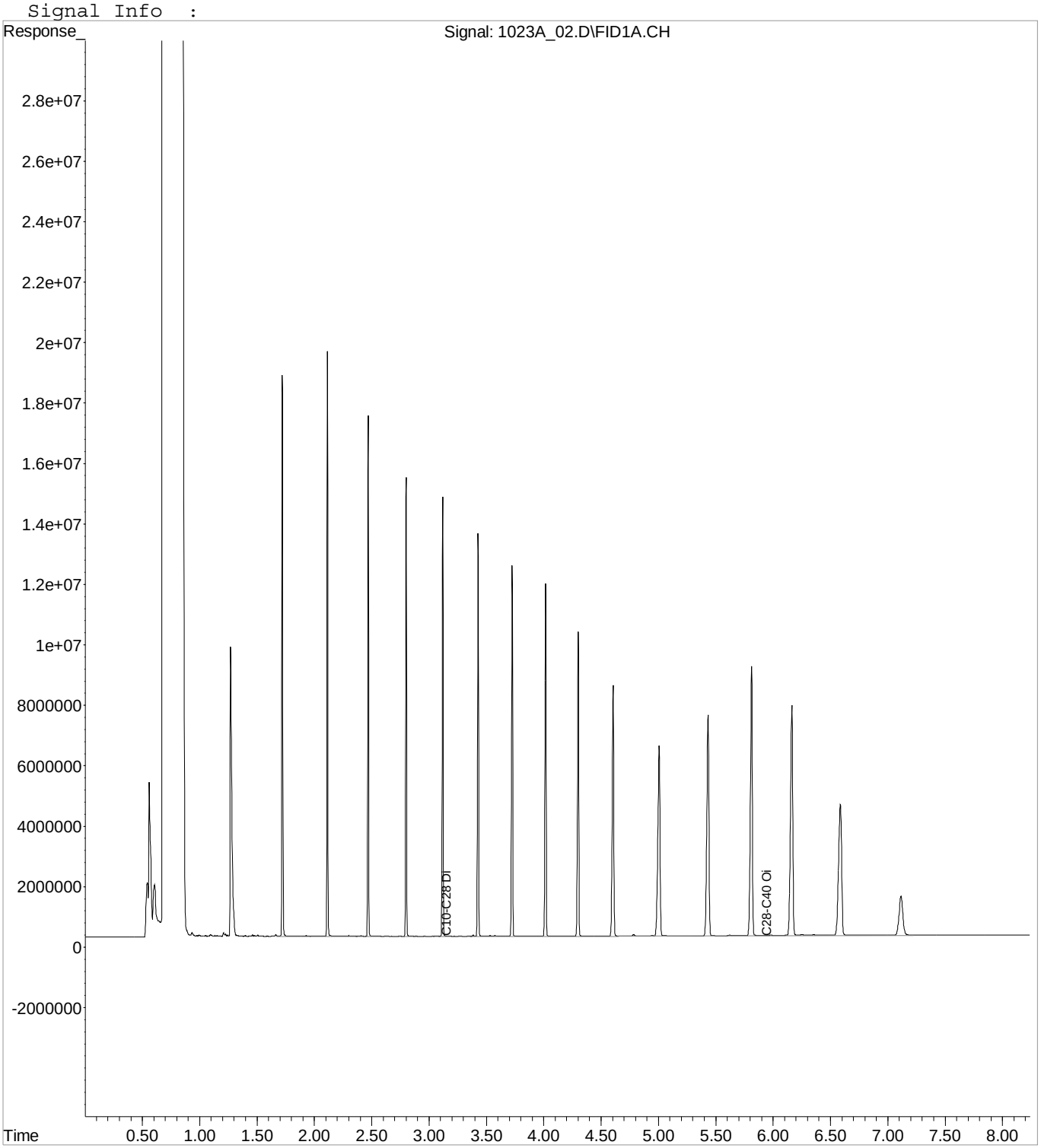
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	3.16	830023485	1940.6512764	ppm
2) h,m C28-C40 Oil Range	5.93	510377238	1765.0094751	ppm

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

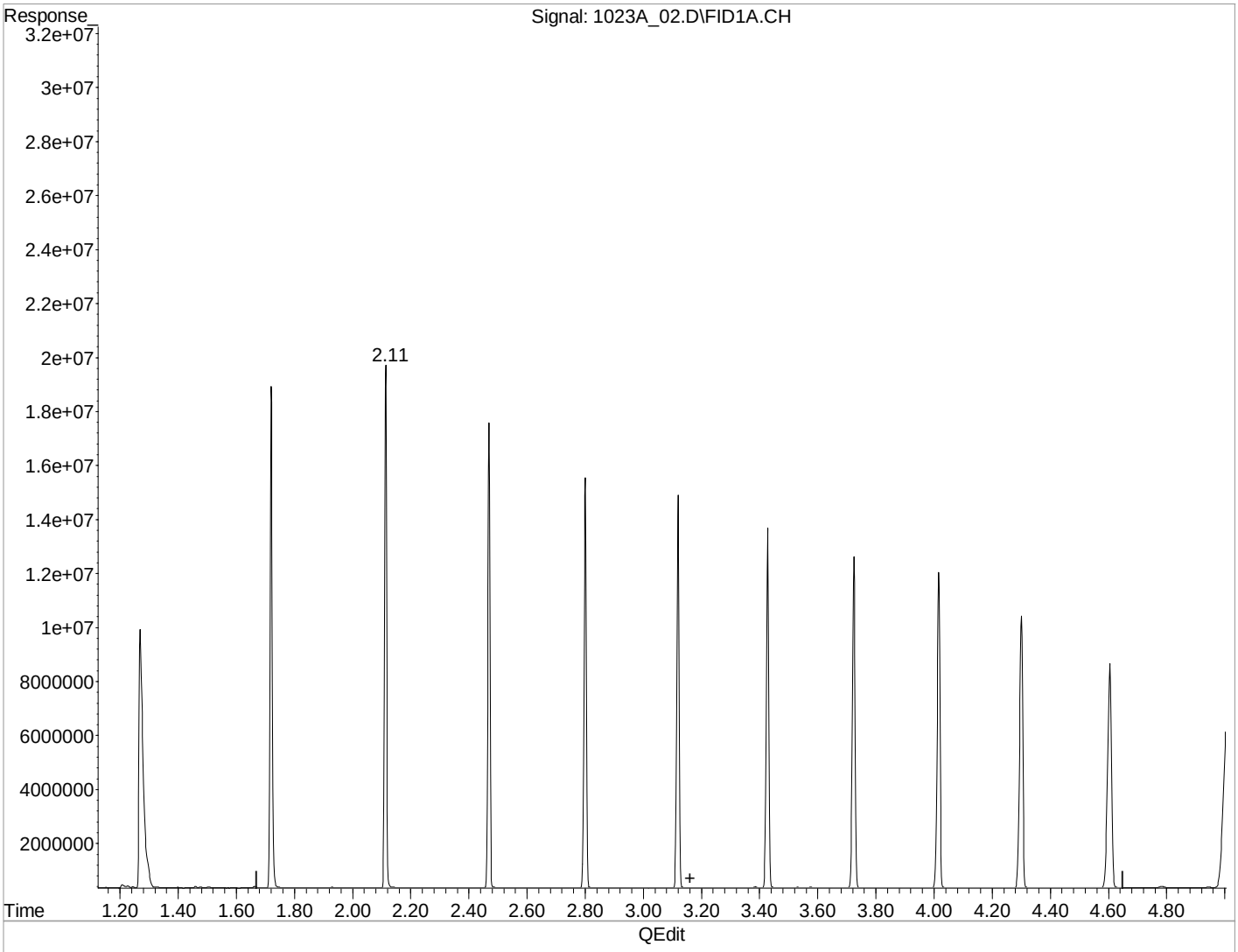
Volume Inj. :
Signal Phase :
Signal Info :



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

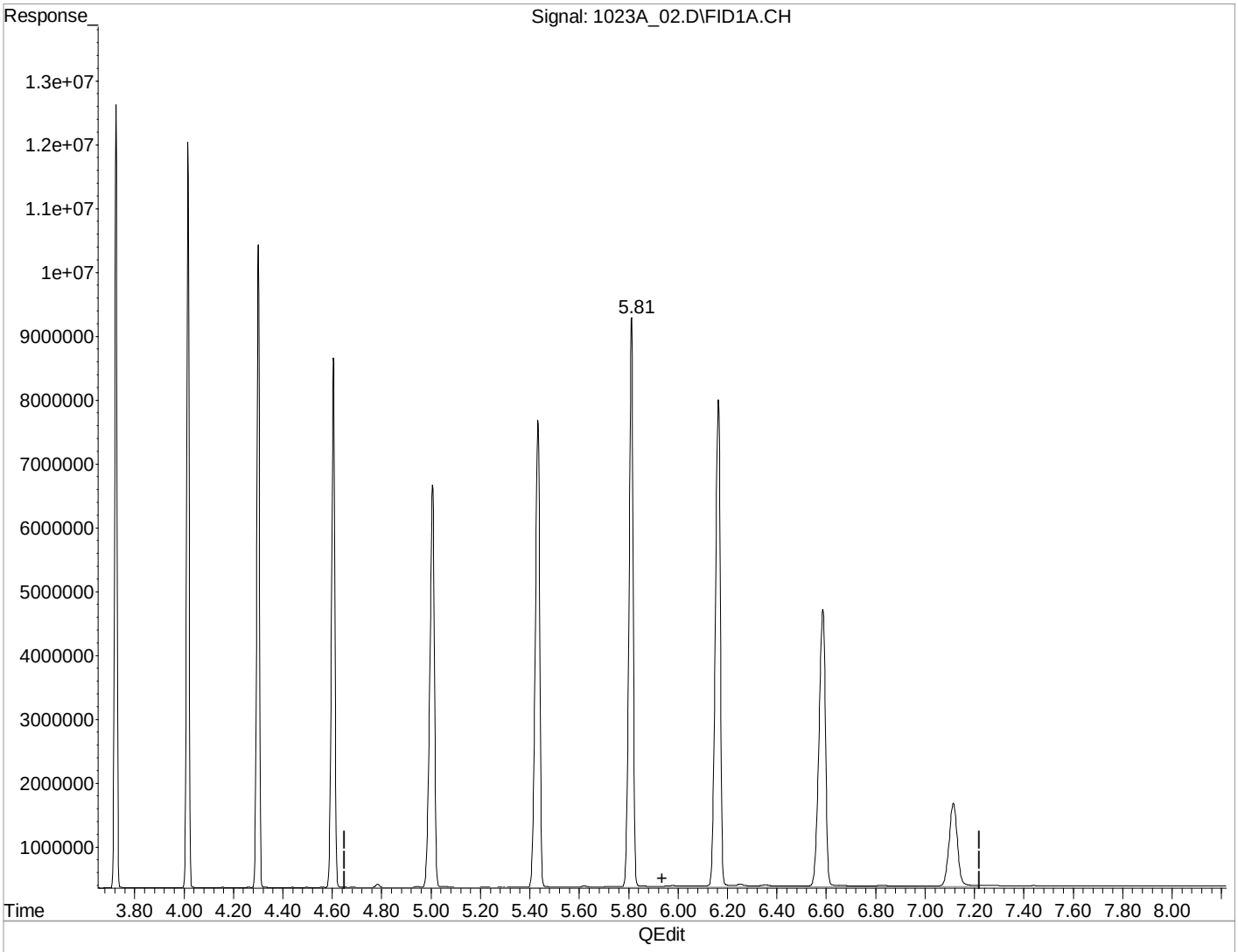
response 830023485

(+) = 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

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 :

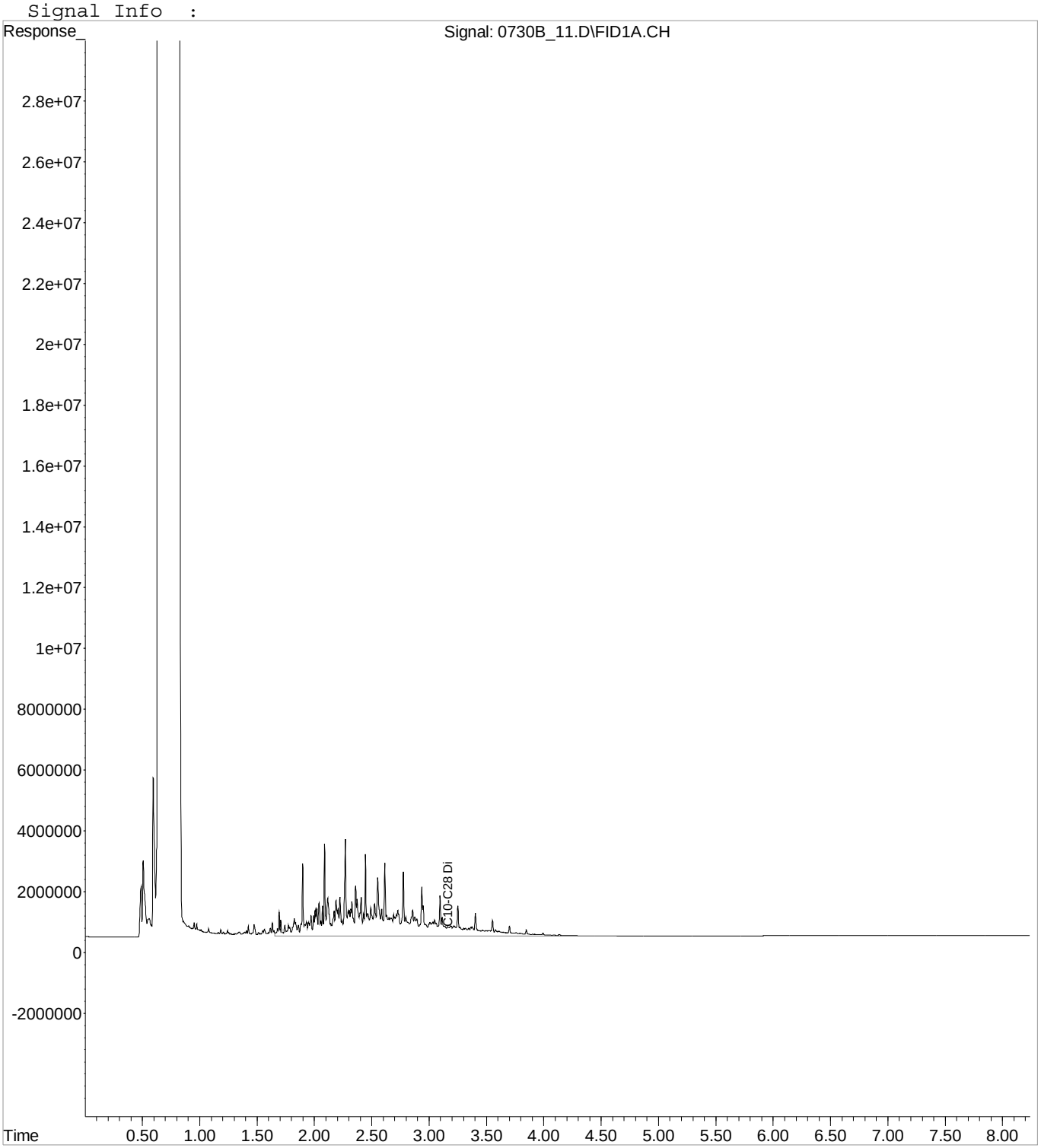
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	3.16	674881026	1574.4354360	ppm
2) h,m C28-C40 Oil Range	5.93	8651293	N.D.	ppm

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  :
```

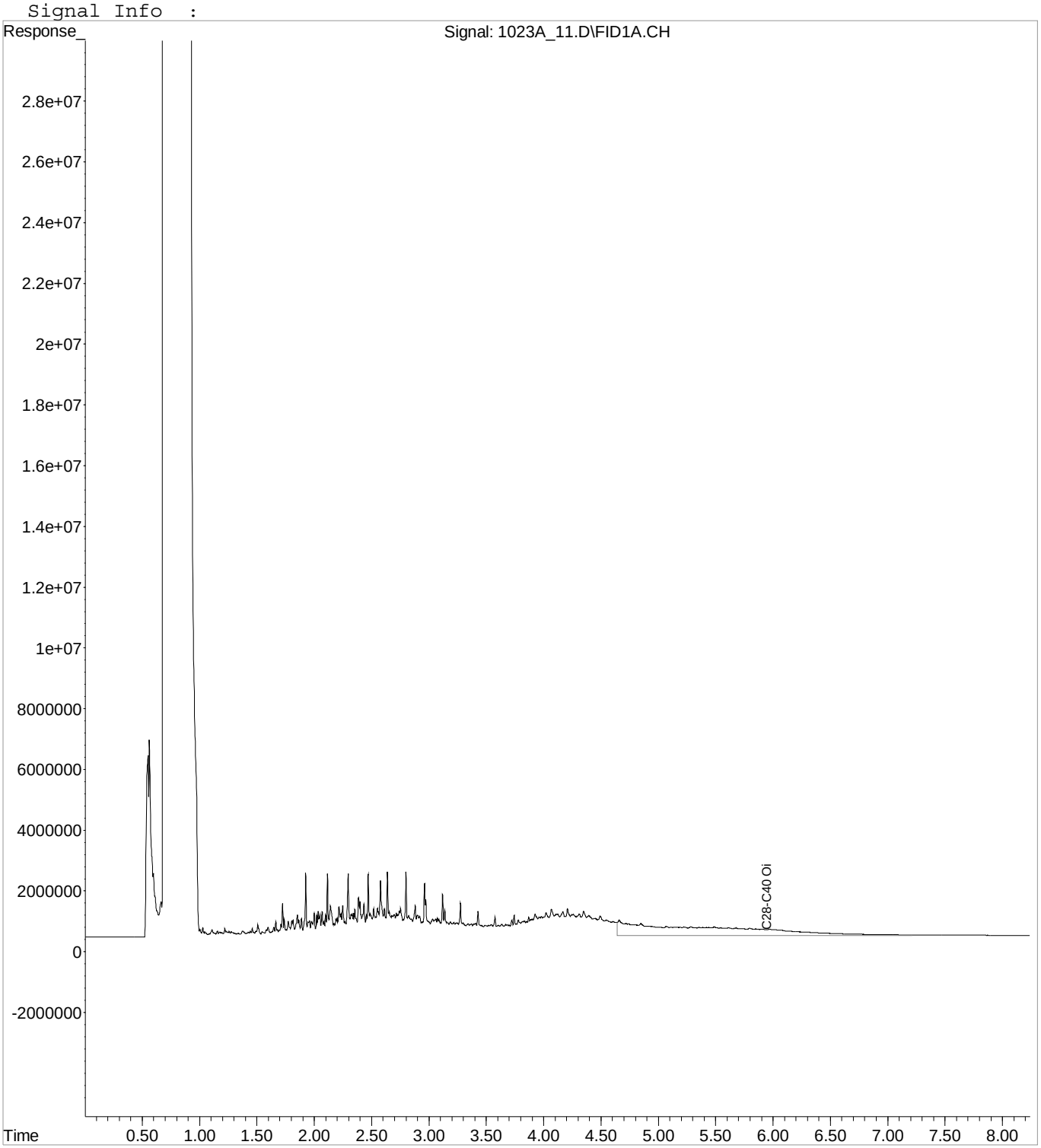
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	268952122	1203.5218318	ppm

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  :
```

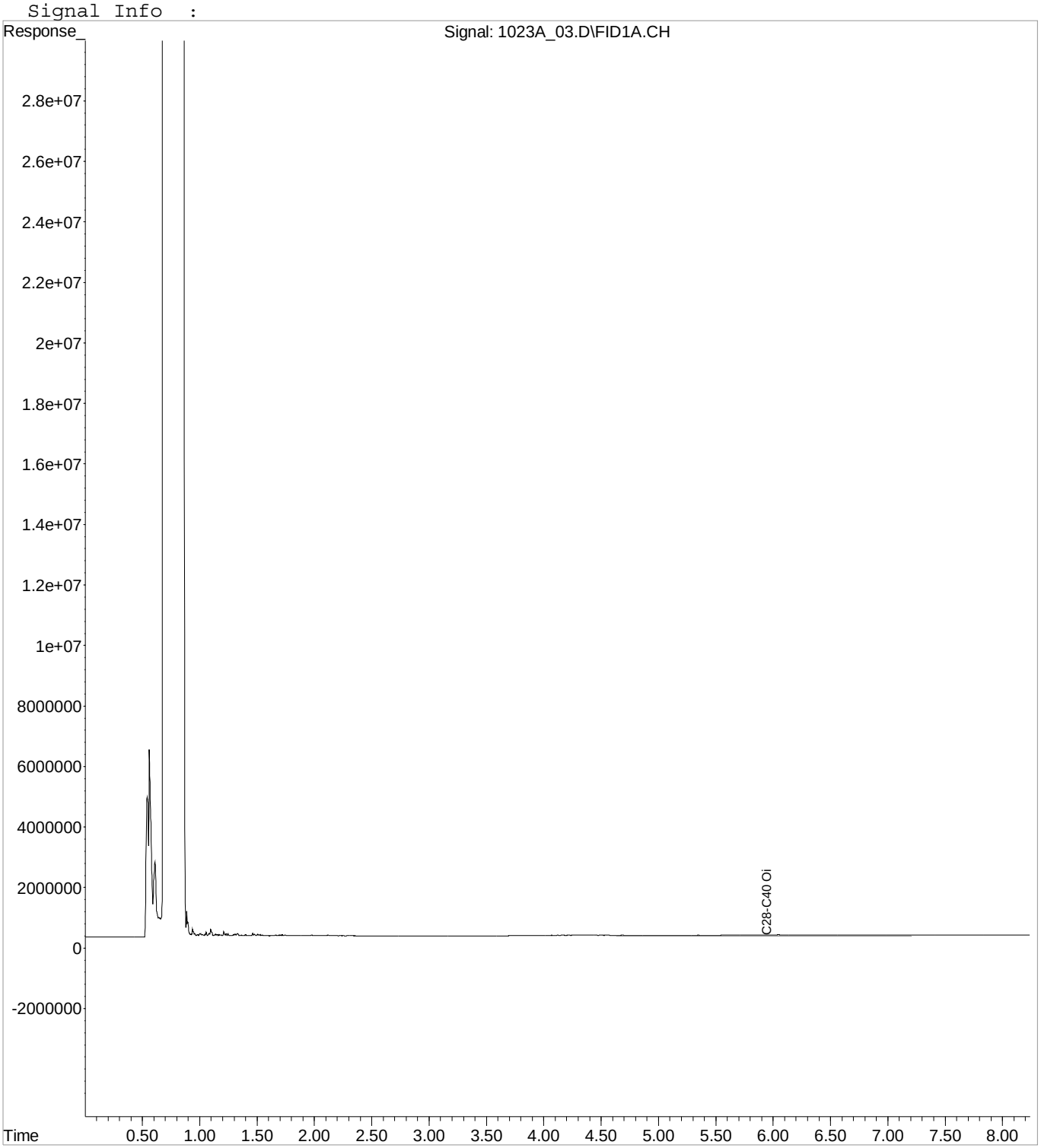
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	45636462	120.6724103	ppm

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  :
```

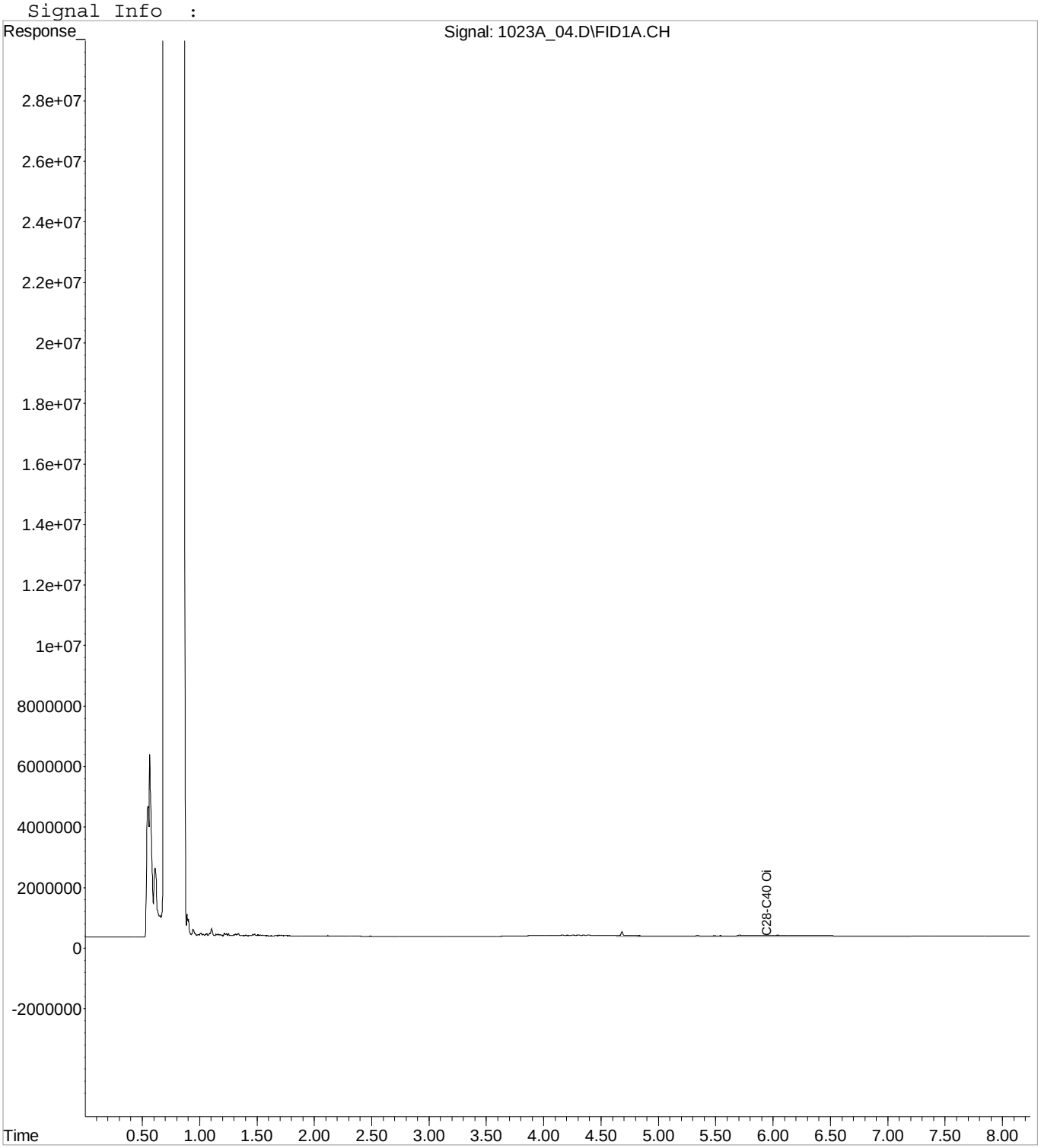
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	40877010	107.2310002	ppm

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  :
```

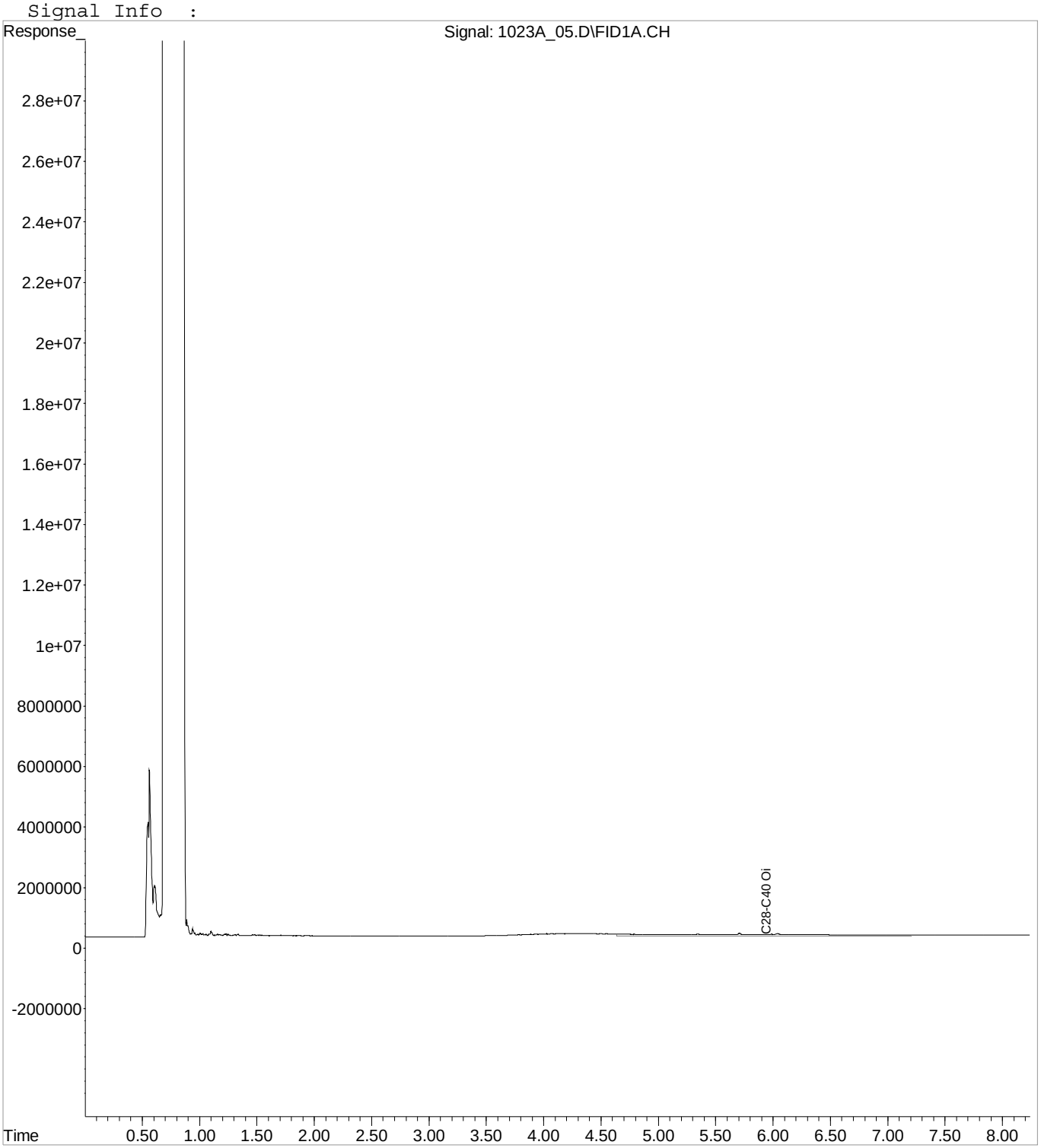
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	74547967	231.1416055	ppm

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  :
```

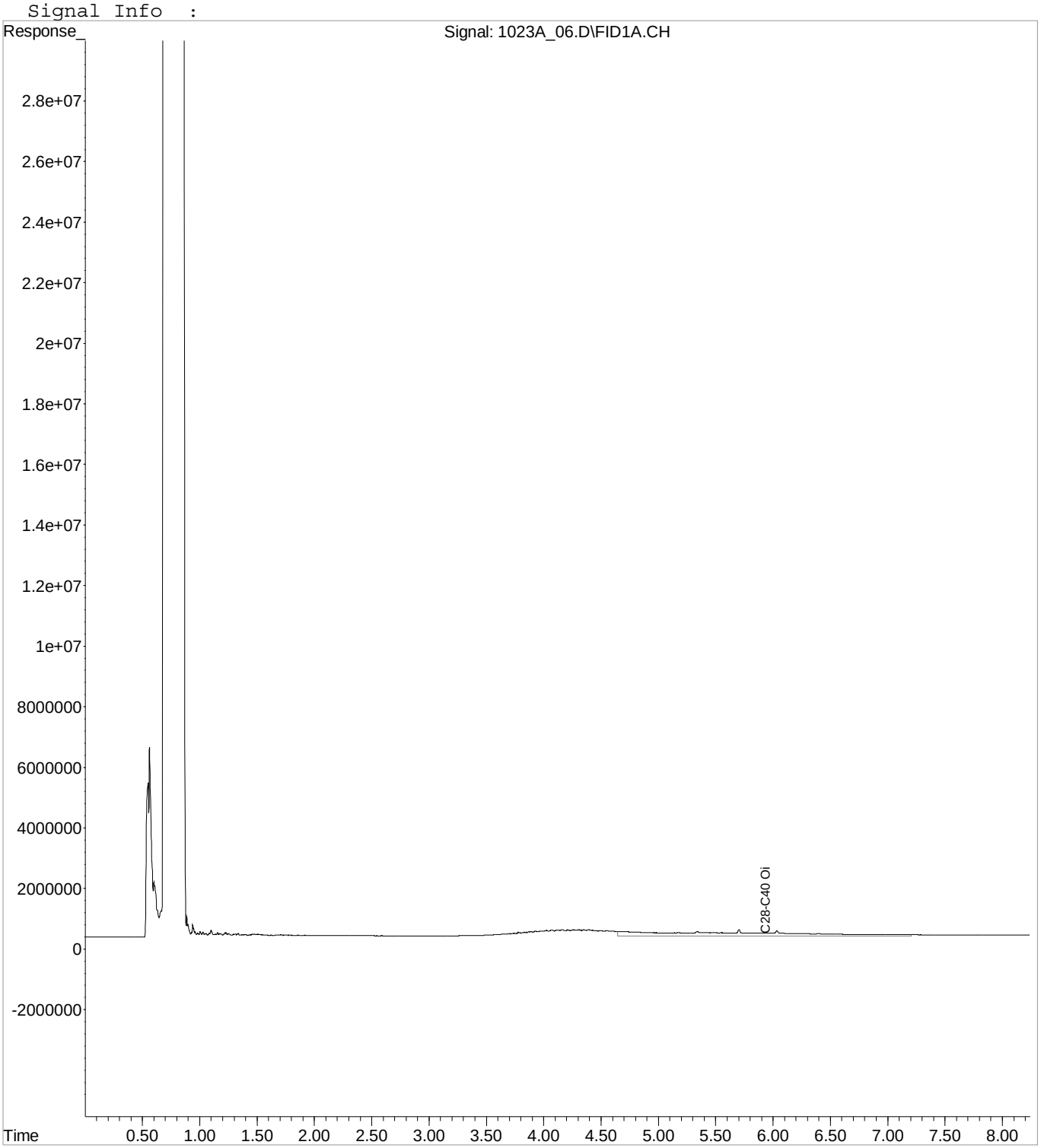
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	127318778	425.6072252	ppm

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 :

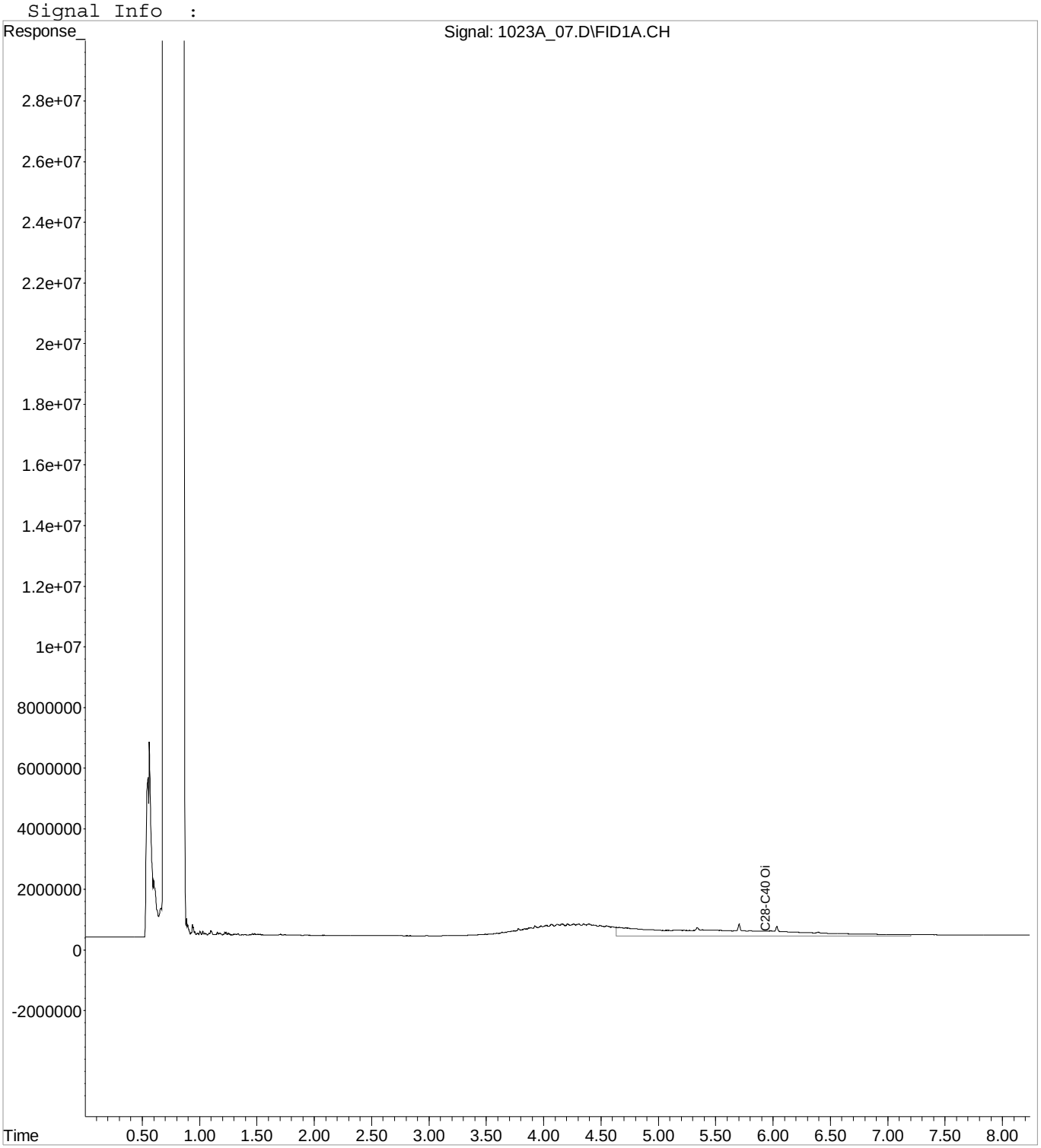
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	218621838	764.4133216	ppm

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  :
```

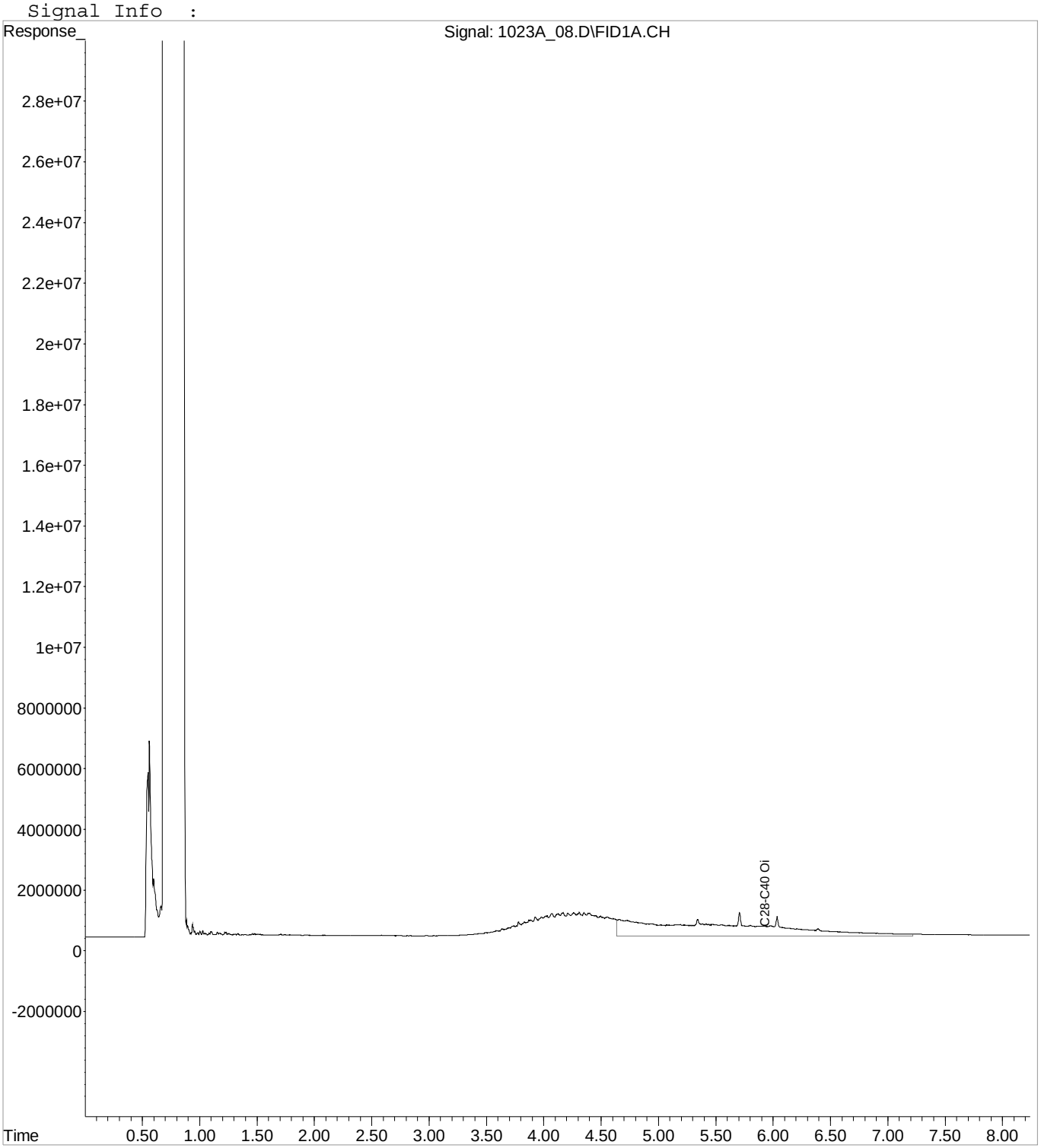
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	417669036	1488.6241042	ppm

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  :
```

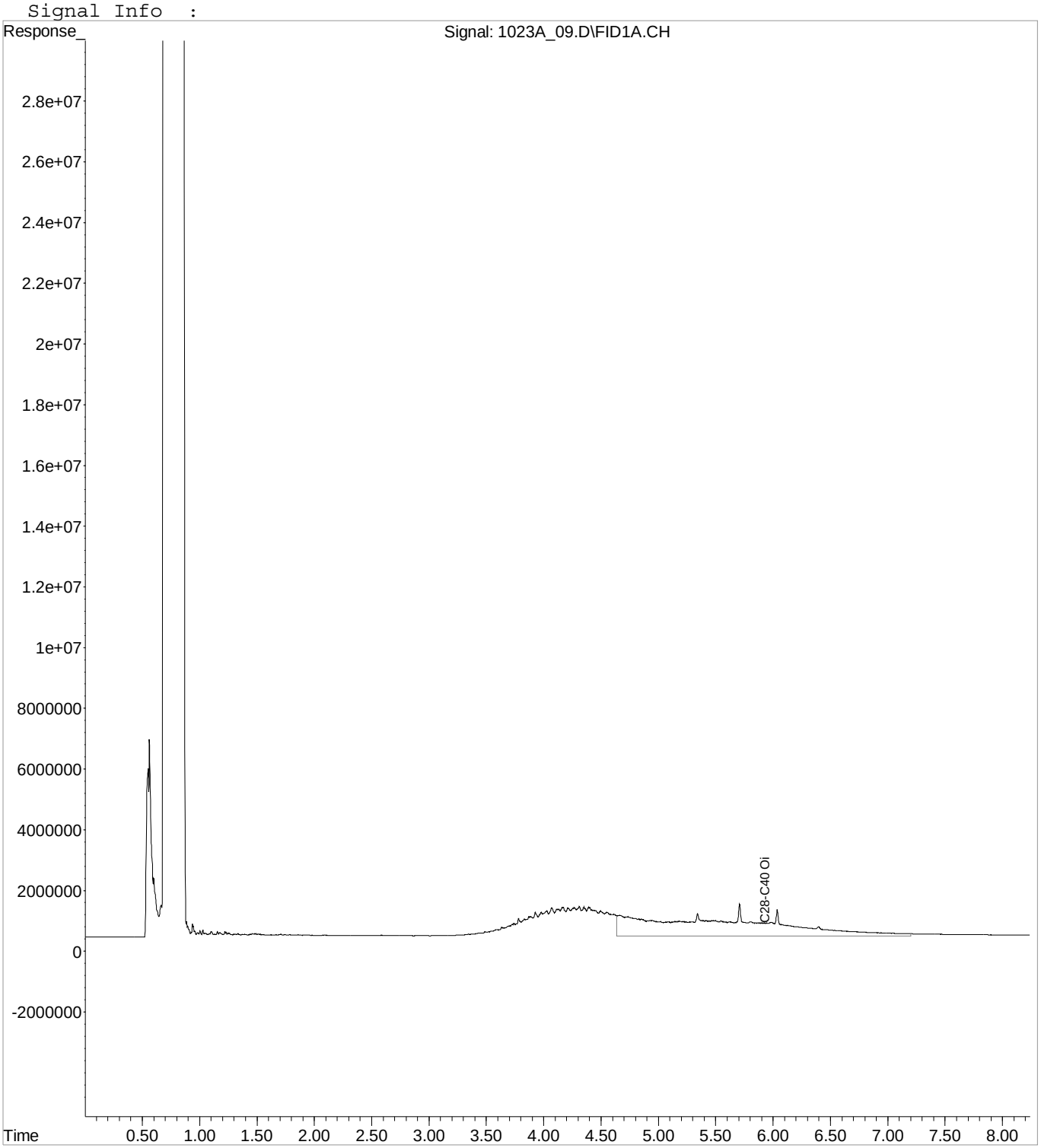
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	541539004	1976.6738531	ppm

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  :
```

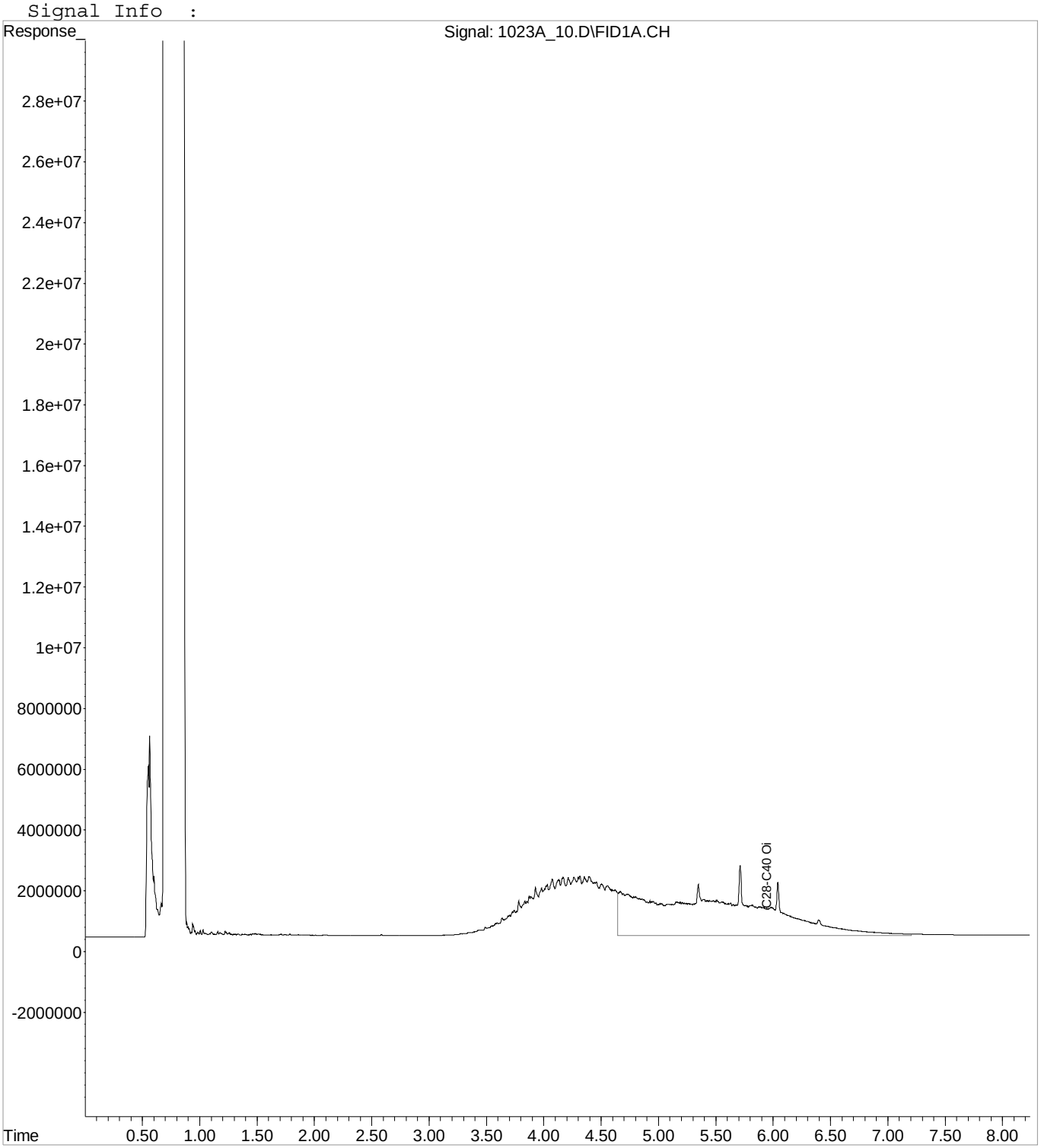
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	1134541207	4200.9500219	ppm

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
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(615) 758-5858
(800) 767-5859
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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729564

Semi-Volatiles by Method 8270C
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG751073**
Description: **SVOCs by Method 8270C (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-01 1x	10/23/2014	10/28/2014	10/29/2014
L729564-02 1x	10/23/2014	10/28/2014	10/29/2014
L729564-04 1x	10/23/2014	10/28/2014	10/29/2014
L729564-05 1x	10/23/2014	10/28/2014	10/29/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS4	LCS WG751073	LCS WG751073	1028A_04.D	10/29/2014	4:00 AM
BNAMS4	LCSD WG751073	LCSD WG751073	1028A_05.D	10/29/2014	4:22 AM
BNAMS4	Blank WG751073	Blank WG751073	1028A_06.D	10/29/2014	4:43 AM
BNAMS4	TU904-SB05-NS01	L729564-01	1028A_07.D	10/29/2014	5:05 AM
BNAMS4	TU904-SB05-NS02	L729564-02	1028A_08.D	10/29/2014	5:27 AM
BNAMS4	TU904-SB08-NS01	L729564-04	1028A_09.D	10/29/2014	5:49 AM
BNAMS4	TU904-SB08-NS02	L729564-05	1028A_10.D	10/29/2014	6:11 AM

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	333	201.38	60.5	39.8 - 100	
2,4,5-Trichlorophenol	1	333	219.32	65.9	43.3 - 110	
2,4,6-Trichlorophenol	1	333	229.15	68.8	44.4 - 108	
2,4-Dichlorophenol	1	333	222.83	66.9	46.2 - 109	
2,4-Dimethylphenol	1	333	210.80	63.3	42.2 - 110	
2,4-Dinitrophenol	1	333	178.73	53.7	10 - 105	
2,4-Dinitrotoluene	1	333	225.00	67.6	53 - 112	
2,6-Dinitrotoluene	1	333	227.20	68.2	51.6 - 110	
2-Chloronaphthalene	1	333	213.10	64	47.1 - 105	
2-Chlorophenol	1	333	196.79	59.1	40.8 - 103	
2-Methylphenol	1	333	186.89	56.1	42.4 - 100	
2-Nitroaniline	1	333	221.24	66.4	53.8 - 107	
2-Nitrophenol	1	333	229.01	68.8	44.2 - 113	
3&4-Methyl Phenol	1	333	207.36	62.3	50.5 - 115	
3,3-Dichlorobenzidine	1	333	141.81	42.6	21 - 101	
3-Nitroaniline	1	333	178.51	53.6	34.7 - 103	
4,6-Dinitro-2-methylphenol	1	333	230.15	69.1	23.1 - 119	
4-Bromophenyl-phenylether	1	333	209.32	62.9	51.4 - 110	
4-Chloro-3-methylphenol	1	333	217.26	65.2	51.1 - 113	
4-Chloroaniline	1	333	163.49	49.1	24.5 - 101	
4-Chlorophenyl-phenylether	1	333	204.95	61.5	48.1 - 108	
4-Nitroaniline	1	333	196.99	59.2	38.6 - 133	
4-Nitrophenol	1	333	191.22	57.4	34.8 - 109	
Azobenzene	1	333	176.99	53.2	46.4 - 109	
Benzoic Acid	1	333	91.215	27.4	0 - 82	
Benzyl Alcohol	1	333	163.82	49.2	49.1 - 105	
Benzylbutyl phthalate	1	333	193.49	58.1	47.5 - 115	
Bis(2-chlorethoxy)methane	1	333	177.24	53.2	44.9 - 108	
Bis(2-chloroethyl)ether	1	333	157.38	47.3	32.5 - 112	
Bis(2-chloroisopropyl)ether	1	333	183.36	55.1	40.4 - 99	
Bis(2-ethylhexyl)phthalate	1	333	194.94	58.5	48.1 - 116	
Carbazole	1	333	206.27	61.9	52.4 - 102	
Dibenzofuran	1	333	212.34	63.8	48.6 - 104	
Diethyl phthalate	1	333	218.81	65.7	52 - 112	
Dimethyl phthalate	1	333	218.82	65.7	51.4 - 108	
Di-n-butyl phthalate	1	333	215.46	64.7	49.7 - 113	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Di-n-octyl phthalate	1	333	189.90	57	49.6 - 112	
Hexachloro-1,3-butadiene	1	333	215.81	64.8	41.5 - 112	
Hexachlorobenzene	1	333	211.20	63.4	43.2 - 104	
Hexachloroethane	1	333	194.62	58.4	36.2 - 103	
Isophorone	1	333	213.64	64.2	28.8 - 104	
Nitrobenzene	1	333	195.96	58.8	40.7 - 109	
n-Nitrosodimethylamine	1	333	147.12	44.2	18.1 - 122	
n-Nitrosodi-n-propylamine	1	333	170.36	51.2	43.3 - 109	
n-Nitrosodiphenylamine	1	333	202.91	60.9	48.8 - 107	
Pentachlorophenol	1	333	212.44	63.8	16.2 - 102	
Phenol	1	333	185.92	55.8	41.5 - 106	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	333	213.45	64.1	39.8 - 100	
2,4,5-Trichlorophenol	1	333	238.44	71.6	43.3 - 110	
2,4,6-Trichlorophenol	1	333	242.91	72.9	44.4 - 108	
2,4-Dichlorophenol	1	333	235.13	70.6	46.2 - 109	
2,4-Dimethylphenol	1	333	236.81	71.1	42.2 - 110	
2,4-Dinitrophenol	1	333	181.52	54.5	10 - 105	
2,4-Dinitrotoluene	1	333	245.28	73.7	53 - 112	
2,6-Dinitrotoluene	1	333	250.11	75.1	51.6 - 110	
2-Chloronaphthalene	1	333	231.14	69.4	47.1 - 105	
2-Chlorophenol	1	333	211.21	63.4	40.8 - 103	
2-Methylphenol	1	333	196.35	59	42.4 - 100	
2-Nitroaniline	1	333	237.30	71.3	53.8 - 107	
2-Nitrophenol	1	333	243.62	73.2	44.2 - 113	
3&4-Methyl Phenol	1	333	223.13	67	50.5 - 115	
3,3-Dichlorobenzidine	1	333	165.36	49.7	21 - 101	
3-Nitroaniline	1	333	201.31	60.5	34.7 - 103	
4,6-Dinitro-2-methylphenol	1	333	238.70	71.7	23.1 - 119	
4-Bromophenyl-phenylether	1	333	228.28	68.6	51.4 - 110	
4-Chloro-3-methylphenol	1	333	232.35	69.8	51.1 - 113	
4-Chloroaniline	1	333	179.78	54	24.5 - 101	
4-Chlorophenyl-phenylether	1	333	226.70	68.1	48.1 - 108	
4-Nitroaniline	1	333	216.66	65.1	38.6 - 133	
4-Nitrophenol	1	333	214.41	64.4	34.8 - 109	
Azobenzene	1	333	189.77	57	46.4 - 109	
Benzoic Acid	1	333	90.465	27.2	0 - 82	
Benzyl Alcohol	1	333	178.20	53.5	49.1 - 105	
Benzylbutyl phthalate	1	333	224.40	67.4	47.5 - 115	
Bis(2-chlorethoxy)methane	1	333	189.83	57	44.9 - 108	
Bis(2-chloroethyl)ether	1	333	163.05	49	32.5 - 112	
Bis(2-chloroisopropyl)ether	1	333	196.84	59.1	40.4 - 99	
Bis(2-ethylhexyl)phthalate	1	333	219.64	66	48.1 - 116	
Carbazole	1	333	226.89	68.1	52.4 - 102	
Dibenzofuran	1	333	233.58	70.1	48.6 - 104	
Diethyl phthalate	1	333	237.59	71.3	52 - 112	
Dimethyl phthalate	1	333	237.88	71.4	51.4 - 108	
Di-n-butyl phthalate	1	333	237.02	71.2	49.7 - 113	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Di-n-octyl phthalate	1	333	214.50	64.4	49.6 - 112	
Hexachloro-1,3-butadiene	1	333	230.16	69.1	41.5 - 112	
Hexachlorobenzene	1	333	232.61	69.9	43.2 - 104	
Hexachloroethane	1	333	201.65	60.6	36.2 - 103	
Isophorone	1	333	226.97	68.2	28.8 - 104	
Nitrobenzene	1	333	208.90	62.7	40.7 - 109	
n-Nitrosodimethylamine	1	333	161.65	48.5	18.1 - 122	
n-Nitrosodi-n-propylamine	1	333	180.56	54.2	43.3 - 109	
n-Nitrosodiphenylamine	1	333	222.51	66.8	48.8 - 107	
Pentachlorophenol	1	333	231.10	69.4	16.2 - 102	
Phenol	1	333	197.49	59.3	41.5 - 106	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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	201.38	60.5	213.45	64.1	39.8 - 100		5.82	20	
2,4,5-Trichlorophenol	1	333	219.32	65.9	238.44	71.6	43.3 - 110		8.35	20	
2,4,6-Trichlorophenol	1	333	229.15	68.8	242.91	72.9	44.4 - 108		5.83	20	
2,4-Dichlorophenol	1	333	222.83	66.9	235.13	70.6	46.2 - 109		5.37	20	
2,4-Dimethylphenol	1	333	210.80	63.3	236.81	71.1	42.2 - 110		11.6	20	
2,4-Dinitrophenol	1	333	178.73	53.7	181.52	54.5	10 - 105		1.55	36.5	
2,4-Dinitrotoluene	1	333	225.00	67.6	245.28	73.7	53 - 112		8.62	20	
2,6-Dinitrotoluene	1	333	227.20	68.2	250.11	75.1	51.6 - 110		9.6	20	
2-Chloronaphthalene	1	333	213.10	64	231.14	69.4	47.1 - 105		8.12	20	
2-Chlorophenol	1	333	196.79	59.1	211.21	63.4	40.8 - 103		7.07	20	
2-Methylphenol	1	333	186.89	56.1	196.35	59	42.4 - 100		4.94	20	
2-Nitroaniline	1	333	221.24	66.4	237.30	71.3	53.8 - 107		7.01	20	
2-Nitrophenol	1	333	229.01	68.8	243.62	73.2	44.2 - 113		6.18	20.9	
3&4-Methyl Phenol	1	333	207.36	62.3	223.13	67	50.5 - 115		7.33	20	
3,3-Dichlorobenzidine	1	333	141.81	42.6	165.36	49.7	21 - 101		15.3	22	
3-Nitroaniline	1	333	178.51	53.6	201.31	60.5	34.7 - 103		12	20.7	
4,6-Dinitro-2-methylphenol	1	333	230.15	69.1	238.70	71.7	23.1 - 119		3.65	23.7	
4-Bromophenyl-phenylether	1	333	209.32	62.9	228.28	68.6	51.4 - 110		8.67	20	
4-Chloro-3-methylphenol	1	333	217.26	65.2	232.35	69.8	51.1 - 113		6.71	20	
4-Chloroaniline	1	333	163.49	49.1	179.78	54	24.5 - 101		9.49	24.5	
4-Chlorophenyl-phenylether	1	333	204.95	61.5	226.70	68.1	48.1 - 108		10.1	20	
4-Nitroaniline	1	333	196.99	59.2	216.66	65.1	38.6 - 133		9.51	21.7	
4-Nitrophenol	1	333	191.22	57.4	214.41	64.4	34.8 - 109		11.4	20	
Azobenzene	1	333	176.99	53.2	189.77	57	46.4 - 109		6.97	20	
Benzoic Acid	1	333	91.215	27.4	90.465	27.2	0 - 82		0.83	32.5	
Benzyl Alcohol	1	333	163.82	49.2	178.20	53.5	49.1 - 105		8.4	20	
Benzylbutyl phthalate	1	333	193.49	58.1	224.40	67.4	47.5 - 115		14.8	20	
Bis(2-chlorethoxy)methane	1	333	177.24	53.2	189.83	57	44.9 - 108		6.86	20	
Bis(2-chloroethyl)ether	1	333	157.38	47.3	163.05	49	32.5 - 112		3.54	26	
Bis(2-chloroisopropyl)ether	1	333	183.36	55.1	196.84	59.1	40.4 - 99		7.09	20.7	
Bis(2-ethylhexyl)phthalate	1	333	194.94	58.5	219.64	66	48.1 - 116		11.9	20.5	
Carbazole	1	333	206.27	61.9	226.89	68.1	52.4 - 102		9.52	21.1	
Dibenzofuran	1	333	212.34	63.8	233.58	70.1	48.6 - 104		9.53	20	
Diethyl phthalate	1	333	218.81	65.7	237.59	71.3	52 - 112		8.23	20	
Dimethyl phthalate	1	333	218.82	65.7	237.88	71.4	51.4 - 108		8.35	20	
Di-n-butyl phthalate	1	333	215.46	64.7	237.02	71.2	49.7 - 113		9.53	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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	189.90	57	214.50	64.4	49.6 - 112		12.2	22	
Hexachloro-1,3-butadiene	1	333	215.81	64.8	230.16	69.1	41.5 - 112		6.43	20	
Hexachlorobenzene	1	333	211.20	63.4	232.61	69.9	43.2 - 104		9.65	20.1	
Hexachloroethane	1	333	194.62	58.4	201.65	60.6	36.2 - 103		3.55	22.7	
Isophorone	1	333	213.64	64.2	226.97	68.2	28.8 - 104		6.05	20	
Nitrobenzene	1	333	195.96	58.8	208.90	62.7	40.7 - 109		6.39	21	
n-Nitrosodimethylamine	1	333	147.12	44.2	161.65	48.5	18.1 - 122		9.41	23.5	
n-Nitrosodi-n-propylamine	1	333	170.36	51.2	180.56	54.2	43.3 - 109		5.81	20	
n-Nitrosodiphenylamine	1	333	202.91	60.9	222.51	66.8	48.8 - 107		9.22	20	
Pentachlorophenol	1	333	212.44	63.8	231.10	69.4	16.2 - 102		8.42	22.9	
Phenol	1	333	185.92	55.8	197.49	59.3	41.5 - 106		6.04	20	

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1028A_02
Analyzed: 10/29/14 031600

	IS4		ACE		CHR		NAP	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	110112	5.07	284638	8.19	632816	12.67	446484	6.32
Upper Limit	220000	5.57	569000	8.69	1270000	13.17	893000	6.82
Lower Limit	55100	4.57	142000	7.69	316000	12.17	223000	5.82
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729564-01	137200	5.07	361547	8.18	746166	12.66	557074	6.32
L729564-02	152236	5.06	402028	8.18	880277	12.66	613295	6.32
L729564-04	137089	5.06	369039	8.18	768114	12.66	563232	6.32
L729564-05	129445	5.06	346105	8.18	696652	12.66	528460	6.32
LCSD WG751073	139446	5.07	371108	8.18	771212	12.66	569877	6.32
LCS WG751073	140290	5.07	373021	8.18	808284	12.66	570968	6.32
BLANK WG751073	139529	5.07	370808	8.18	792023	12.66	577459	6.32

Legend:
IS4 -- 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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1028A_02
Analyzed: 10/29/14 031600

	IS4		PER		PHEN	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	110112	5.07	642824	14.10	500322	9.80
Upper Limit	220000	5.57	1290000	14.60	1000000	10.30
Lower Limit	55100	4.57	321000	13.60	250000	9.30
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729564-01	137200	5.07	855764	14.10	637075	9.79
L729564-02	152236	5.06	950696	14.10	711307	9.79
L729564-04	137089	5.06	866941	14.10	642322	9.79
L729564-05	129445	5.06	814073	14.10	610366	9.79
LCSD WG751073	139446	5.07	867223	14.10	639785	9.79
LCS WG751073	140290	5.07	862402	14.10	646426	9.79
BLANK WG751073	139529	5.07	881696	14.10	654937	9.79

Legend:

IS4 -- 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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Surrogate Summary

			TBP		2-Fluorobiphenyl		2FP		Nitrobenzene-d5	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729564-01	BNAMS4	1028A_07	0.409	61.4	0.192	57.5	0.355	53.3	0.168	50.3
L729564-02	BNAMS4	1028A_08	0.427	64.2	0.200	60.1	0.366	54.9	0.173	52.1
L729564-04	BNAMS4	1028A_09	0.419	62.9	0.189	56.9	0.365	54.7	0.163	48.9
L729564-05	BNAMS4	1028A_10	0.405	60.8	0.215	64.4	0.405	60.8	0.192	57.8
LCS WG751073	BNAMS4	1028A_04	0.448	67.2	0.203	61.1	0.385	57.9	0.182	54.8
LCSD WG751073	BNAMS4	1028A_05	0.473	71.0	0.217	65.3	0.402	60.4	0.194	58.3
BLANK WG751073	BNAMS4	1028A_06	0.436	65.4	0.213	63.9	0.413	62.0	0.191	57.4

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.666 ppm	Limits: 21.6 - 142
2-Fluorobiphenyl --2-FLUOROBIPHENYL	True Value: 0.333 ppm	Limits: 34.9 - 129
2FP --2-FLUOROPHENOL	True Value: 0.666 ppm	Limits: 21.10 - 116
Nitrobenzene-d5 --NITROBENZENE-D5	True Value: 0.333 ppm	Limits: 21.9 - 129
p-Terphenyl-d14 --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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	p-Terphenyl-d14 ppm	p-Terphenyl-d14 % Rec	PHL ppm	PHL % Rec
L729564-01	BNAMS4	1028A_07	0.178	53.4	0.331	49.7
L729564-02	BNAMS4	1028A_08	0.180	54.0	0.351	52.8
L729564-04	BNAMS4	1028A_09	0.178	53.6	0.343	51.5
L729564-05	BNAMS4	1028A_10	0.187	56.3	0.366	54.9
LCS WG751073	BNAMS4	1028A_04	0.179	53.9	0.363	54.5
LCSD WG751073	BNAMS4	1028A_05	0.205	61.5	0.377	56.6
BLANK WG751073	BNAMS4	1028A_06	0.199	59.7	0.390	58.6

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.666 ppm	Limits: 21.6 - 142
2-Fluorobiphenyl --2-FLUOROBIPHENYL	True Value: 0.333 ppm	Limits: 34.9 - 129
2FP --2-FLUOROPHENOL	True Value: 0.666 ppm	Limits: 21.10 - 116
Nitrobenzene-d5 --NITROBENZENE-D5	True Value: 0.333 ppm	Limits: 21.9 - 129
p-Terphenyl-d14 --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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751073**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/27/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Instrument Performance Summary

FileID:1028A_01.D Date:10/29/2014 Time: 2:48 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	37.3
68	Less than 2% of mass 69	0.0
69	Less than 100% of mass 198	38.8
70	Less than 2% of mass 69	0.4
127	40 - 60% of mass 198	56.2
197	Less than 1% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5 - 9% of mass 198	6.7
275	10 - 30% of mass 198	25.9
365	1 - 100% of mass 198	3.6
441	Present, but less than mass 443	79.4
442	40 - 100% of mass 198	63.6
443	17 - 23% of mass 442	19.2

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG751073	LCS WG751073	1028A_04.D	10/29/2014	4:00 AM
LCSD WG751073	LCSD WG751073	1028A_05.D	10/29/2014	4:22 AM
Blank WG751073	Blank WG751073	1028A_06.D	10/29/2014	4:43 AM
TU904-SB05-NS01	L729564-01	1028A_07.D	10/29/2014	5:05 AM
TU904-SB05-NS02	L729564-02	1028A_08.D	10/29/2014	5:27 AM
TU904-SB08-NS01	L729564-04	1028A_09.D	10/29/2014	5:49 AM
TU904-SB08-NS02	L729564-05	1028A_10.D	10/29/2014	6:11 AM

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Quality Control Summary
SDG: L729564
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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Quality Control Summary
SDG: L729564
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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Quality Control Summary
SDG: L729564
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: L729564
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: L729564
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/29/2014
FileName : 1028A_02.D Time : 3:16 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
n-Nitrosodimethylamine	1.1418	0.8541	25.2		
Bis(2-chloroethyl)ether	1.1815	0.9544	19.2		
Phenol	1.7728	1.5564	12.2		
2-Chlorophenol	1.5436	1.5081	2.3		
1,4-Dichlorobenzene	1.7436	1.7987	3.16		
Benzyl Alcohol	1.2947	0.9615	25.7		
Bis(2-chloroisopropyl)ether	0.4998	0.4805	3.87		
2-Methylphenol	1.3956	1.2742	8.7		
Hexachloroethane	0.7492	0.7528	0.48		
n-Nitrosodi-n-propylamine	1.1729	0.9445	19.5	>0.05	
3&4-Methyl Phenol	1.6020	0.7272	54.6		
Nitrobenzene	0.3819	0.3750	1.81		
Isophorone	0.6693	0.6237	6.82		
2-Nitrophenol	0.1896	0.2118	11.7		
2,4-Dimethylphenol	0.3582	0.2930	18.2		
Bis(2-chlorethoxy)methane	0.4394	0.3944	10.2		
2,4-Dichlorophenol	0.3007	0.3244	7.89		
1,2,4-Trichlorobenzene	0.3357	0.3556	5.93		
4-Chloroaniline	0.1461	0.1297	11.2		
Hexachloro-1,3-butadiene	0.1874	0.2156	15		
4-Chloro-3-methylphenol	0.3423	0.3373	1.44		
Hexachlorocyclopentadiene	0.2814	0.2442	13.2	>0.05	
2,4,6-Trichlorophenol	0.3236	0.3650	12.8		
2,4,5-Trichlorophenol	0.3616	0.3930	8.7		
2-Chloronaphthalene	1.1906	1.2057	1.27		
2-Nitroaniline	0.3949	0.3942	0.19		
Dimethyl phthalate	1.3450	1.3733	2.11		
2,6-Dinitrotoluene	0.3024	0.3154	4.3		
3-Nitroaniline	0.3528	0.3493	1		
Acenaphthene	1.2432	1.2480	0.39		
2,4-Dinitrophenol	0.0936	0.1501	60.4	>0.05	**

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/29/2014
FileName : 1028A_02.D Time : 3:16 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dibenzofuran	1.7284	1.7496	1.23		
2,4-Dinitrotoluene	0.4048	0.4304	6.33		
4-Nitrophenol	0.2554	0.2415	5.44	>0.05	**
4-Chlorophenyl-phenylether	0.6220	0.6239	0.32		
Diethyl phthalate	1.4598	1.5167	3.9		
4-Nitroaniline	0.3609	0.3656	1.31		
1,2-Diphenylhydrazine	1.4935	1.2513	16.2		
4,6-Dinitro-2-methylphenol	0.1059	0.1270	20		**
n-Nitrosodiphenylamine	0.6776	0.6706	1.03		
4-Bromophenyl-phenylether	0.2075	0.2059	0.77		
Hexachlorobenzene	0.2340	0.2280	2.57		
Pentachlorophenol	0.1043	0.1119	7.27		**
Carbazole	1.1796	1.1616	1.52		
Di-n-butyl phthalate	1.6052	1.6556	3.14		
Fluoranthene	1.3964	1.3770	1.39		
Benzylbutyl phthalate	0.6813	0.6220	8.7		
Bis(2-ethylhexyl)phthalate	1.0559	0.9233	12.6		
Di-n-octyl phthalate	1.8324	1.6353	10.8		
Benzo(a)pyrene	1.1932	1.1619	2.63		

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/29/2014
FileName : 1028A_03.D Time : 3:38 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Benzoic acid	0.1517	0.1873	23.5	**

*** - calibrated by linear regression*

Raw Data

BNA SS Extractions Benchsheet

Batch #: WG751073

Analyst: TLB078 **Prep Start Date/Time:** 10/28/14 10:23:30 **Prep End Date/Time:** 10/29/14 03:55:32

Na2SO4: 14I15522 Amt. Used: 2 Exp. Date:03/15/15 **MeCl2:** 14J23413 Amt. Used: 25 Exp. Date:04/23/15 **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(L729453-15)		15	Dirt	25	0.5	Black	
MSD(L729453-15)		15	Dirt	25	0.5	Black	
1. L728963-04		2	Sludge	25	0.5	Yellow	samples are most likely to have high concentrations of solvents. - JCR 10/22
2. L729453-02		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
3. L729453-03		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
4. L729453-04		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
5. L729453-05		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
6. L729453-06		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
7. L729453-07		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
8. L729453-08		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
9. L729453-09		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
10. L729453-10		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
11. L729453-11		15	Dirt	25	0.5	Black	SPC subbed direct to A&B Lab PO#S20888
12. L729453-13		15	Dirt	25	0.5	Black	
13. L729453-14		15	Dirt	25	0.5	Black	

14. L729453-15		15	Dirt	25	0.5	Black	
15. L729453-16		15	Dirt	25	0.5	Black	
16. L729536-02		15	Dirt	25	0.5	Black	
17. L729564-01		15	Dirt	25	0.5	Colorless	EDD/QC4/DOD
18. L729564-02		15	Dirt	25	0.5	Colorless	EDD/QC4/DOD
19. L729564-04		15	Dirt	25	0.5	Colorless	EDD/QC4/DOD
20. L729564-05		15	Mud	25	0.5	Colorless	EDD/QC4/DOD

Comments:

Reviewed By:CJR140 on 10/29/14 03:55:32

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH

Released By : Chris McCord
Date Released : 10/29/2014 1:54:43 PM

Run ID : 102814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1028A_00	INSTBLK	S804J16N						1	1	10/29/14 0227	"instrument blank"
2	1028A_01	TUNE 50 PPM 14F19703	TUNEC						1	1	10/29/14 0248	"DFTPP"
3	1028A_01 T	TUNE 50 PPM 14F19703								1	10/29/14 0248	
4	1028A_02	ICV SVMS 10K PPB 14G09881	S804J16N						1	1	10/29/14 0316	"8270 Primary Standard"
5	1028A_03	ICV TCL 10K1 PPB 14G09882	S804J16N						1	1	10/29/14 0338	"8270 TCL Standard"
6	1028A_04	LCS	S804J16N	WG751073	SV8270	SS			1	0.0333	10/29/14 0400	"soil 14J08667/14J20252"
7	1028A_05	LCSD	S804J16N	WG751073	SV8270	SS			1	0.0333	10/29/14 0422	"soil 14J08667/14J20252"
8	1028A_06	BLANK	S804J16N	WG751073	SV8270	SS			1	0.0333	10/29/14 0443	"soil 14J08667/14J20252"
9	1028A_07	L729564-01	S804J16N	WG751073	SV8270	SS	URSTAZ	NM	1	0.0333	10/29/14 0505	"soil 14J08667/14J20252"
10	1028A_08	L729564-02	S804J16N	WG751073	SV8270	SS	URSTAZ	NM	1	0.0333	10/29/14 0527	"soil 14J08667/14J20252"
11	1028A_09	L729564-04	S804J16N	WG751073	SV8270	SS	URSTAZ	NM	1	0.0333	10/29/14 0549	"soil 14J08667/14J20252"
12	1028A_10	L729564-05	S804J16N	WG751073	SV8270	SS	URSTAZ	NM	1	0.0333	10/29/14 0611	"soil 14J08667/14J20252"
13	1028A_11	L729453-02	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0632	"soil 14J08667/14J20252"
14	1028A_12	L729453-03	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0654	"soil 14J08667/14J20252"
15	1028A_13	L729453-04	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0716	"soil 14J08667/14J20252"
16	1028A_14	L729453-05	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0738	"soil 14J08667/14J20252"
17	1028A_15	L729453-06	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0800	"soil 14J08667/14J20252"
18	1028A_16	L729453-07	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0821	"soil 14J08667/14J20252"
19	1028A_17	L729453-08	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0843	"soil 14J08667/14J20252"
20	1028A_18	L729453-09	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0905	"soil 14J08667/14J20252"
21	1028A_19	L729453-10	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0927	"soil 14J08667/14J20252"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH

Released By : Chris McCord
Date Released : 10/29/2014 1:54:43 PM

Run ID : 102814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1028A_20	L729453-11	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 0949	"soil 14J08667/14J20252"
23	1028A_21	L729453-13	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 1010	"soil 14J08667/14J20252"
24	1028A_22	L729453-14	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 1032	"soil 14J08667/14J20252"
25	1028A_23	L729453-15	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 1054	"soil 14J08667/14J20252"
26	1028A_24	L729453-16	S804J16N	WG751073	SV8270	SS	BNSF6TRC	TX	20	0.666	10/29/14 1116	"soil 14J08667/14J20252"
27	1028A_25	L728963-04	S804J16N	WG751073	SV8270	SS	CTEHLRAR	AR	150	5	10/29/14 1138	"soil 14J08667/14J20252"
28	1028A_26	DNR L729536-02	S804J16N	WG751073					20	0.666	10/29/14 1159	"soil 14J08667/14J20252"
29	1028A_27	L729536-02	S804J16N	WG751073	SV8270	SS	TERRASATX	TX	1	0.033	10/29/14 1311	"soil 14J08667/14J20252"

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:48 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:15 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)

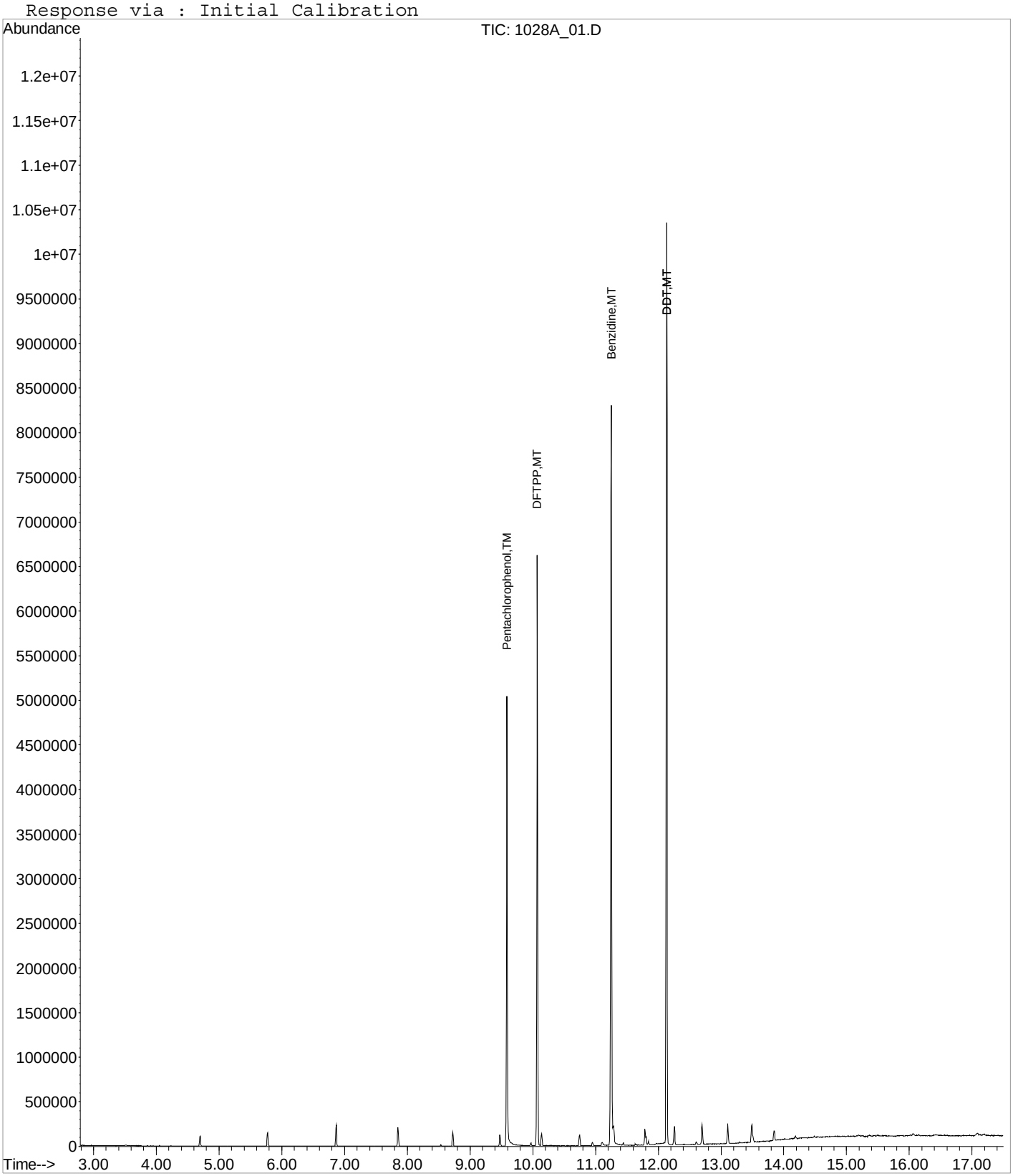
Target Compounds					Qvalue
1) Pentachlorophenol	9.59	264	331447	23.8812906 ug/mL	100
2) DFTPP	10.07	198	686948	28.7752221 ug/mL	100
3) Benzidine	11.25	184	3746207	25.4785708 ug/mL	100
4) DDT	12.13	TIC	10456339	159.6334016 ug/ml	100
5) DDT	12.13	235	1938930	144.0917286 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:48 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:15 2014 Quant Results File: TUNEC.RES

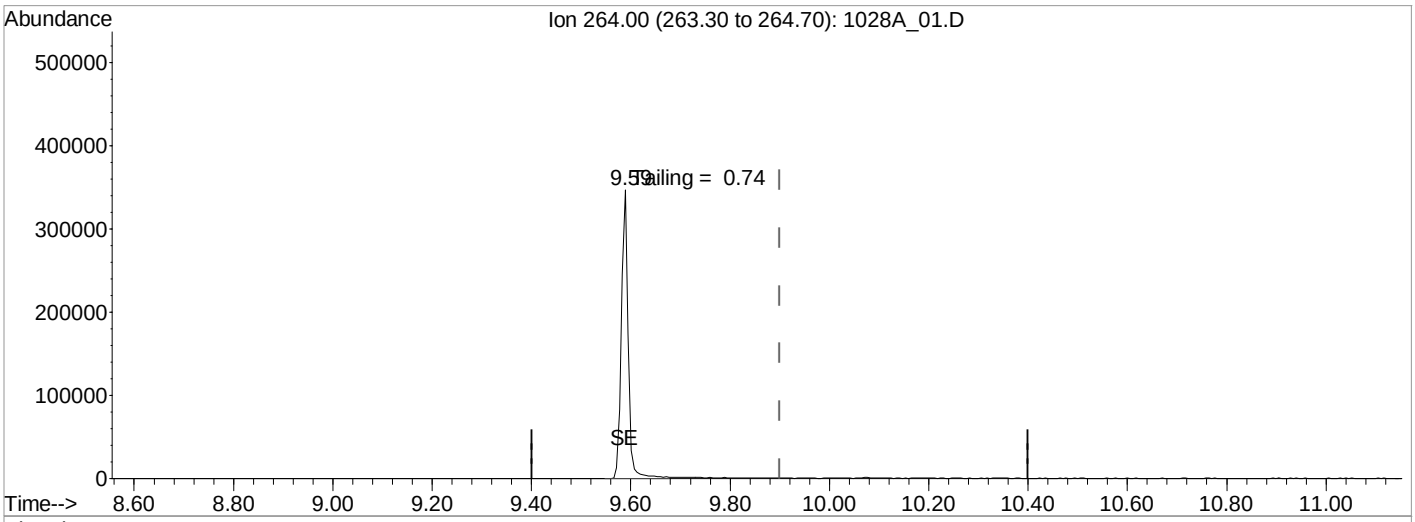
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration

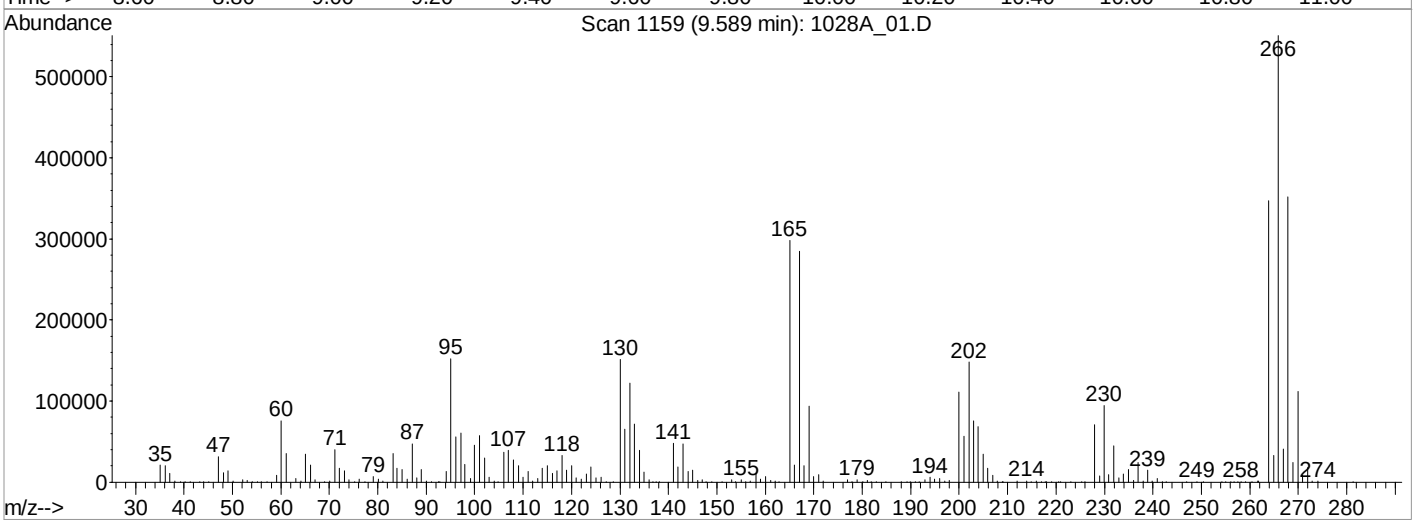


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:48 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:15 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: 1028A_01.D

(1) Pentachlorophenol (TM)

9.59min (-0.311) 23.8812906 ug/mL

Qvalue = 100

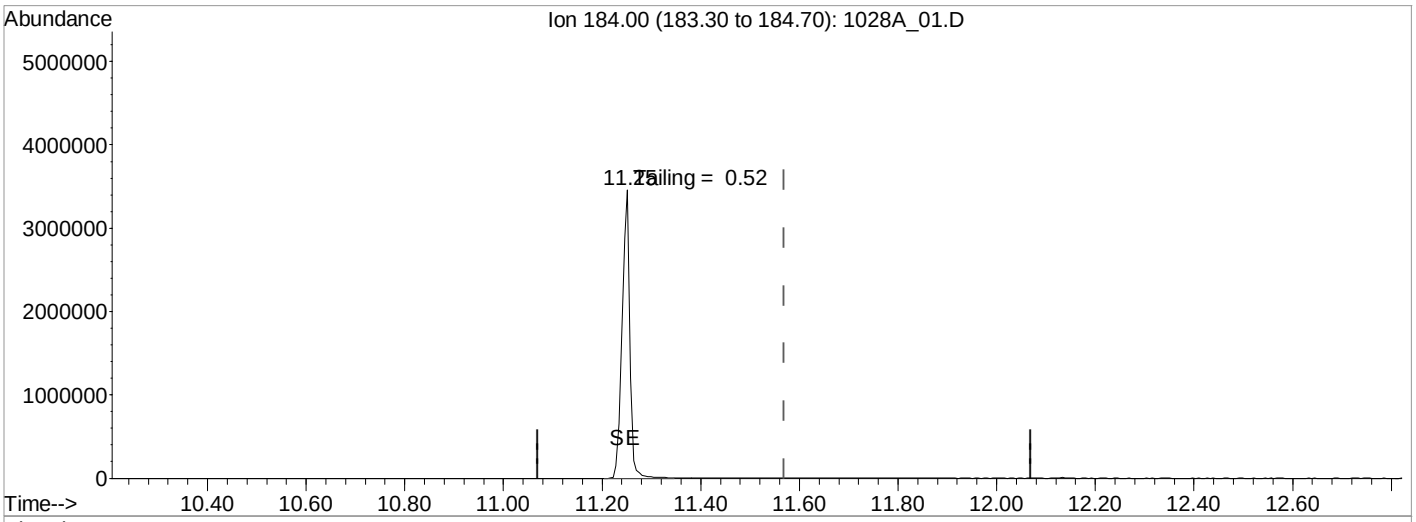
response 331447

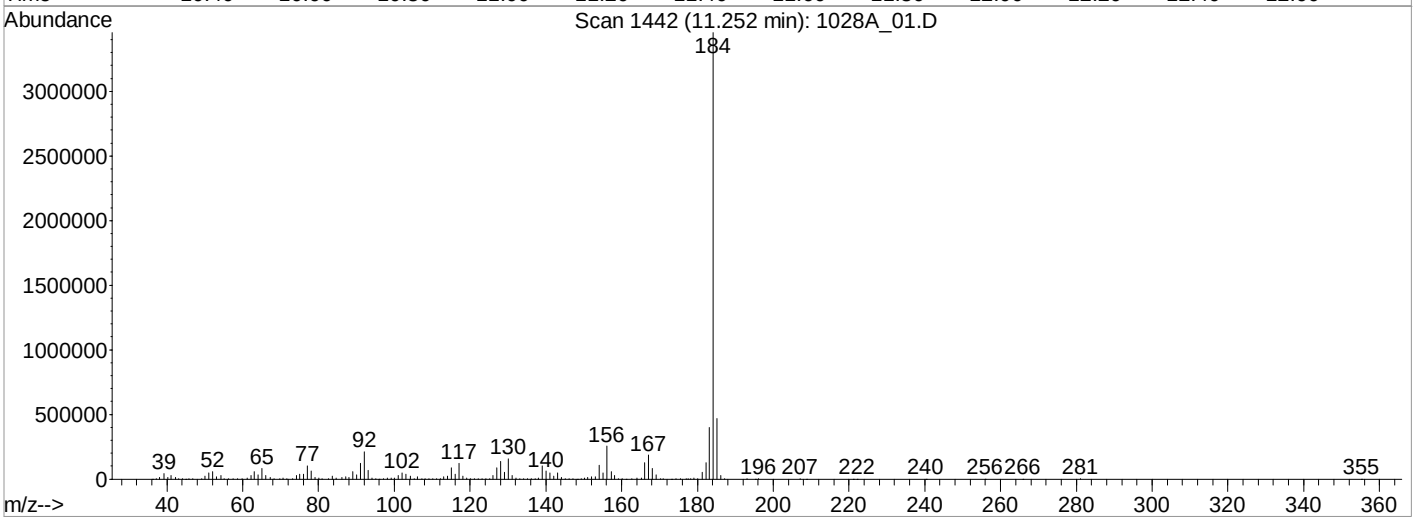
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:48 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:15 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: 1028A_01.D

(3) Benzidine (MT)

11.25min (-0.317) 25.4785708 ug/mL

Qvalue = 100

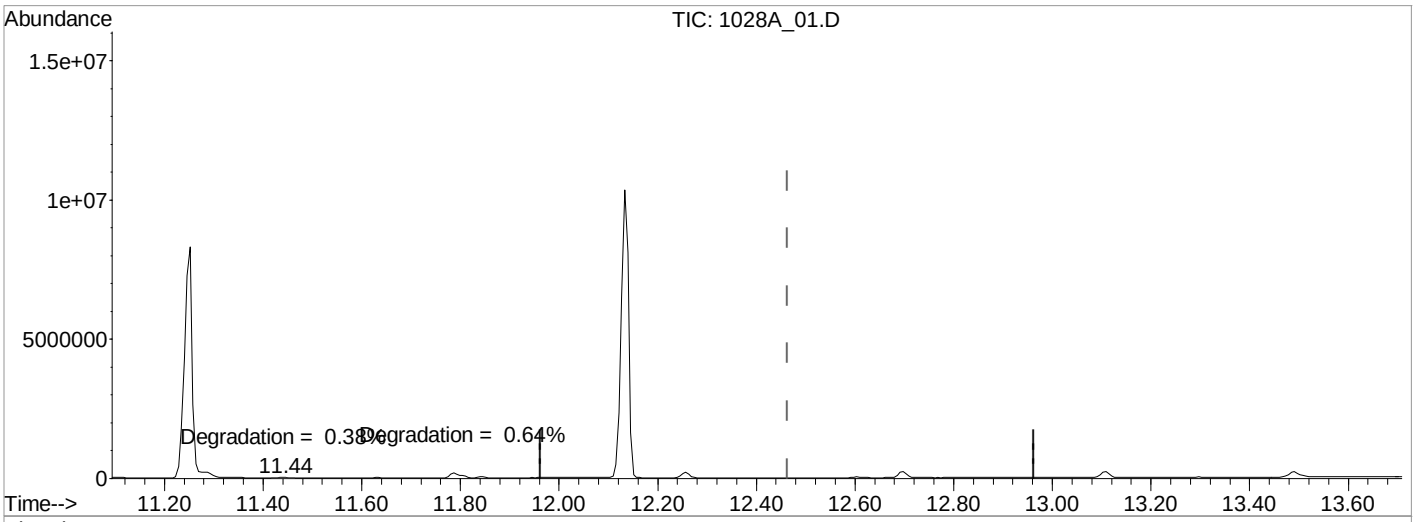
response 3746207

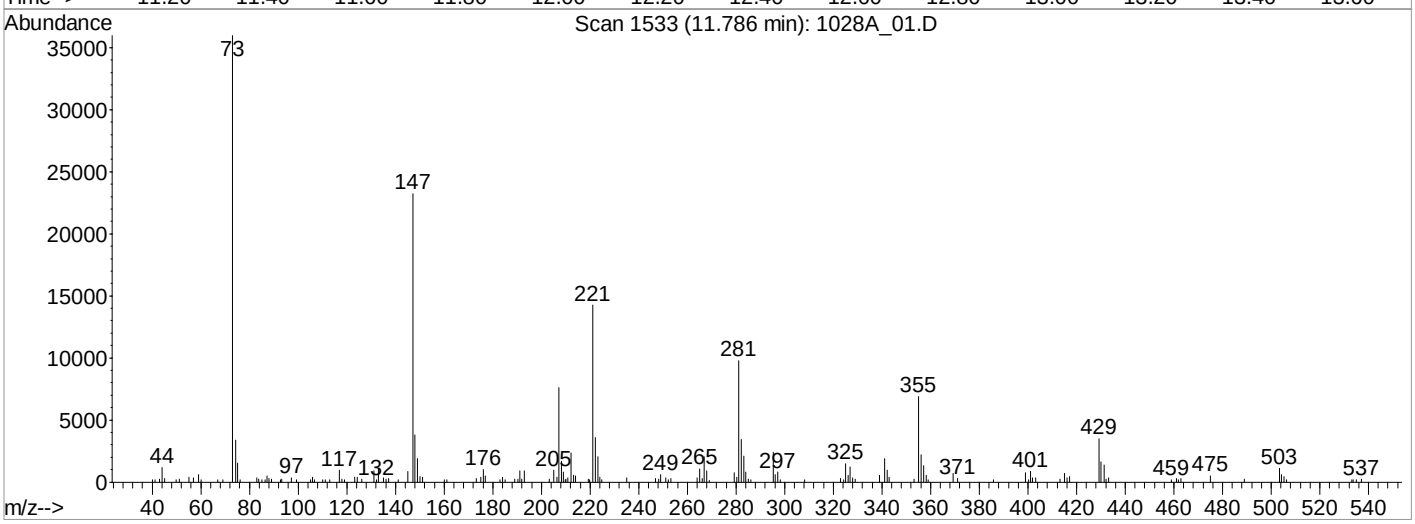
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:48 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 3:15 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: 1028A_01.D

(4) DDT (MT)

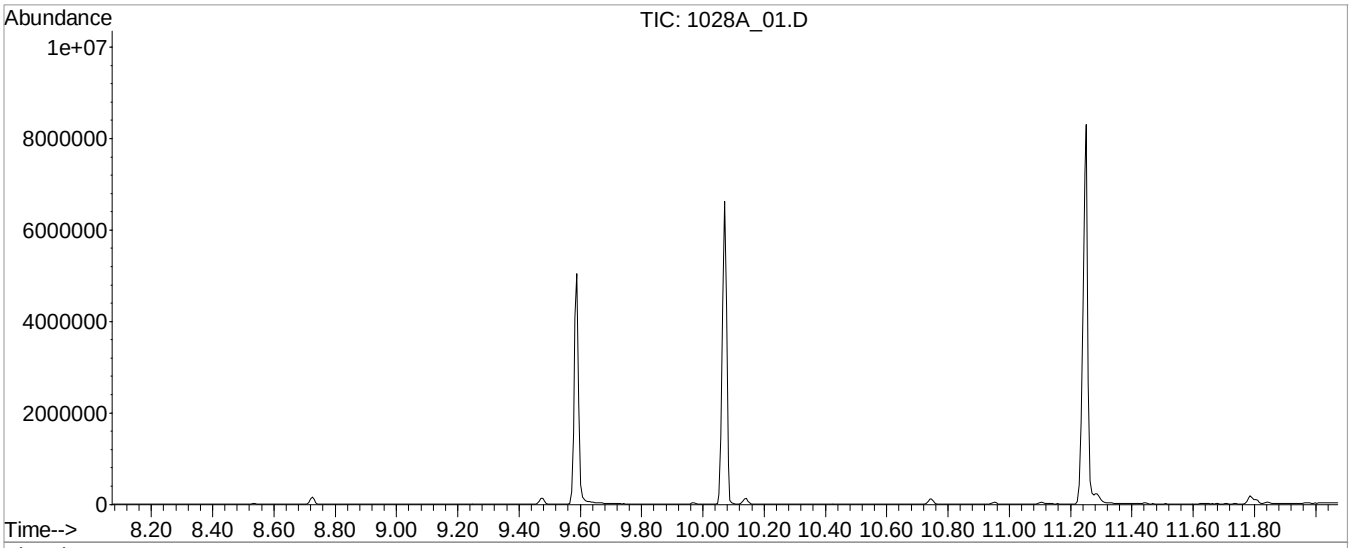
12.13min (-0.329) 159.6334016 ug/ml

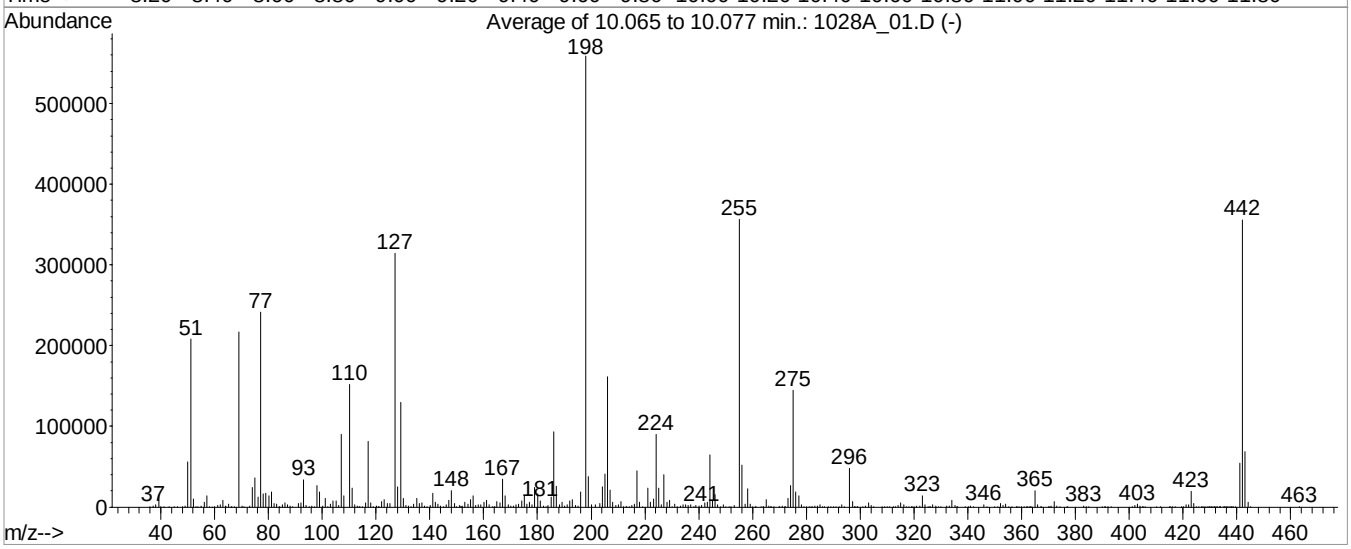
Qvalue = 100

response 10456339

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\102814A\1028A 01.D Vial: 1
Acq On : 29 Oct 2014 2:48 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





Spectrum Information: Average of 10.065 to 10.077 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.3	208512	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.8	216874	PASS
70	69	0.00	2	0.4	880	PASS
127	198	40	60	56.2	314282	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	558976	PASS
199	198	5	9	6.7	37408	PASS
275	198	10	30	25.9	144600	PASS
365	198	1	100	3.6	20228	PASS
441	443	0.01	100	79.4	54261	PASS
442	198	40	100	63.6	355392	PASS
443	442	17	23	19.2	68354	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:16 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 29 3:42 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	110112	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	446484	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	284638	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	500322	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	632816	8000.00 ppb	0.00
88) Perylene-d12	14.10	264	642824	8000.00 ppb	-0.01

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	184824	9522.3041087 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 47611.52%#		
7) Phenol-d5	4.72	99	213705	9031.1236269 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 45155.62%#		
23) Nitrobenzene-d5	5.59	82	207234	9591.0566413 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 95910.57%#		
44) 2-Fluorobiphenyl	7.46	172	502003	10435.1797707 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 104351.80%#		
67) 2,4,6-Tribromophenol	9.04	330	60044	10578.6852842 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 52893.43%#		
81) p-Terphenyl-d14	11.51	244	702974	9154.8703584 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 91548.70%#		

Target Compounds						Qvalue
2) Pyridine	2.98	79	204431	6606.8012137 ppb		94
3) N-Nitrosodimethylamine	2.96	42	117558	7480.2277968 ppb		87
5) Aniline	4.78	66	97523	8318.1451363 ppb		98
6) bis(2-Chloroethyl)ether	4.82	63	131359	8077.8711434 ppb		95
8) Phenol	4.73	94	214220	8779.1770289 ppb		95
9) Benzaldehyde	4.71	105	297	27.1185561 ppb	#	1
10) 2-Chlorophenol	4.88	128	207569	9769.7591555 ppb		92
11) n-Decane	4.91	41	109314	8654.3371042 ppb		99
12) 1,3-Dichlorobenzene	5.02	146	236360	10057.6001388 ppb		100
13) 1,4-Dichlorobenzene	5.09	146	247569	10315.6534002 ppb		97
14) Benzyl Alcohol	5.19	79	132336	7426.1130402 ppb		98
15) 1,2-Dichlorobenzene	5.23	146	232939	10140.9583155 ppb		97
16) bis(2-Chloroisopropyl)ethe	5.32	121	66137	9613.1883256 ppb		94
17) 2-Methylphenol	5.28	108	175383	9130.0849163 ppb		97
18) Hexachloroethane	5.55	117	103622	10048.0451240 ppb		96
19) N-Nitrosodi-n-propylamine	5.44	70	130000	8052.8644197 ppb		92
20) 3&4-Methyl phenol	5.43	107	200175	9078.1526411 ppb		96
21) Acetophenone	5.43	105	2139	78.2403250 ppb	#	1
24) Nitrobenzene	5.61	77	209289	9819.1009471 ppb		97
25) Isophorone	5.85	82	348084	9317.9928037 ppb		98
26) 2-Nitrophenol	5.93	139	118208	11169.1123128 ppb		93
27) 2,4-Dimethylphenol	5.96	107	163511	8178.2952116 ppb		95
28) bis(2-Chlorethoxy)methane	6.06	93	220134	8976.1327378 ppb		95
29) 2,4-Dichlorophenol	6.17	162	181055	10788.5536113 ppb		97
30) Benzoic Acid	5.96	105	5332	2655.4464037 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.26	180	198471	10593.4454295 ppb		96
32) Naphthalene	6.35	128	639072	9772.7819886 ppb		99
33) 4-Chloroaniline	6.39	65	72404	8881.4221170 ppb		88
34) Hexachloro-1,3-butadiene	6.47	225	120303	11504.2546617 ppb		95
35) Caprolactam	6.89	113	5622	968.4633771 ppb	#	15
36) 4-Chloro-3-methylphenol	6.89	107	188262	9855.7781841 ppb		99
37) 2-Methylnaphthalene	7.07	142	450741	9951.0408090 ppb		97
38) 1-Methylnaphthalene	7.17	142	418118	9932.8530440 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:16 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 29 3:42 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

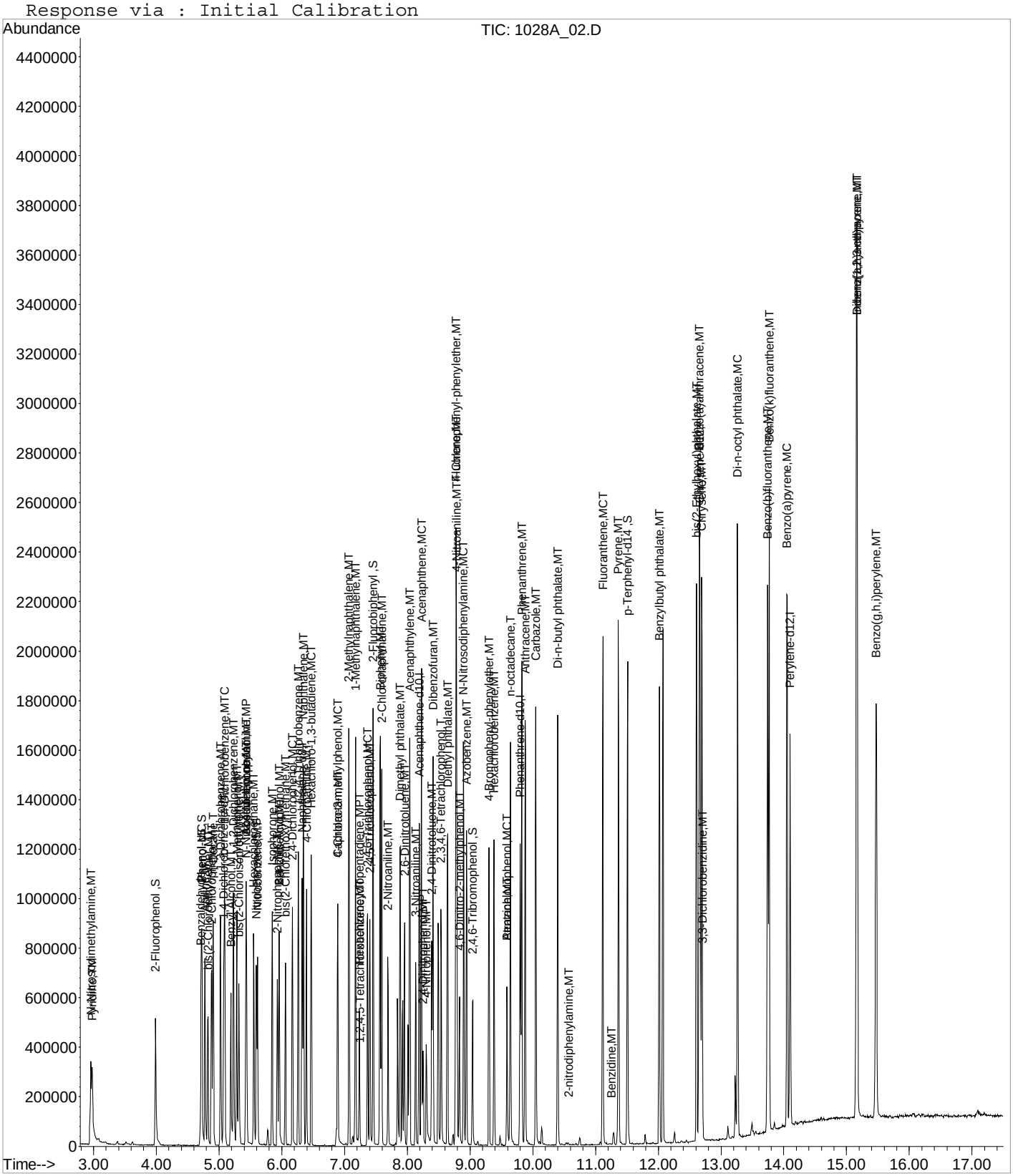
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	299	17.0171681 ppb	#	60
41)	Hexachlorocyclopentadiene	7.24	237	86868	8675.1266619 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	129857	11278.8604845 ppb		95
43)	2,4,5-Trichlorophenol	7.40	196	139841	10869.8333043 ppb		95
45)	Biphenyl	7.57	154	538029	10147.2037152 ppb		99
46)	2-Chloronaphthalene	7.59	162	429000	10127.3836795 ppb		98
47)	2-Nitroaniline	7.69	138	140249	9980.6579630 ppb	#	93
48)	Acenaphthylene	8.04	152	697353	9995.7214082 ppb		99
49)	Dimethyl phthalate	7.89	163	488621	10210.7572809 ppb		98
50)	2,6-Dinitrotoluene	7.96	165	112223	10429.7474833 ppb		93
51)	3-Nitroaniline	8.13	138	124269	9900.2264442 ppb		87
52)	Acenaphthene	8.23	153	444051	10038.6492014 ppb		99
53)	2,4-Dinitrophenol	8.25	184	53390	11878.9864413 ppb		85
54)	Dibenzofuran	8.41	168	622516	10122.6017645 ppb		93
55)	2,4-Dinitrotoluene	8.39	165	153129	10632.5709261 ppb		98
56)	2,3,4,6-Tetrachlorophenol	8.54	232	105791	13604.9822498 ppb		77
57)	4-Nitrophenol	8.30	139	85933	9262.5244725 ppb		88
58)	Fluorene	8.78	166	506879	9976.2034388 ppb		98
59)	4-Chlorophenyl-phenylether	8.77	204	221994	10031.6269096 ppb		91
60)	Diethyl phthalate	8.64	149	539652	10389.9782768 ppb		99
61)	4-Nitroaniline	8.79	138	130071	10130.5132112 ppb	#	85
62)	Azobenzene	8.94	77	445222	8378.5364497 ppb		95
63)	Atrazine	9.59	200	13870	1253.6688266 ppb	#	21
65)	4,6-Dinitro-2-methylphenol	8.83	198	79430	11176.2405344 ppb		93
66)	N-Nitrosodiphenylamine	8.90	169	419415	9896.7236389 ppb		97
68)	4-Bromophenyl-phenylether	9.30	248	128783	9923.3968703 ppb		92
69)	Hexachlorobenzene	9.38	284	142583	9742.6083347 ppb		99
70)	n-octadecane	9.64	55	75200	8454.5151146 ppb		94
71)	Pentachlorophenol	9.59	266	69972	10127.2315579 ppb		94
72)	Phenanthrene	9.82	178	724410	9781.4233651 ppb		96
73)	Anthracene	9.88	178	739865	9759.0046611 ppb		99
74)	Carbazole	10.05	167	726487	9847.6190026 ppb		99
75)	Di-n-butyl phthalate	10.40	149	1035426	10314.2378910 ppb		100
76)	2-nitrodiphenylamine	10.58	167	69	4.0376698 ppb	#	100
77)	Fluoranthene	11.12	202	861175	9860.7093275 ppb		99
79)	Benzidine	11.25	184	1439	759.9132151 ppb		93
80)	Pyrene	11.36	202	892970	8939.8038984 ppb		99
82)	Benzylbutyl phthalate	12.02	149	492008	9129.8352905 ppb		94
83)	3,3-Dichlorobenzidine	12.71	252	61	1.7072183 ppb	#	33
84)	Benzo(a)anthracene	12.66	228	889924	8587.2375241 ppb		94
85)	Chrysene	12.69	228	823387	8760.7889816 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.61	149	730386	8744.7701516 ppb		98
87)	Di-n-octyl phthalate	13.26	149	1293533	8924.4496615 ppb		100
89)	Benzo(b)fluoranthene	13.74	252	996982	9734.4448813 ppb		94
90)	Benzo(k)fluoranthene	13.77	252	882024	9486.8307329 ppb		95
91)	Benzo(a)pyrene	14.05	252	933586	9737.1553842 ppb		91
92)	Indeno(1,2,3-cd)pyrene	15.16	276	1149631	10888.7855374 ppb		89
93)	Dibenz(a,h)anthracene	15.16	278	977814	11094.4645995 ppb		92
94)	Benzo(g,h,i)perylene	15.47	276	941099	10741.3326125 ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:16 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 29 3:42 2014 Quant Results File: S804J16N.RES

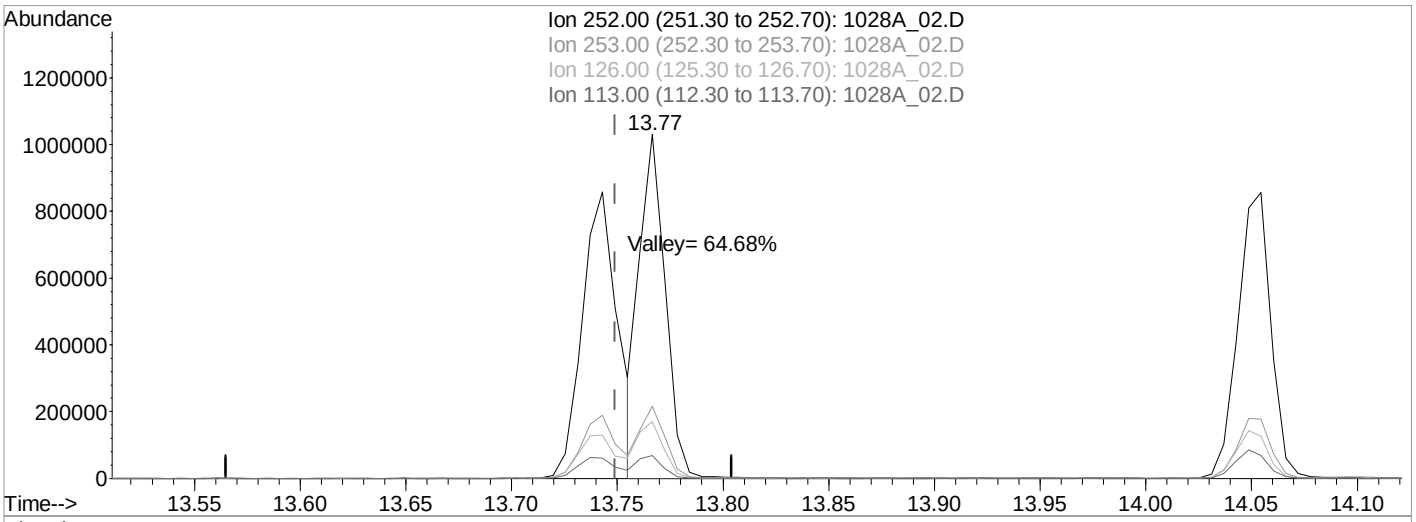
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

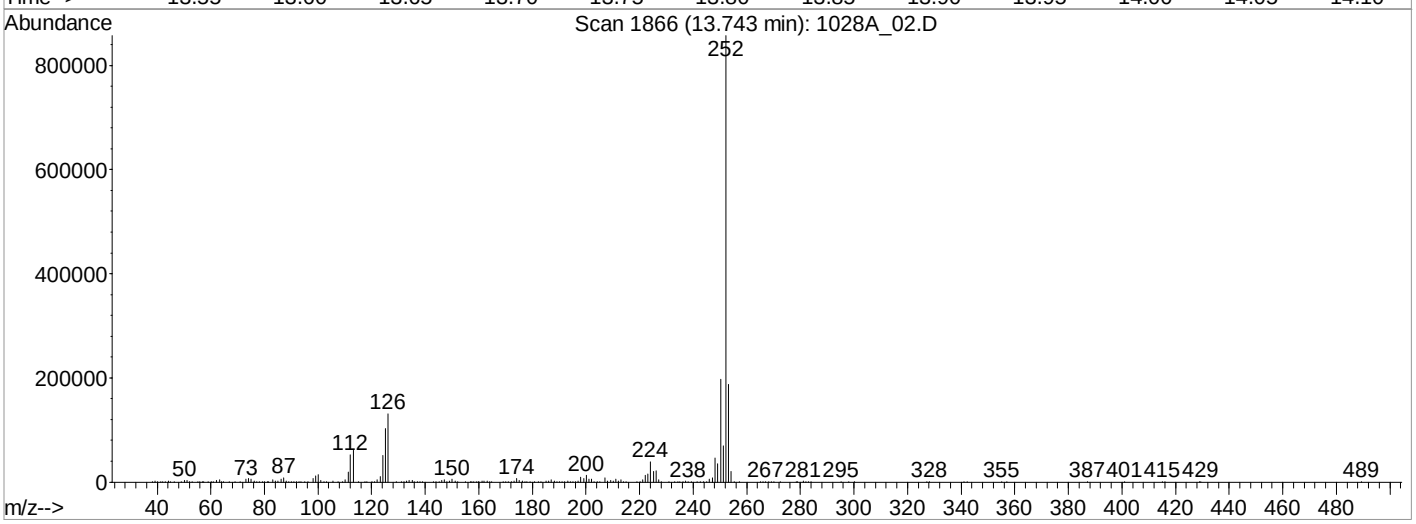


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 02.D Vial: 2
Acq On : 29 Oct 2014 3:16 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 29 3:42 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: 1028A_02.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 9734.4448813 ppb

Qvalue = 94

response 996982

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.82
126.00	19.90	14.12
113.00	9.50	6.81

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 03.D Vial: 3
Acq On : 29 Oct 2014 3:38 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 29 11:28 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	110523	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	454999	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	287322	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	513905	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	597513	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	697346	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery	= 0.00%#	
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	5.61	82	61	2.7703251 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery	= 27.70%#	
44) 2-Fluorobiphenyl	7.51	172	173	3.5625726 ppb	0.05
Spiked Amount 10.000	Range 35 - 133		Recovery	= 35.63%	
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	60	0.8275501 ppb	-0.01
Spiked Amount 10.000	Range 30 - 148		Recovery	= 8.28%#	

Target Compounds						Qvalue
2) Pyridine	2.95	79	59	1.8996714 ppb	#	22
3) N-Nitrosodimethylamine	2.93	42	106	6.7197093 ppb	#	1
5) Aniline	4.68	66	72	6.1183445 ppb	#	1
6) bis(2-Chloroethyl)ether	4.68	63	4492	275.2065850 ppb	#	9
8) Phenol	0.00	94	0	N.D.		
9) Benzaldehyde	4.68	105	117541	10692.5546864 ppb		96
10) 2-Chlorophenol	0.00	128	0	N.D.		
11) n-Decane	4.95	41	170	13.4087696 ppb	#	41
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
14) Benzyl Alcohol	0.00	79	0	N.D.		
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
16) bis(2-Chloroisopropyl)ethe	5.44	121	5796	839.3311128 ppb	#	1
17) 2-Methylphenol	0.00	108	0	N.D.		
18) Hexachloroethane	5.45	117	62	5.9896753 ppb	#	10
19) N-Nitrosodi-n-propylamine	5.46	70	74	4.5668920 ppb	#	48
20) 3&4-Methyl phenol	5.44	107	1568	70.8460576 ppb	#	1
21) Acetophenone	5.44	105	275032	10022.7079163 ppb		95
24) Nitrobenzene	5.44	77	207056	9532.5392033 ppb	#	59
25) Isophorone	5.82	82	53	1.3922257 ppb		58
26) 2-Nitrophenol	0.00	139	0	N.D.		
27) 2,4-Dimethylphenol	6.00	107	65	3.1902493 ppb	#	1
28) bis(2-Chlorethoxy)methane	6.03	93	62	2.4807859 ppb	#	7
29) 2,4-Dichlorophenol	0.00	162	0	N.D.		
30) Benzoic Acid	6.03	105	106545	12627.1124927 ppb		92
31) 1,2,4-Trichlorobenzene	6.26	180	718	37.6062543 ppb	#	78
32) Naphthalene	6.34	128	2768	41.5365063 ppb		93
33) 4-Chloroaniline	6.32	65	1783	214.6183014 ppb	#	1
34) Hexachloro-1,3-butadiene	6.37	225	55	5.1610751 ppb	#	22
35) Caprolactam	6.73	113	52666	8902.6265125 ppb	#	81
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.		
37) 2-Methylnaphthalene	6.92	142	56	1.2131791 ppb	#	73
38) 1-Methylnaphthalene	7.24	142	1332	31.0509455 ppb	#	45

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 03.D Vial: 3
Acq On : 29 Oct 2014 3:38 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 29 11:28 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

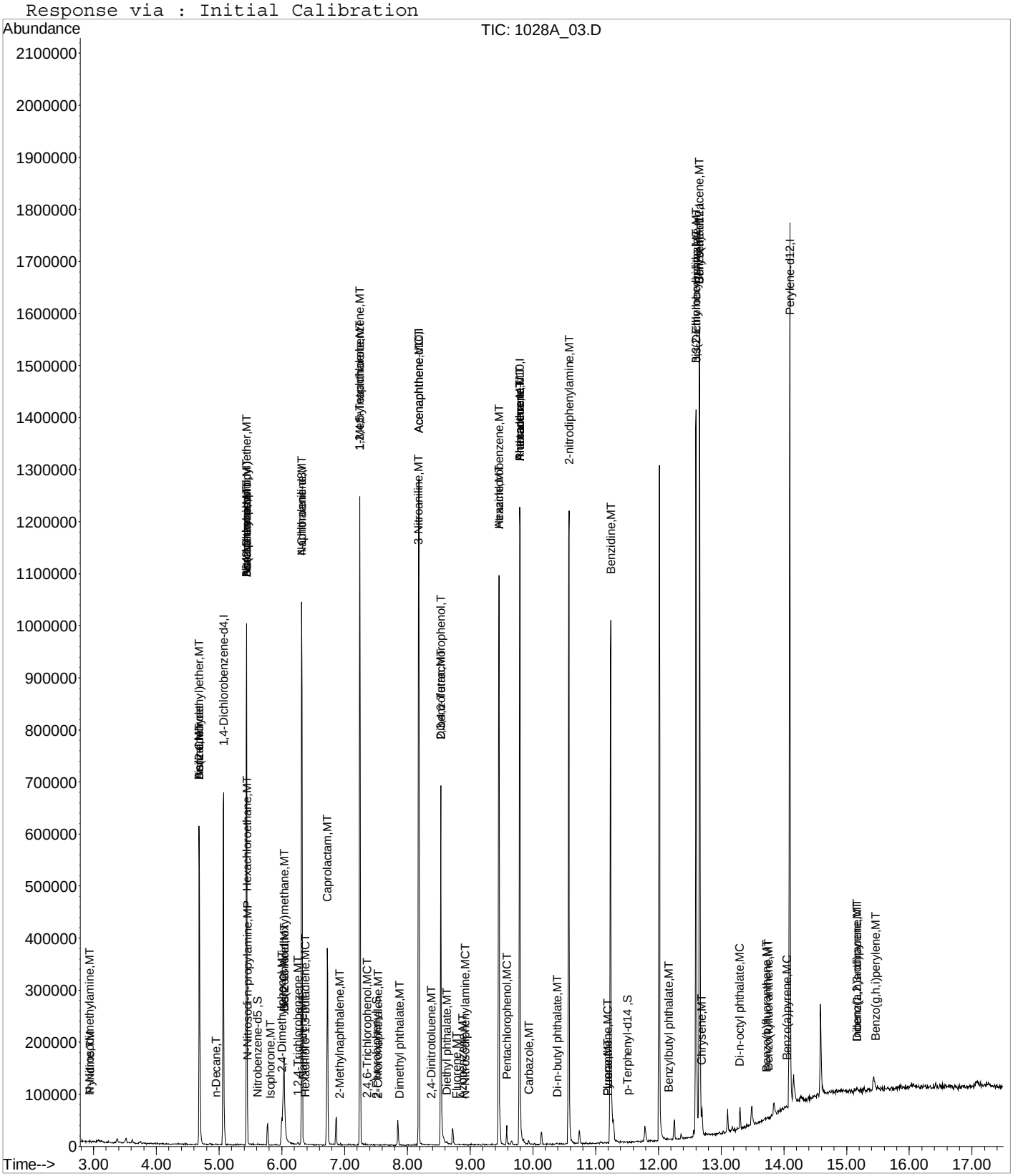
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	191625	10701.9699574 ppb		98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	7.36	196	80	6.8835718 ppb	#	15
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	7.53	162	57	1.3330266 ppb	#	43
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	7.88	163	62	1.2835167 ppb	#	65
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	8.17	138	109	8.6026612 ppb	#	50
52)	Acenaphthene	8.18	153	69	1.5453096 ppb	#	1
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.53	168	30659	493.8824764 ppb	#	45
55)	2,4-Dinitrotoluene	8.38	165	110	7.5665434 ppb	#	30
56)	2,3,4,6-Tetrachlorophenol	8.53	232	87022	11086.7005085 ppb		79
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	8.78	166	54	1.0528797 ppb	#	17
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	8.63	149	510	9.7273608 ppb	#	64
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	8.88	77	54	1.0067214 ppb	#	4
63)	Atrazine	9.46	200	127766	11440.5173132 ppb	#	83
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	8.92	169	63	1.4472874 ppb	#	31
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	9.47	284	70	4.6566360 ppb	#	31
70)	n-octadecane	9.79	55	637	69.7231586 ppb	#	1
71)	Pentachlorophenol	9.58	266	3756	1873.7534315 ppb		90
72)	Phenanthrene	9.79	178	140	1.8404008 ppb	#	1
73)	Anthracene	9.79	178	140	1.7978267 ppb	#	1
74)	Carbazole	9.94	167	68	0.8973855 ppb	#	1
75)	Di-n-butyl phthalate	10.39	149	610	5.9158162 ppb		79
76)	2-nitrodiphenylamine	10.58	167	192223	10951.0010026 ppb	#	100
77)	Fluoranthene	11.19	202	55	0.6131210 ppb	#	10
79)	Benzidine	11.24	184	460247	8737.0906628 ppb		100
80)	Pyrene	11.19	202	55	0.5831549 ppb	#	11
82)	Benzylbutyl phthalate	12.16	149	89	1.7490848 ppb		86
83)	3,3-Dichlorobenzidine	12.60	252	330480	9795.6781604 ppb		98
84)	Benzo(a)anthracene	12.66	228	1876	19.1718262 ppb	#	1
85)	Chrysene	12.69	228	86	0.9690981 ppb	#	54
86)	bis(2-Ethylhexyl)phthalate	12.60	149	9501	120.4745658 ppb		83
87)	Di-n-octyl phthalate	13.29	149	1435	10.4854223 ppb		75
89)	Benzo(b)fluoranthene	13.72	252	194	1.7461010 ppb		64
90)	Benzo(k)fluoranthene	13.75	252	294	2.9149550 ppb	#	10
91)	Benzo(a)pyrene	14.05	252	151	1.4517722 ppb	#	12
92)	Indeno(1,2,3-cd)pyrene	15.17	276	63	0.5500540 ppb	#	1
93)	Dibenz(a,h)anthracene	15.16	278	65	0.6798408 ppb	#	26
94)	Benzo(g,h,i)perylene	15.47	276	140	1.4729726 ppb	#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 03.D Vial: 3
Acq On : 29 Oct 2014 3:38 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 29 11:28 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\102814A\1028A 04.D Vial: 33
Acq On : 29 Oct 2014 4:00 am Operator: 280
Sample : LCS 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:37 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	140290	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	570968	8000.00 ppb	0.00
40) Acenaphthene-d10	8.18	164	373021	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	646426	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	808284	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	862402	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	286275	385.4954662 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 57.88%		
7) Phenol-d5	4.71	99	328847	363.2228464 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 54.54%		
23) Nitrobenzene-d5	5.59	82	151310	182.3523827 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 54.76%		
44) 2-Fluorobiphenyl	7.45	172	385054	203.3850810 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 61.08%		
67) 2,4,6-Tribromophenol	9.04	330	98583	447.6505562 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 67.21%		
81) p-Terphenyl-d14	11.50	244	528344	179.3855344 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 53.87%		

Target Compounds						Qvalue
2) Pyridine	2.98	79	81487	68.8311436 ppb		92
3) N-Nitrosodimethylamine	2.95	42	88465	147.1249357 ppb		82
5) Aniline	4.77	66	62429	139.1739613 ppb		100
6) bis(2-Chloroethyl)ether	4.82	63	97917	157.3792081 ppb		94
8) Phenol	4.72	94	173574	185.9219358 ppb		94
9) Benzaldehyde	4.68	105	32007	76.3848538 ppb		94
10) 2-Chlorophenol	4.88	128	159966	196.7891814 ppb		94
11) n-Decane	4.90	41	88102	182.3038995 ppb	#	99
12) 1,3-Dichlorobenzene	5.02	146	173267	192.7029704 ppb		98
13) 1,4-Dichlorobenzene	5.08	146	172573	187.9427155 ppb		96
14) Benzyl Alcohol	5.18	79	111697	163.8238886 ppb		95
15) 1,2-Dichlorobenzene	5.23	146	165468	188.2794746 ppb		97
16) bis(2-Chloroisopropyl)ethe	5.31	121	48264	183.3573994 ppb		93
17) 2-Methylphenol	5.28	108	137353	186.8863753 ppb		97
18) Hexachloroethane	5.55	117	76790	194.6195407 ppb		94
19) N-Nitrosodi-n-propylamine	5.43	70	105220	170.3560265 ppb		93
20) 3&4-Methyl phenol	5.42	107	174935	207.3559597 ppb		95
21) Acetophenone	5.44	105	218132	208.5409807 ppb	#	80
24) Nitrobenzene	5.61	77	160401	195.9615015 ppb		95
25) Isophorone	5.84	82	306487	213.6430320 ppb		99
26) 2-Nitrophenol	5.92	139	93076	229.0065292 ppb		96
27) 2,4-Dimethylphenol	5.95	107	161848	210.7955851 ppb		96
28) bis(2-Chlorethoxy)methane	6.05	93	166928	177.2432465 ppb		95
29) 2,4-Dichlorophenol	6.16	162	143607	222.8264165 ppb		96
30) Benzoic Acid	5.99	105	7794m	91.2148846 ppb		
31) 1,2,4-Trichlorobenzene	6.26	180	144887	201.3761163 ppb		97
32) Naphthalene	6.34	128	484573	192.9594256 ppb		99
33) 4-Chloroaniline	6.39	65	51184	163.4905067 ppb		89
34) Hexachloro-1,3-butadiene	6.46	225	86668	215.8137787 ppb		95
35) Caprolactam	6.73	113	44875	201.2960198 ppb	#	77
36) 4-Chloro-3-methylphenol	6.89	107	159369	217.2553426 ppb		98
37) 2-Methylnaphthalene	7.07	142	329134	189.2136904 ppb	#	95
38) 1-Methylnaphthalene	7.17	142	348090	215.3302565 ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 33
Acq On : 29 Oct 2014 4:00 am Operator: 280
Sample : LCS 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:37 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

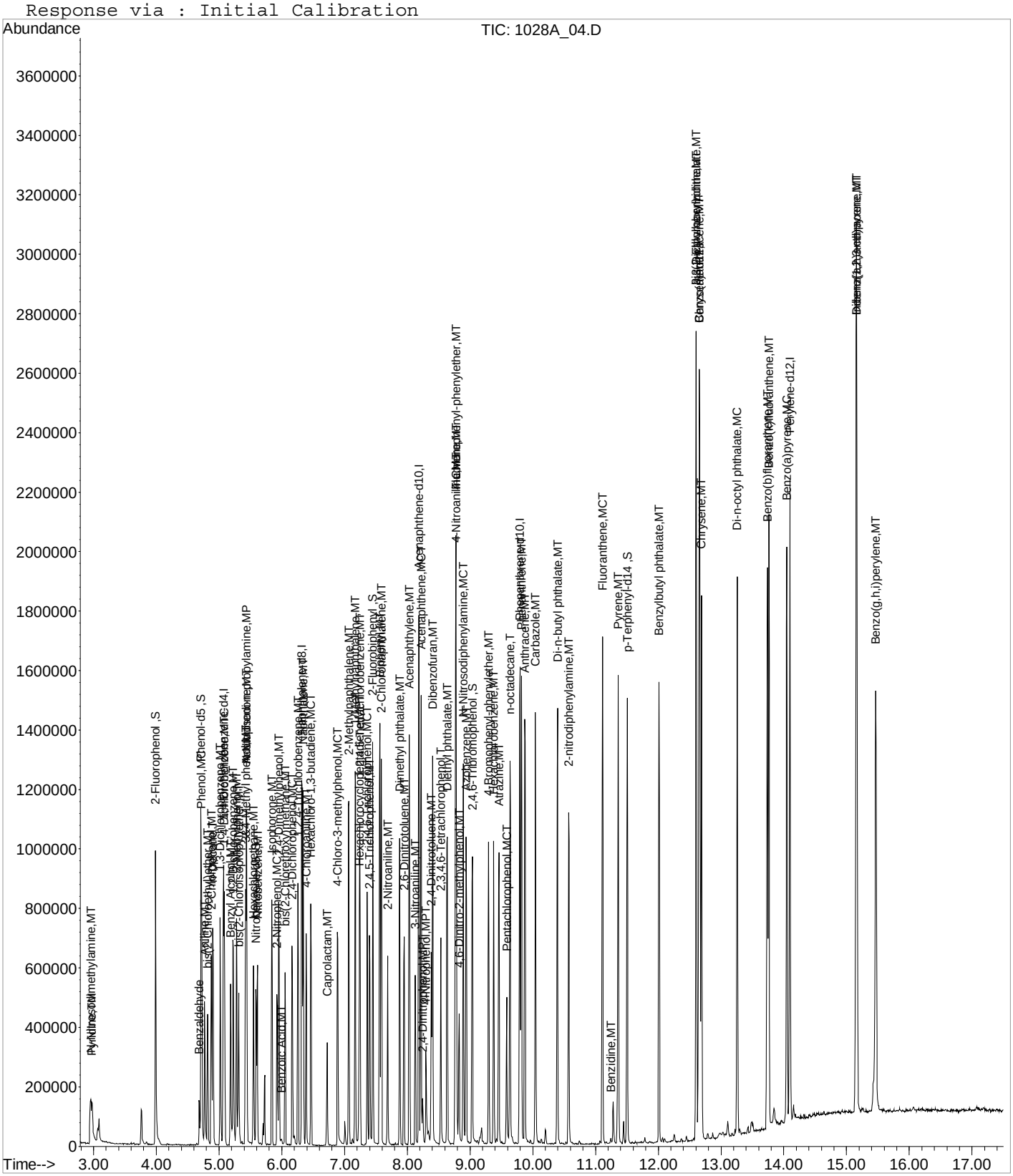
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	152833	226.5017723 ppb		98
41)	Hexachlorocyclopentadiene	7.23	237	61876	157.0153325 ppb		98
42)	2,4,6-Trichlorophenol	7.36	196	103827	229.1469048 ppb		97
43)	2,4,5-Trichlorophenol	7.40	196	111044	219.3245723 ppb		91
45)	Biphenyl	7.56	154	436973	209.4108253 ppb		98
46)	2-Chloronaphthalene	7.59	162	355261	213.1038697 ppb		97
47)	2-Nitroaniline	7.69	138	122350	221.2418104 ppb	#	91
48)	Acenaphthylene	8.03	152	582354	212.1057116 ppb		99
49)	Dimethyl phthalate	7.88	163	412096	218.8205243 ppb		97
50)	2,6-Dinitrotoluene	7.95	165	96210	227.2039957 ppb		92
51)	3-Nitroaniline	8.13	138	88181	178.5094348 ppb		91
52)	Acenaphthene	8.22	153	360933	207.3351082 ppb		98
53)	2,4-Dinitrophenol	8.24	184	22047	178.7326621 ppb	#	91
54)	Dibenzofuran	8.40	168	513902	212.3370463 ppb		93
55)	2,4-Dinitrotoluene	8.38	165	127527	225.0022267 ppb		98
56)	2,3,4,6-Tetrachlorophenol	8.54	232	79487	259.7461948 ppb		92
57)	4-Nitrophenol	8.30	139	65979	191.2224843 ppb	#	88
58)	Fluorene	8.78	166	421748	210.9200475 ppb		98
59)	4-Chlorophenyl-phenylether	8.77	204	178487	204.9465235 ppb		91
60)	Diethyl phthalate	8.64	149	447265	218.8112231 ppb		98
61)	4-Nitroaniline	8.78	138	99536	196.9858282 ppb	#	83
62)	Azobenzene	8.94	77	370136	176.9932505 ppb		96
63)	Atrazine	9.46	200	119193	273.7542986 ppb	#	83
65)	4,6-Dinitro-2-methylphenol	8.83	198	57901	230.1464583 ppb		92
66)	N-Nitrosodiphenylamine	8.89	169	333635	202.9056340 ppb		99
68)	4-Bromophenyl-phenylether	9.30	248	105399	209.3212554 ppb		93
69)	Hexachlorobenzene	9.38	284	119924	211.1974250 ppb		98
70)	n-octadecane	9.64	55	70739	204.9768421 ppb		90
71)	Pentachlorophenol	9.58	266	51499	212.4359795 ppb		90
72)	Phenanthrene	9.82	178	587329	204.3967954 ppb		96
73)	Anthracene	9.88	178	611704	207.9550064 ppb		99
74)	Carbazole	10.04	167	590427	206.2740603 ppb		99
75)	Di-n-butyl phthalate	10.39	149	839213	215.4593266 ppb		100
76)	2-nitrodiphenylamine	10.57	167	178642	269.4264946 ppb	#	100
77)	Fluoranthene	11.11	202	688775	203.2680571 ppb		99
79)	Benzidine	11.24	184	11377m	29.3871044 ppb		
80)	Pyrene	11.36	202	727947	189.9978064 ppb		99
82)	Benzylbutyl phthalate	12.01	149	399948	193.4870977 ppb		98
83)	3,3-Dichlorobenzidine	12.60	252	194350	141.8082446 ppb		98
84)	Benzo(a)anthracene	12.65	228	716352	180.2124276 ppb		94
85)	Chrysene	12.69	228	666545	184.8955214 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.60	149	624511	194.9367647 ppb		97
87)	Di-n-octyl phthalate	13.26	149	1055755	189.8999197 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	801296	194.1973991 ppb		95
90)	Benzo(k)fluoranthene	13.76	252	738817	197.2441768 ppb		98
91)	Benzo(a)pyrene	14.05	252	779059	201.6855020 ppb		93
92)	Indeno(1,2,3-cd)pyrene	15.16	276	943732	221.8687930 ppb		89
93)	Dibenz(a,h)anthracene	15.16	278	804841	226.6661933 ppb		91
94)	Benzo(g,h,i)perylene	15.46	276	783533	221.9763504 ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 33
Acq On : 29 Oct 2014 4:00 am Operator: 280
Sample : LCS 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:37 2014 Quant Results File: S804J16N.RES

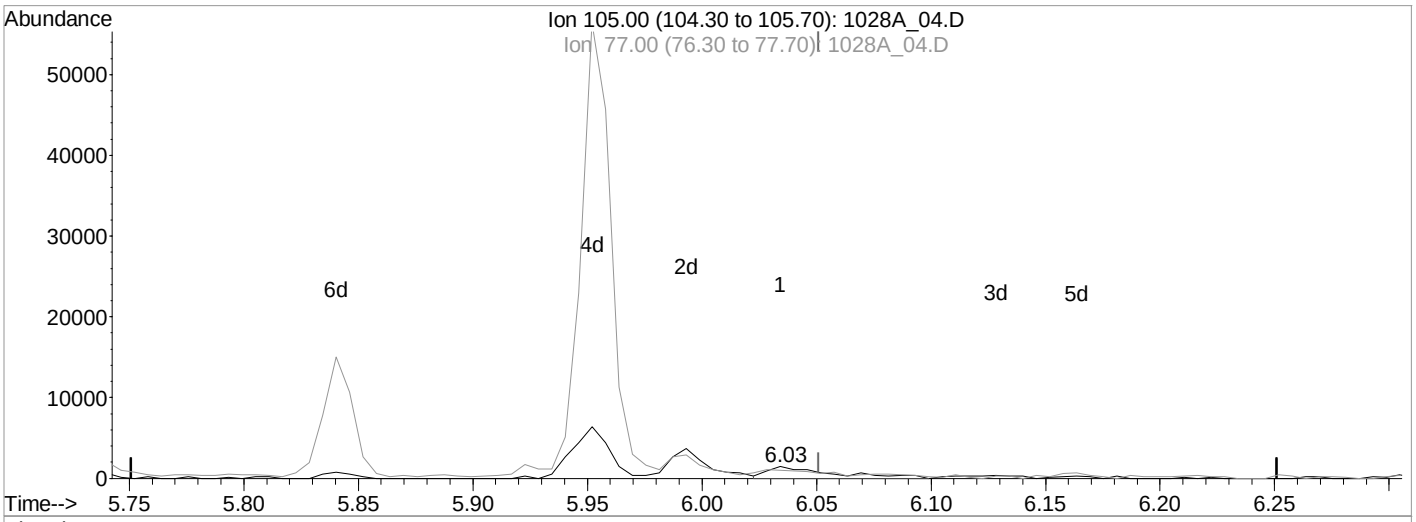
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

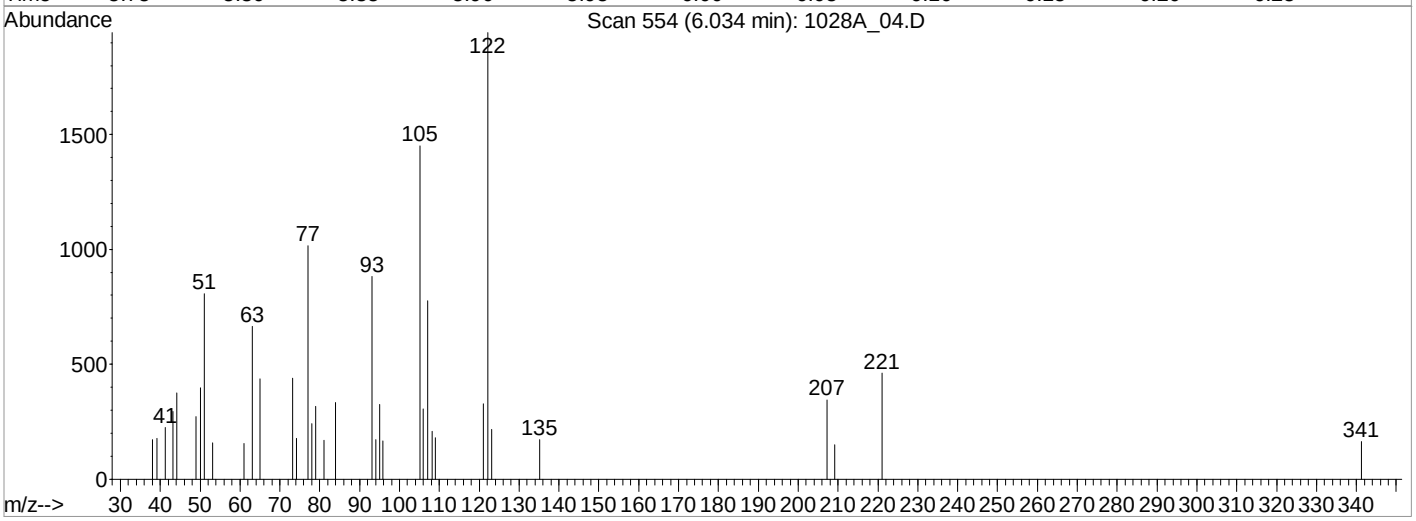


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 33
Acq On : 29 Oct 2014 4:00 am Operator: 280
Sample : LCS 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:28 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: 1028A_04.D

(30) Benzoic Acid (MT)

6.03min (-0.017) 76.9114078 ppb

Qvalue = 17

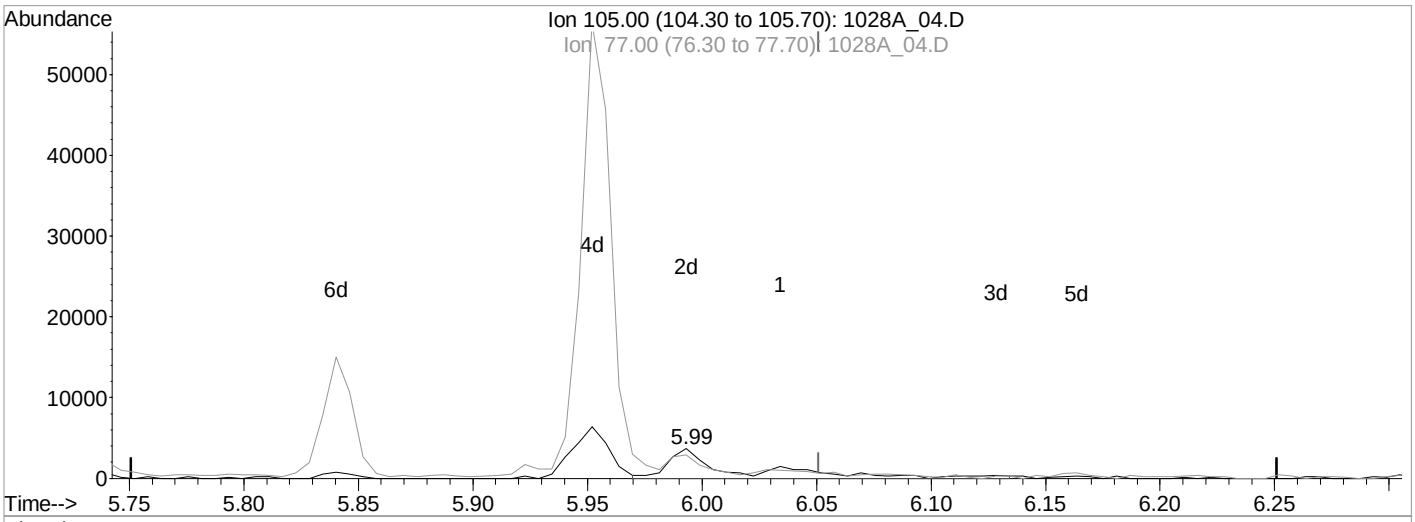
response 2807

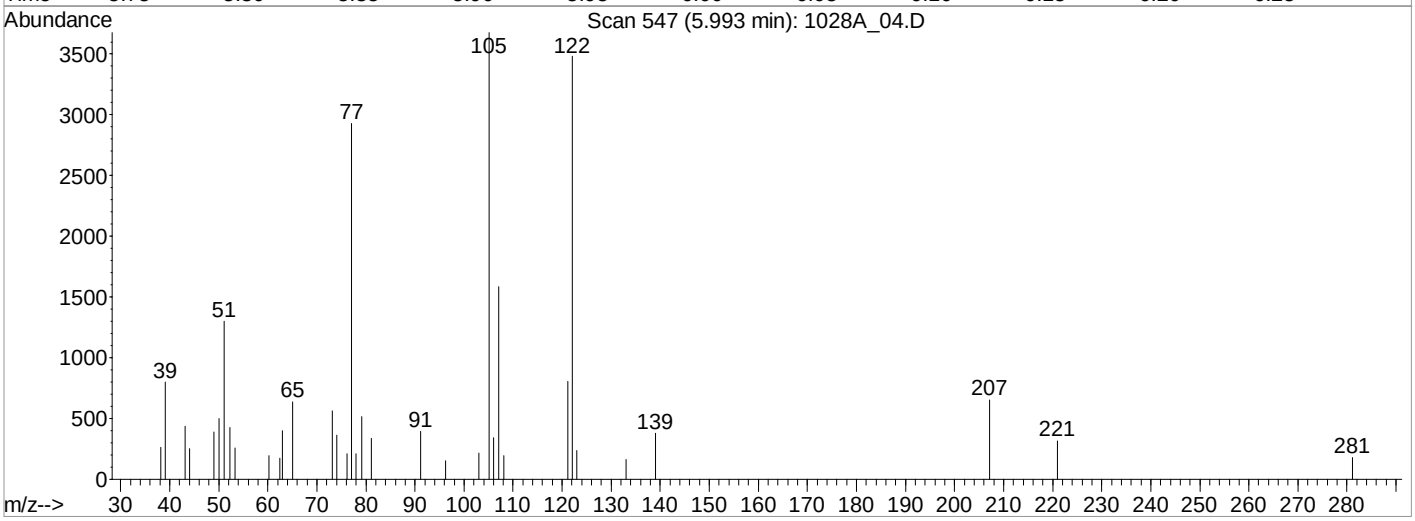
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 33
Acq On : 29 Oct 2014 4:00 am Operator: 280
Sample : LCS 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:36 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: 1028A_04.D

(30) Benzoic Acid (MT)

5.99min (-0.058) 91.2148846 ppb m

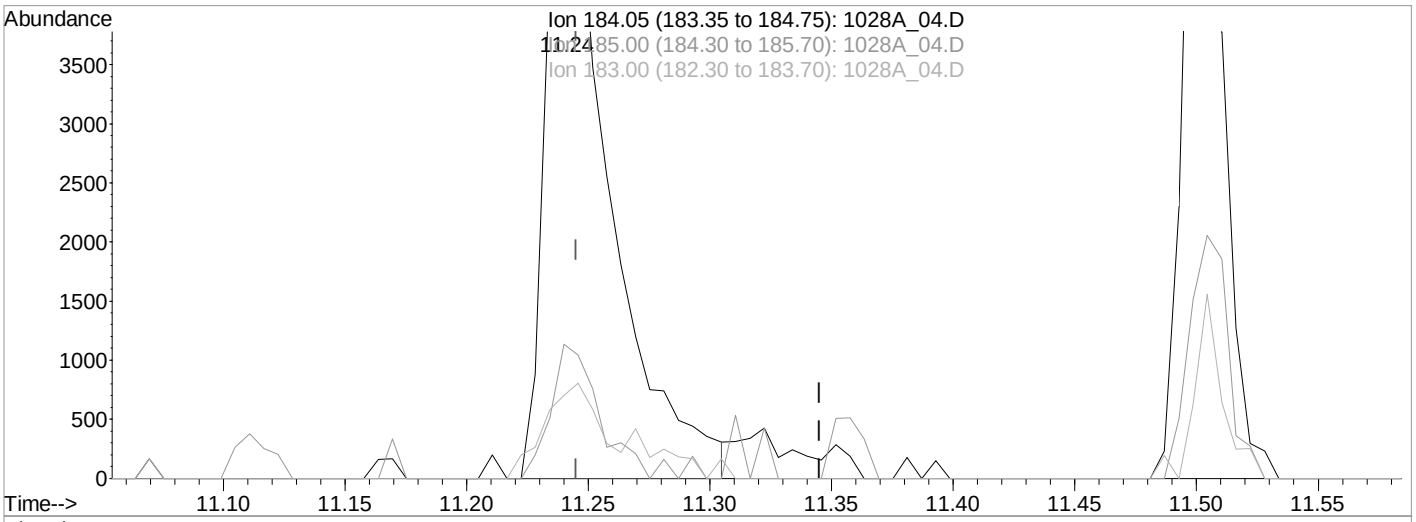
response 7794

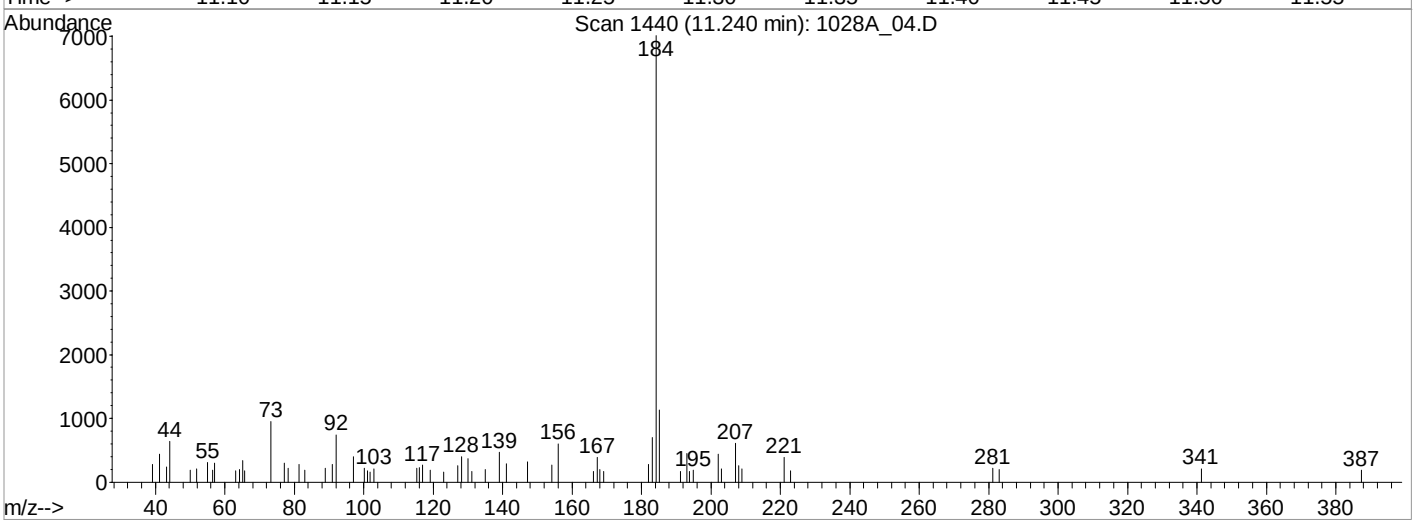
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 33
Acq On : 29 Oct 2014 4:00 am Operator: 280
Sample : LCS 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:36 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: 1028A_04.D

(79) Benzidine (MT)

11.24min (-0.005) 29.0687266 ppb

Qvalue = 93

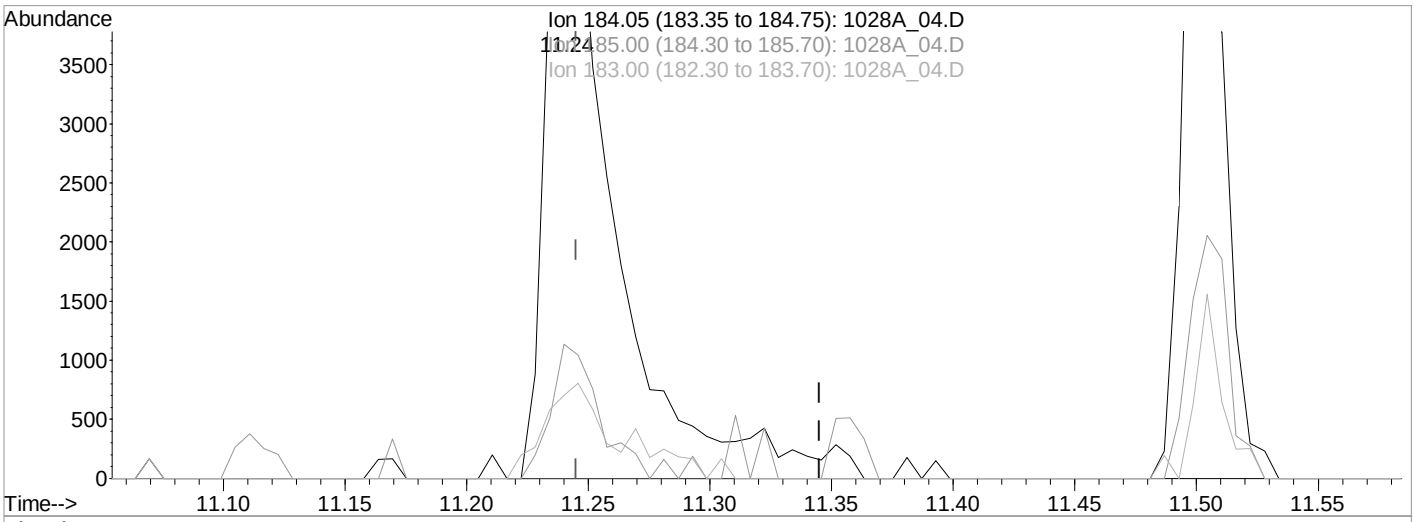
response 10633

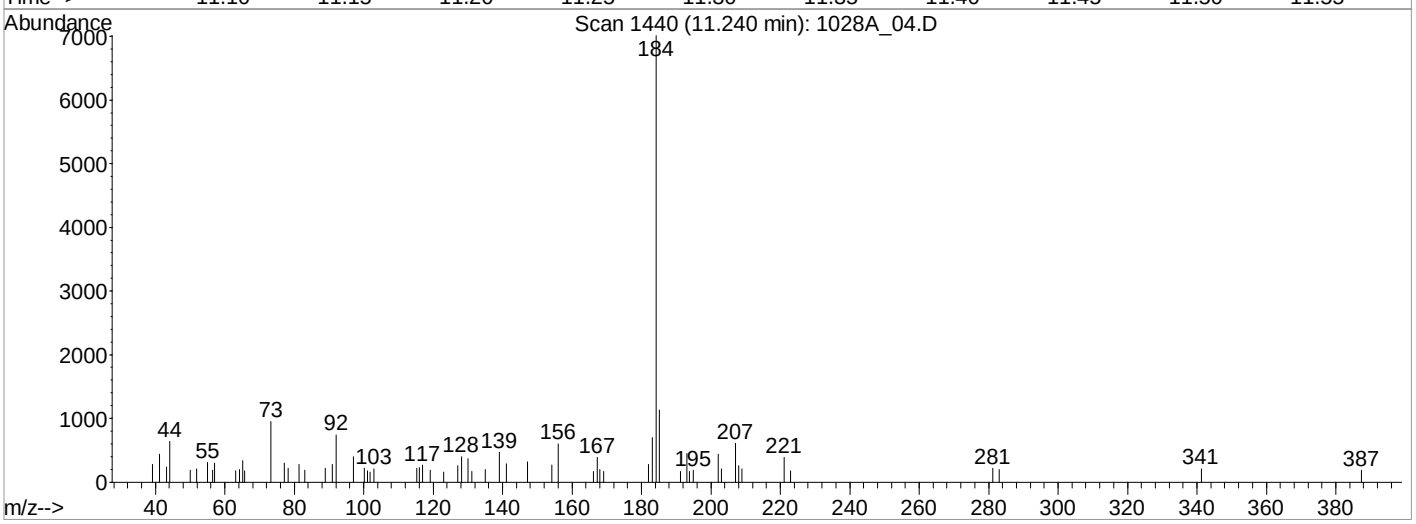
Ion	Exp%	Act%
184.05	100	100
185.00	13.70	14.64
183.00	11.90	16.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 04.D Vial: 33
Acq On : 29 Oct 2014 4:00 am Operator: 280
Sample : LCS 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:37 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: 1028A_04.D

(79) Benzidine (MT)

11.24min (-0.005) 29.3871044 ppb m

response 11377

Ion	Exp%	Act%
184.05	100	100
185.00	13.70	13.69
183.00	11.90	15.47
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 34
Acq On : 29 Oct 2014 4:22 am Operator: 280
Sample : LCSD 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:39 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	139446	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	569877	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	371108	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	639785	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	771212	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	867223	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	296748	402.0168960 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 60.36%		
7) Phenol-d5	4.71	99	339177	376.9001601 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 56.59%		
23) Nitrobenzene-d5	5.59	82	160665	193.9973193 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 58.26%		
44) 2-Fluorobiphenyl	7.45	172	409396	217.3571915 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 65.27%		
67) 2,4,6-Tribromophenol	9.04	330	103071	472.8880617 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 71.00%		
81) p-Terphenyl-d14	11.50	244	575551	204.8069335 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 61.50%		

Target Compounds						Qvalue
2) Pyridine	2.98	79	69548	59.1019698 ppb		95
3) N-Nitrosodimethylamine	2.95	42	96612	161.6465839 ppb	#	79
5) Aniline	4.77	66	67354	151.0621485 ppb		98
6) bis(2-Chloroethyl)ether	4.82	63	100834	163.0485371 ppb		92
8) Phenol	4.72	94	183268	197.4937041 ppb		90
9) Benzaldehyde	4.68	105	31554	75.7595449 ppb		95
10) 2-Chlorophenol	4.88	128	170656	211.2106193 ppb		95
11) n-Decane	4.90	41	92508	192.5795363 ppb		100
12) 1,3-Dichlorobenzene	5.02	146	183661	205.4992078 ppb		99
13) 1,4-Dichlorobenzene	5.08	146	183919	201.5115296 ppb		96
14) Benzyl Alcohol	5.18	79	120765	178.1957990 ppb		97
15) 1,2-Dichlorobenzene	5.22	146	178234	204.0328838 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.31	121	51500	196.8353114 ppb		91
17) 2-Methylphenol	5.28	108	143438	196.3470437 ppb		94
18) Hexachloroethane	5.55	117	79084	201.6466713 ppb		97
19) N-Nitrosodi-n-propylamine	5.43	70	110849	180.5558807 ppb		92
20) 3&4-Methyl phenol	5.42	107	187112	223.1321283 ppb		92
21) Acetophenone	5.44	105	229729	220.9573774 ppb	#	82
24) Nitrobenzene	5.61	77	170668	208.9038412 ppb		94
25) Isophorone	5.84	82	324977	226.9655482 ppb		99
26) 2-Nitrophenol	5.92	139	98827	243.6219445 ppb		93
27) 2,4-Dimethylphenol	5.95	107	181478	236.8147765 ppb		95
28) bis(2-Chlorethoxy)methane	6.05	93	178444	189.8336051 ppb		98
29) 2,4-Dichlorophenol	6.16	162	151249	235.1333426 ppb		96
30) Benzoic Acid	5.99	105	7517m	90.4645450 ppb		
31) 1,2,4-Trichlorobenzene	6.26	180	153283	213.4534467 ppb		98
32) Naphthalene	6.34	128	506191	201.9537139 ppb		98
33) 4-Chloroaniline	6.39	65	56175	179.7761343 ppb		90
34) Hexachloro-1,3-butadiene	6.46	225	92253	230.1608919 ppb		95
35) Caprolactam	6.73	113	48337	217.2406323 ppb	#	78
36) 4-Chloro-3-methylphenol	6.89	107	170115	232.3484965 ppb		98
37) 2-Methylnaphthalene	7.06	142	355096	204.5296278 ppb	#	95
38) 1-Methylnaphthalene	7.17	142	364831	226.1183896 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 34
Acq On : 29 Oct 2014 4:22 am Operator: 280
Sample : LCSD 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:39 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

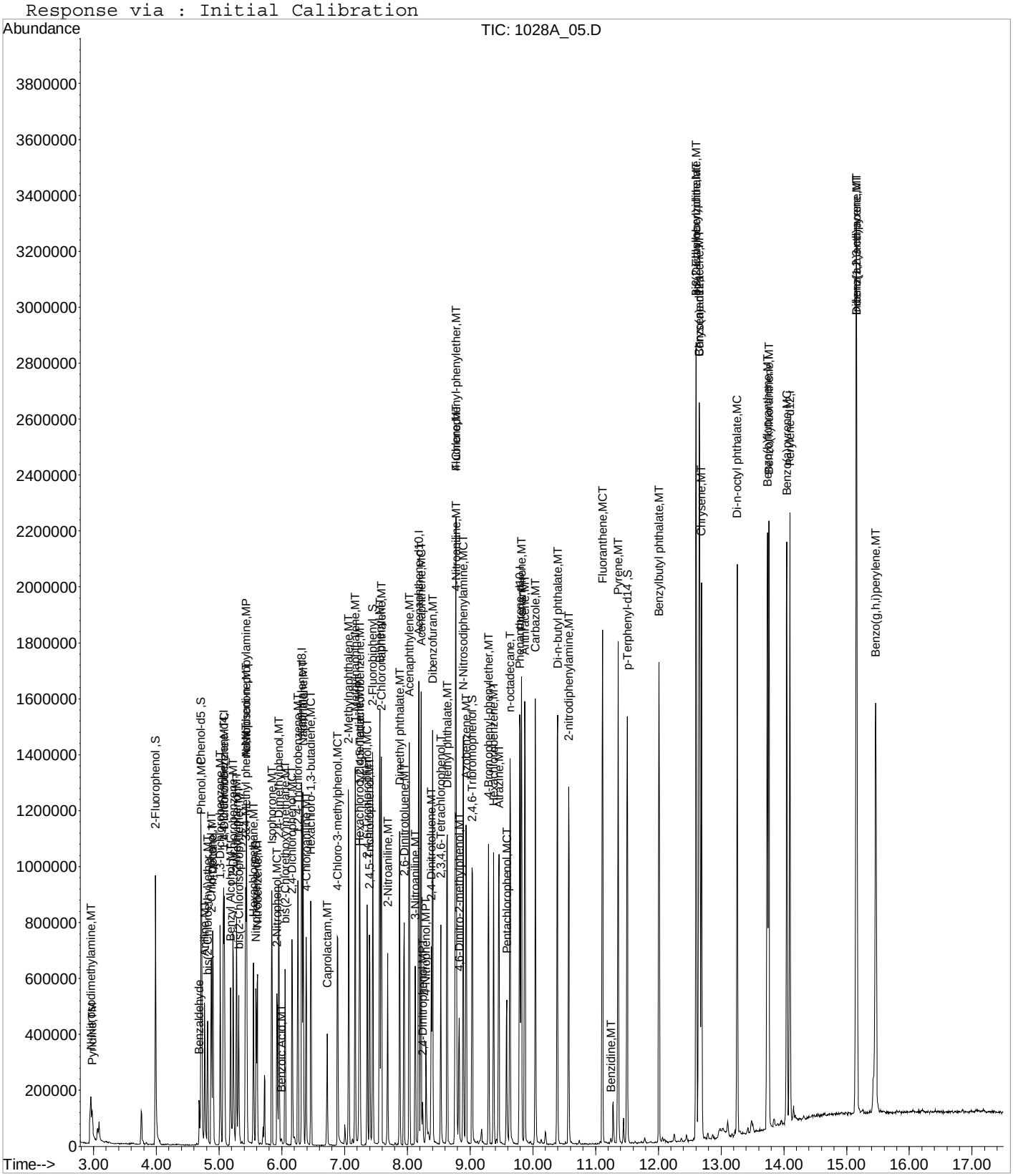
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	161381	239.6279697	ppb		99
41)	Hexachlorocyclopentadiene	7.23	237	65230	166.3796385	ppb		98
42)	2,4,6-Trichlorophenol	7.36	196	109500	242.9130094	ppb		97
43)	2,4,5-Trichlorophenol	7.40	196	120101	238.4359754	ppb		93
45)	Biphenyl	7.56	154	481504	231.9409277	ppb		99
46)	2-Chloronaphthalene	7.59	162	383348	231.1372647	ppb		98
47)	2-Nitroaniline	7.69	138	130559	237.3028807	ppb	#	92
48)	Acenaphthylene	8.03	152	627370	229.6793833	ppb		99
49)	Dimethyl phthalate	7.88	163	445687	237.8770737	ppb		95
50)	2,6-Dinitrotoluene	7.95	165	105366	250.1089361	ppb		95
51)	3-Nitroaniline	8.13	138	98936	201.3137638	ppb		93
52)	Acenaphthene	8.22	153	385426	222.5462239	ppb		98
53)	2,4-Dinitrophenol	8.24	184	22547	181.5210133	ppb	#	89
54)	Dibenzofuran	8.40	168	562421	233.5823146	ppb		94
55)	2,4-Dinitrotoluene	8.38	165	138307	245.2798090	ppb		99
56)	2,3,4,6-Tetrachlorophenol	8.53	232	88934	292.1150141	ppb		78
57)	4-Nitrophenol	8.30	139	74818	214.4081691	ppb		89
58)	Fluorene	8.77	166	451778	227.1030008	ppb		99
59)	4-Chlorophenyl-phenylether	8.77	204	196423	226.7040460	ppb		92
60)	Diethyl phthalate	8.64	149	483159	237.5897598	ppb		99
61)	4-Nitroaniline	8.78	138	108915	216.6583643	ppb	#	82
62)	Azobenzene	8.94	77	394829	189.7742952	ppb		95
63)	Atrazine	9.46	200	128613	296.9121916	ppb	#	80
65)	4,6-Dinitro-2-methylphenol	8.83	198	59971	238.6965484	ppb		95
66)	N-Nitrosodiphenylamine	8.89	169	362114	222.5115608	ppb		99
68)	4-Bromophenyl-phenylether	9.30	248	113765	228.2812667	ppb		92
69)	Hexachlorobenzene	9.38	284	130727	232.6122436	ppb		98
70)	n-octadecane	9.64	55	71030	207.9564805	ppb		95
71)	Pentachlorophenol	9.58	266	56729	231.1013063	ppb		97
72)	Phenanthrene	9.82	178	641434	225.5430121	ppb		96
73)	Anthracene	9.87	178	659582	226.5591556	ppb		99
74)	Carbazole	10.04	167	642763	226.8893126	ppb		99
75)	Di-n-butyl phthalate	10.39	149	913699	237.0178243	ppb		99
76)	2-nitrodiphenylamine	10.57	167	190455	290.2243648	ppb	#	100
77)	Fluoranthene	11.11	202	746399	222.5602353	ppb		99
79)	Benzidine	11.24	184	12124m	29.9561612	ppb		
80)	Pyrene	11.36	202	795742	217.6763823	ppb		99
82)	Benzylbutyl phthalate	12.01	149	442572	224.3998791	ppb		96
83)	3,3-Dichlorobenzidine	12.60	252	216232	165.3587211	ppb		96
84)	Benzo(a)anthracene	12.65	228	788856	207.9917916	ppb		95
85)	Chrysene	12.69	228	731895	212.7824967	ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.60	149	671366	219.6358396	ppb		98
87)	Di-n-octyl phthalate	13.26	149	1137816	214.4983097	ppb		99
89)	Benzo(b)fluoranthene	13.74	252	884164	213.0895881	ppb		94
90)	Benzo(k)fluoranthene	13.76	252	784816	208.3598934	ppb		97
91)	Benzo(a)pyrene	14.05	252	838933	215.9785280	ppb		93
92)	Indeno(1,2,3-cd)pyrene	15.16	276	1018548	238.1266528	ppb		88
93)	Dibenz(a,h)anthracene	15.16	278	857825	240.2449821	ppb		91
94)	Benzo(g,h,i)perylene	15.46	276	843297	237.5794854	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 34
Acq On : 29 Oct 2014 4:22 am Operator: 280
Sample : LCSD 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:39 2014 Quant Results File: S804J16N.RES

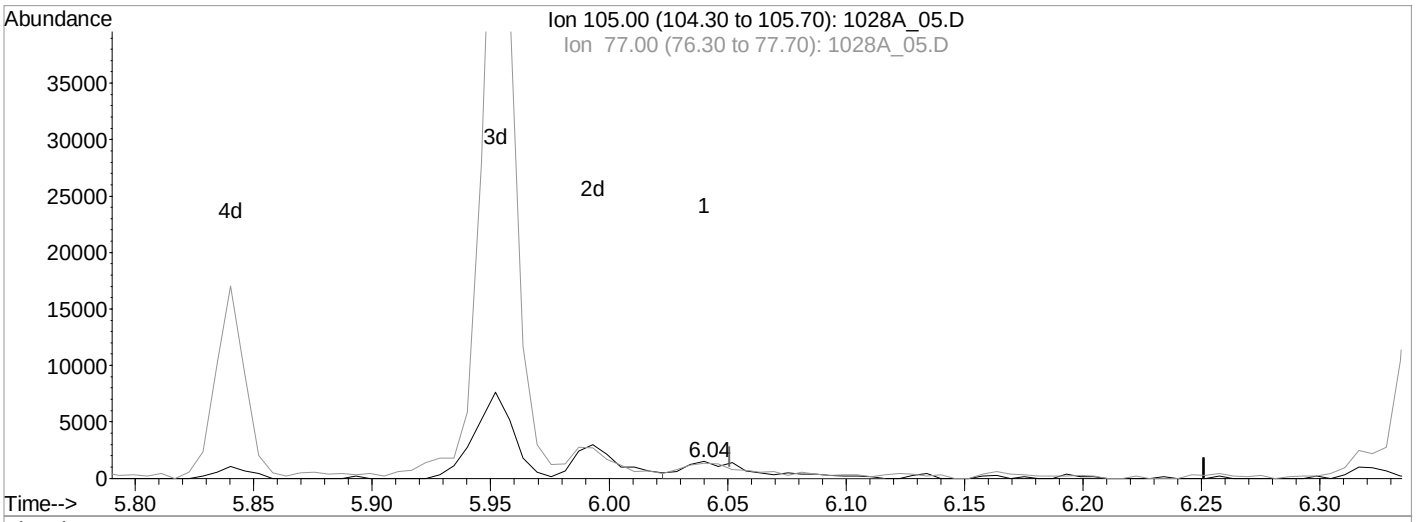
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

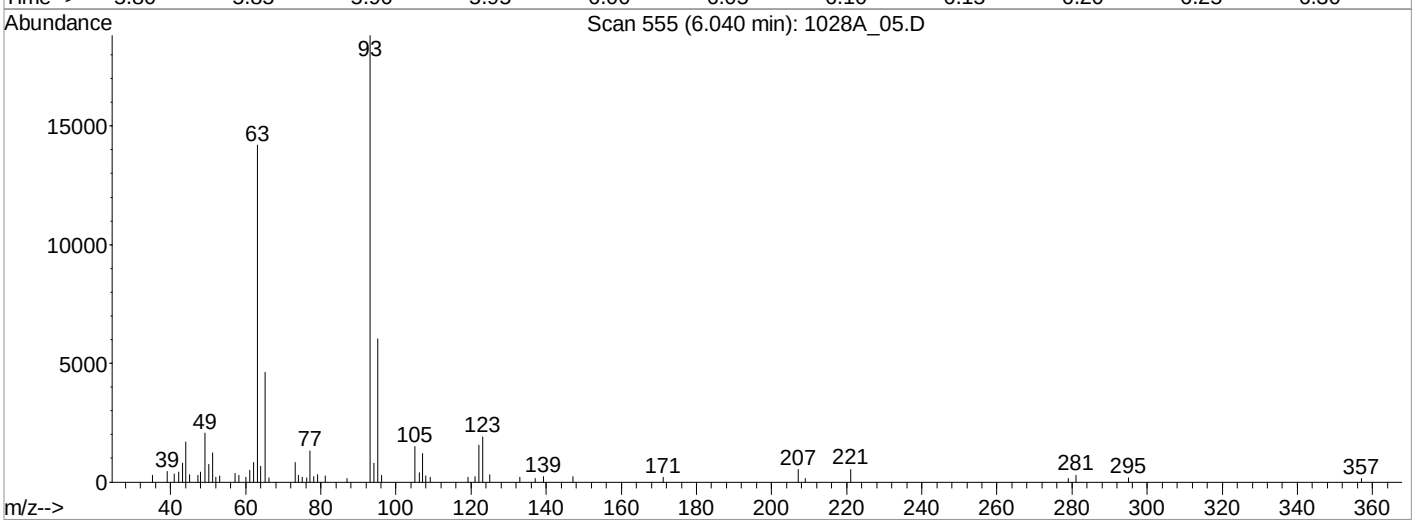


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 34
Acq On : 29 Oct 2014 4:22 am Operator: 280
Sample : LCSD 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:28 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: 1028A_05.D

(30) Benzoic Acid (MT)

6.04min (-0.011) 78.2737764 ppb

Qvalue = 87

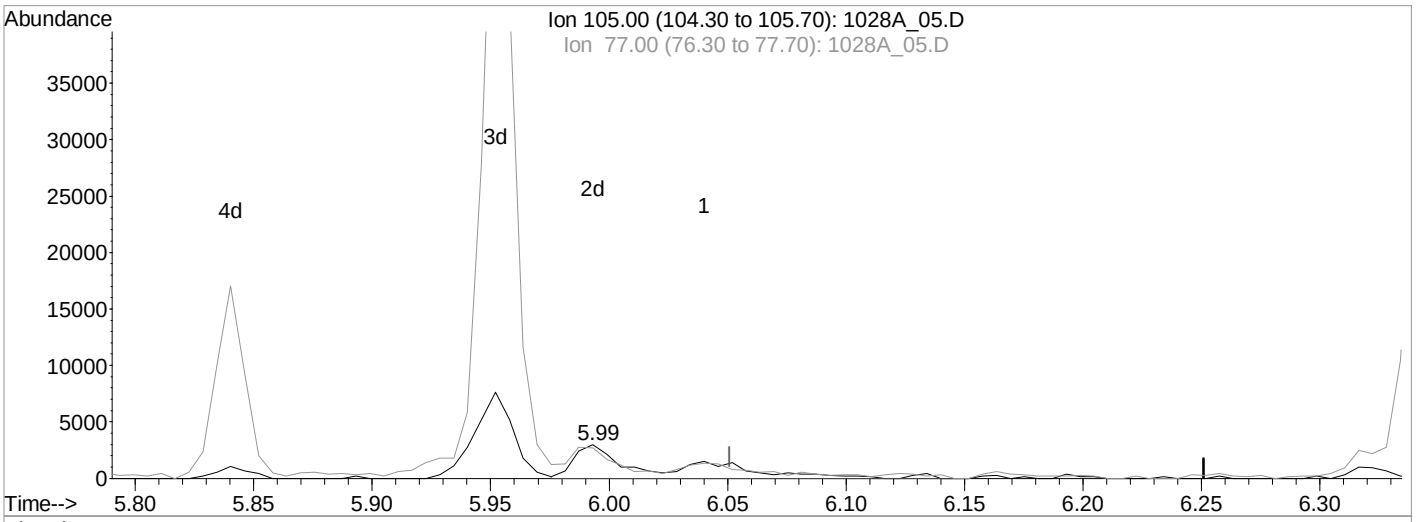
response 3274

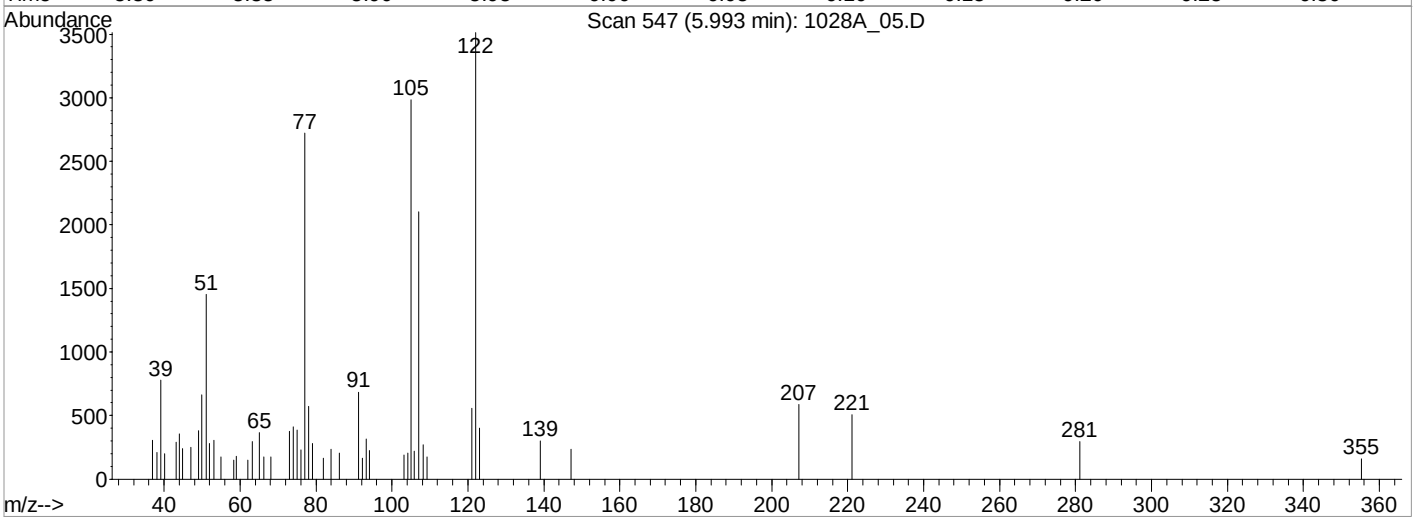
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	76.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 34
Acq On : 29 Oct 2014 4:22 am Operator: 280
Sample : LCSD 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 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 : Single Level Calibration





TIC: 1028A_05.D

(30) Benzoic Acid (MT)

5.99min (-0.058) 90.4645450 ppb m

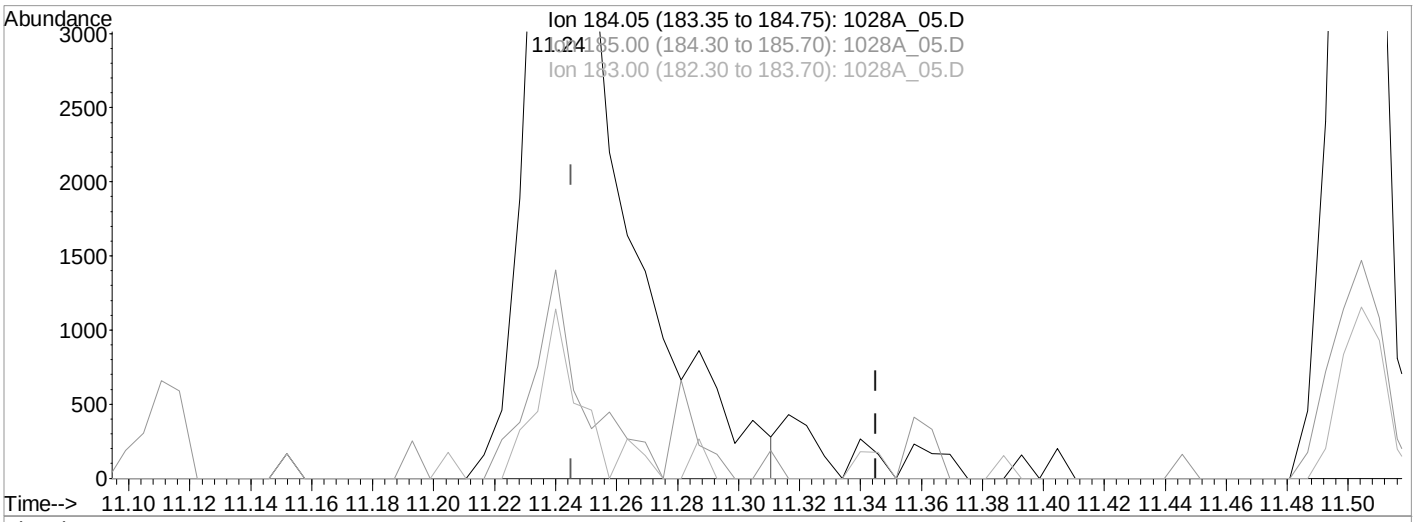
response 7517

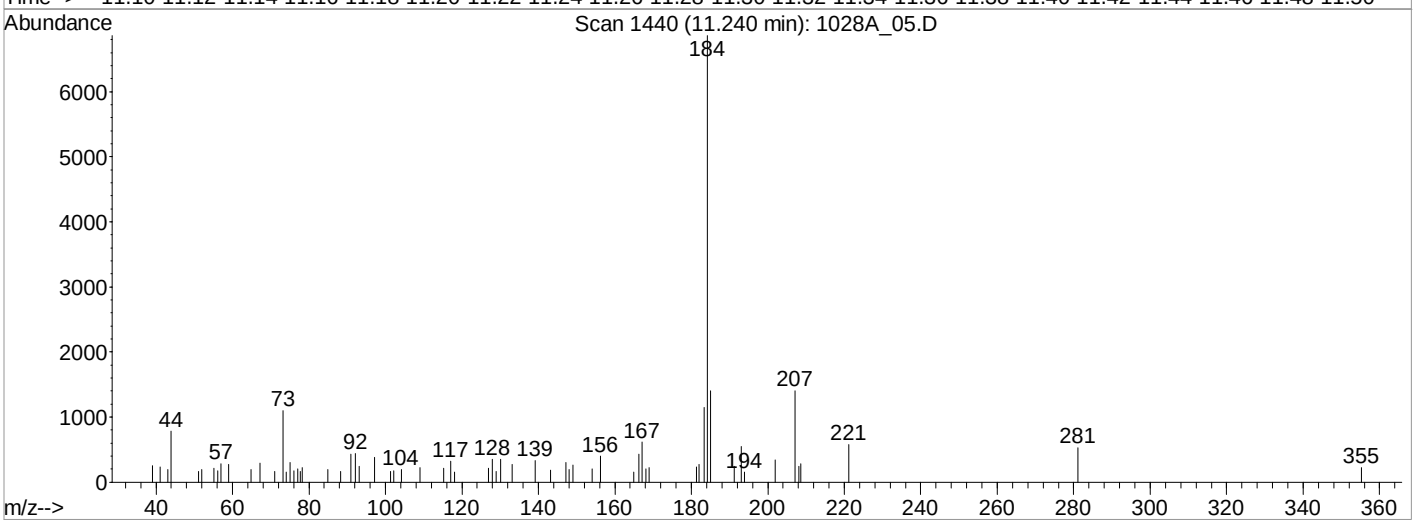
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	33.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 34
Acq On : 29 Oct 2014 4:22 am Operator: 280
Sample : LCSD 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 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 : Single Level Calibration





TIC: 1028A_05.D

(79) Benzidine (MT)

11.24min (-0.005) 29.8086055 ppb

Qvalue = 97

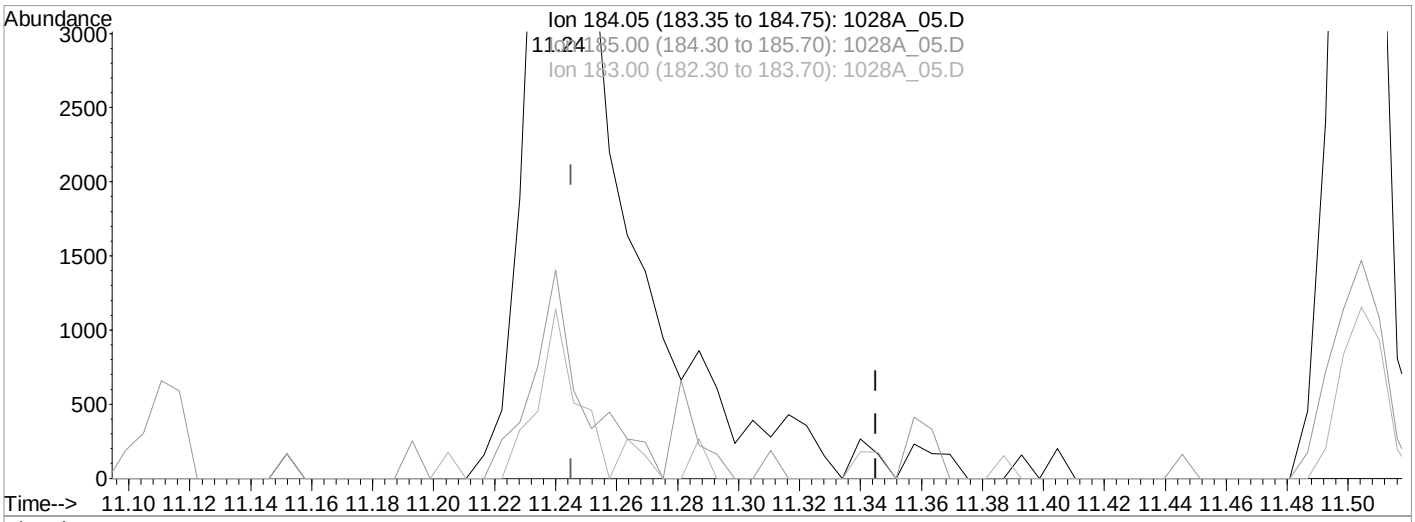
response 11795

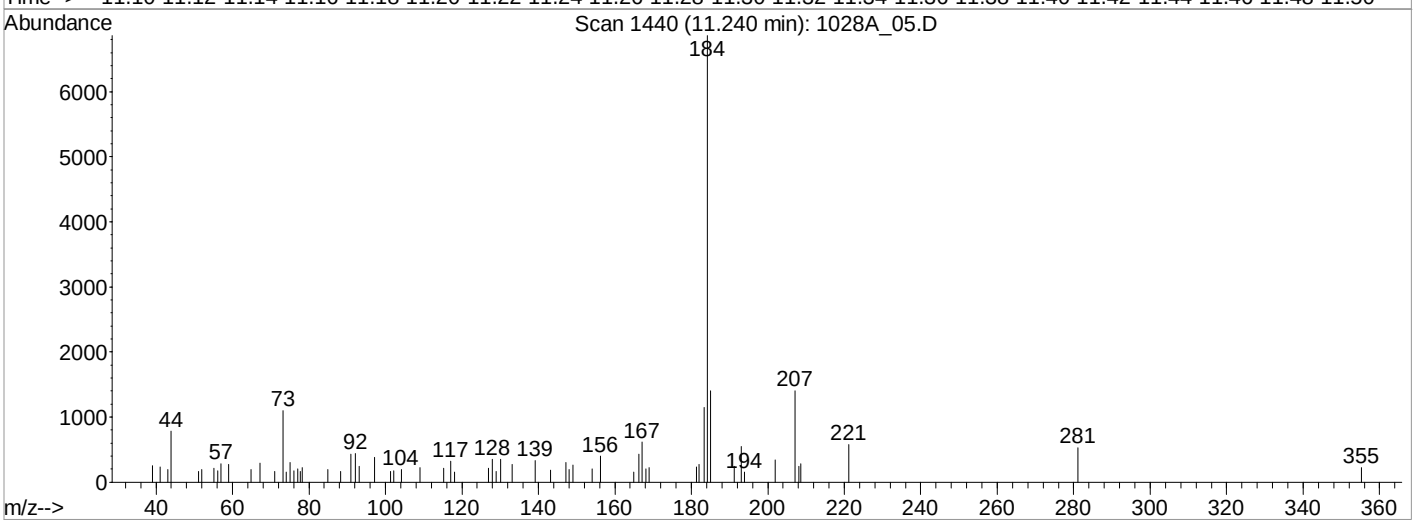
Ion	Exp%	Act%
184.05	100	100
185.00	13.70	14.01
183.00	11.90	9.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 05.D Vial: 34
Acq On : 29 Oct 2014 4:22 am Operator: 280
Sample : LCSD 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:39 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: 1028A_05.D

(79) Benzidine (MT)

11.24min (-0.005) 29.9561612 ppb m

response 12124

Ion	Exp%	Act%
184.05	100	100
185.00	13.70	13.63
183.00	11.90	9.63
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 06.D Vial: 35
Acq On : 29 Oct 2014 4:43 am Operator: 280
Sample : BLANK 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:41 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	139529	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	577459	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	370808	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	654937	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	792023	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	881696	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	304999	412.9490775 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 62.00%		
7) Phenol-d5	4.71	99	351265	390.1003911 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 58.57%		
23) Nitrobenzene-d5	5.59	82	160303	191.0187837 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 57.36%		
44) 2-Fluorobiphenyl	7.45	172	400358	212.7306912 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 63.88%		
67) 2,4,6-Tribromophenol	9.04	330	97214	435.6976337 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 65.42%		
81) p-Terphenyl-d14	11.50	244	573401	198.6805133 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 59.66%		

Target Compounds					Qvalue
2) Pyridine	2.89	79	72	N.D.	
3) N-Nitrosodimethylamine	2.94	42	105	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.71	63	1233	N.D.	
8) Phenol	4.71	94	193	N.D.	
9) Benzaldehyde	4.68	105	88	N.D.	
10) 2-Chlorophenol	4.88	128	323	N.D.	
11) n-Decane	4.90	41	5506	11.4553571 ppb #	91
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.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	5.21	121	65	N.D.	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	5.41	70	73	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D.	
21) Acetophenone	5.34	105	112	N.D.	
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	5.89	82	62	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	0.00	105	0	N.D.	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	6.34	128	3176	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	6.83	113	58	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 06.D Vial: 35
Acq On : 29 Oct 2014 4:43 am Operator: 280
Sample : BLANK 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:41 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

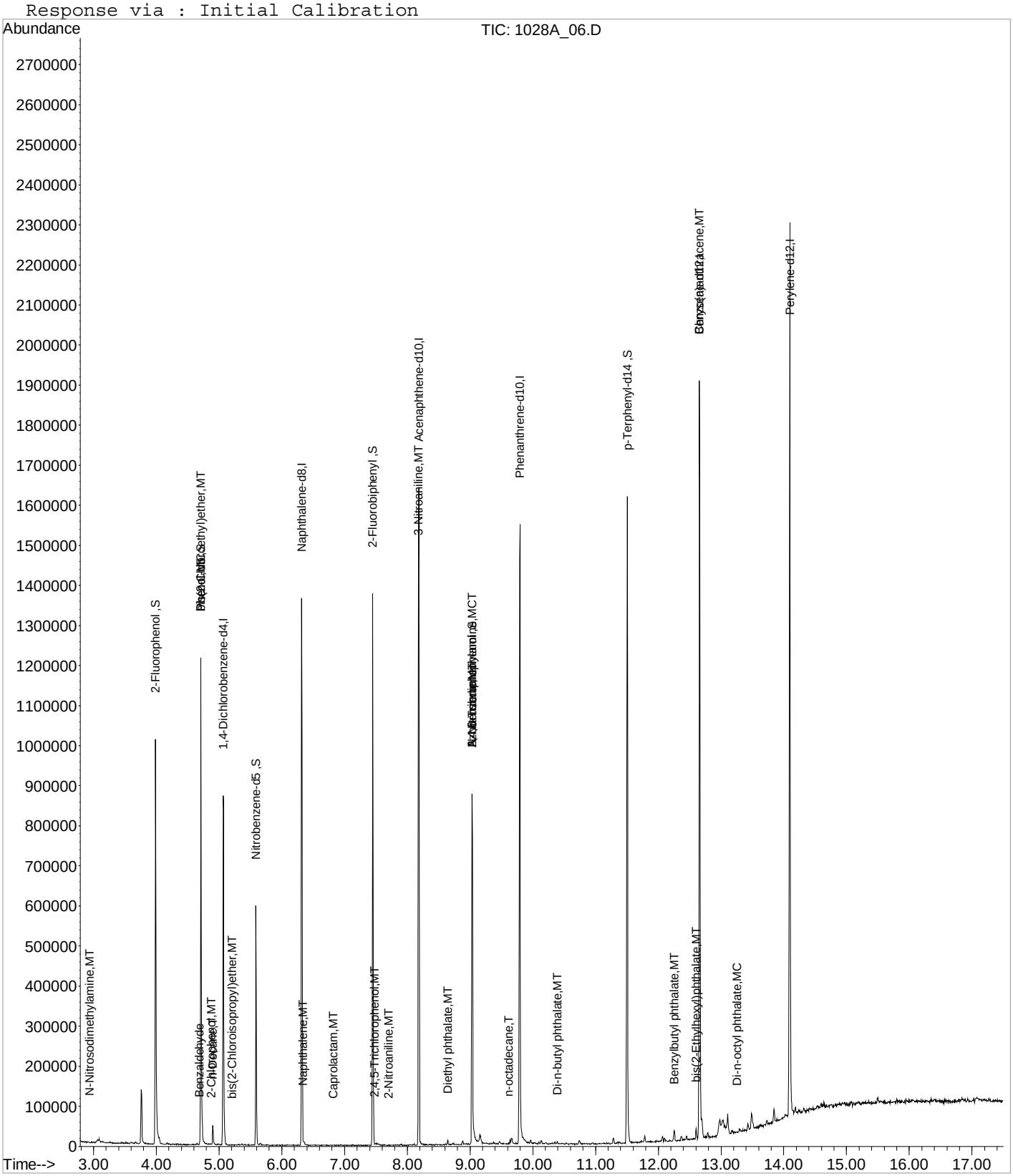
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	7.48	196	73	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	d
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	7.70	138	83	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.89	163	180	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	8.17	138	69	N.D.	
52)	Acenaphthene	8.18	153	74	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	8.38	165	53	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	8.77	204	63	N.D.	
60)	Diethyl phthalate	8.64	149	765	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	9.03	77	798	N.D.	
63)	Atrazine	9.38	200	55	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	9.03	169	3830	N.D.	
68)	4-Bromophenyl-phenylether	9.22	248	55	N.D.	
69)	Hexachlorobenzene	9.42	284	57	N.D.	
70)	n-octadecane	9.61	55	810	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D.	d
72)	Phenanthrene	9.82	178	88	N.D.	
73)	Anthracene	0.00	178	0	N.D.	d
74)	Carbazole	10.01	167	56	N.D.	
75)	Di-n-butyl phthalate	10.39	149	3702	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.36	202	231	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	11.36	202	231	N.D.	
82)	Benzylbutyl phthalate	12.25	149	1236	N.D.	
83)	3,3-Dichlorobenzidine	12.68	252	92	N.D.	
84)	Benzo(a)anthracene	12.66	228	2456	N.D.	
85)	Chrysene	12.69	228	200	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	9828	N.D.	
87)	Di-n-octyl phthalate	13.26	149	2142	N.D.	
89)	Benzo(b)fluoranthene	13.75	252	472	N.D.	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D.	d
91)	Benzo(a)pyrene	14.04	252	297	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.14	276	82	N.D.	
93)	Dibenz(a,h)anthracene	15.18	278	61	N.D.	
94)	Benzo(g,h,i)perylene	15.47	276	70	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 06.D Vial: 35
Acq On : 29 Oct 2014 4:43 am Operator: 280
Sample : BLANK 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:41 2014 Quant Results File: S804J16N.RES

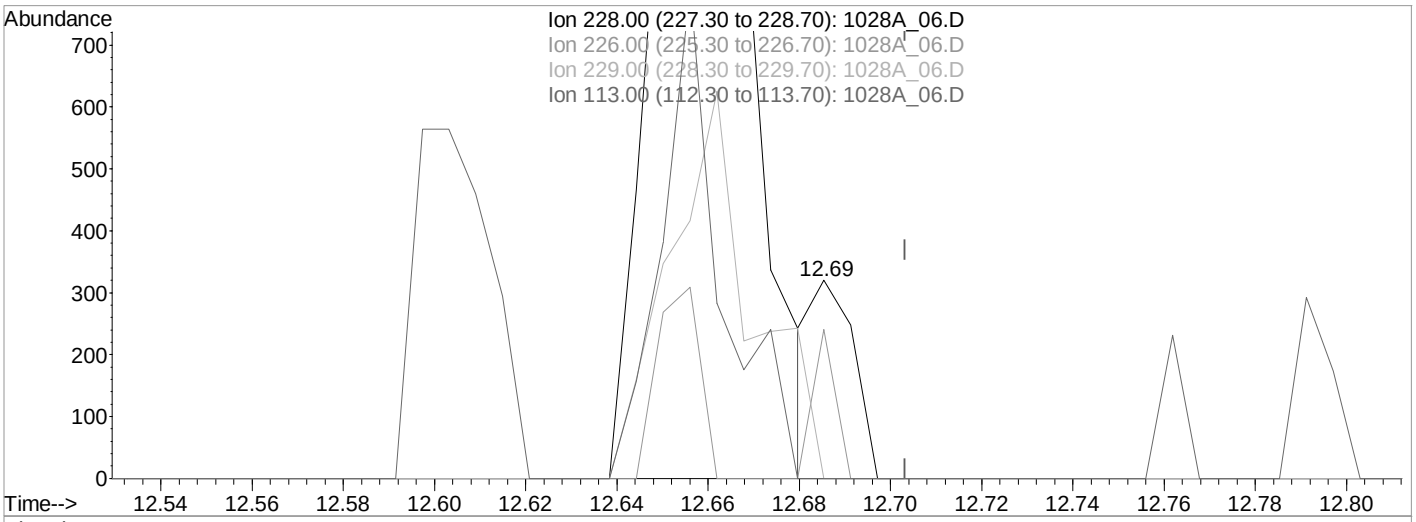
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

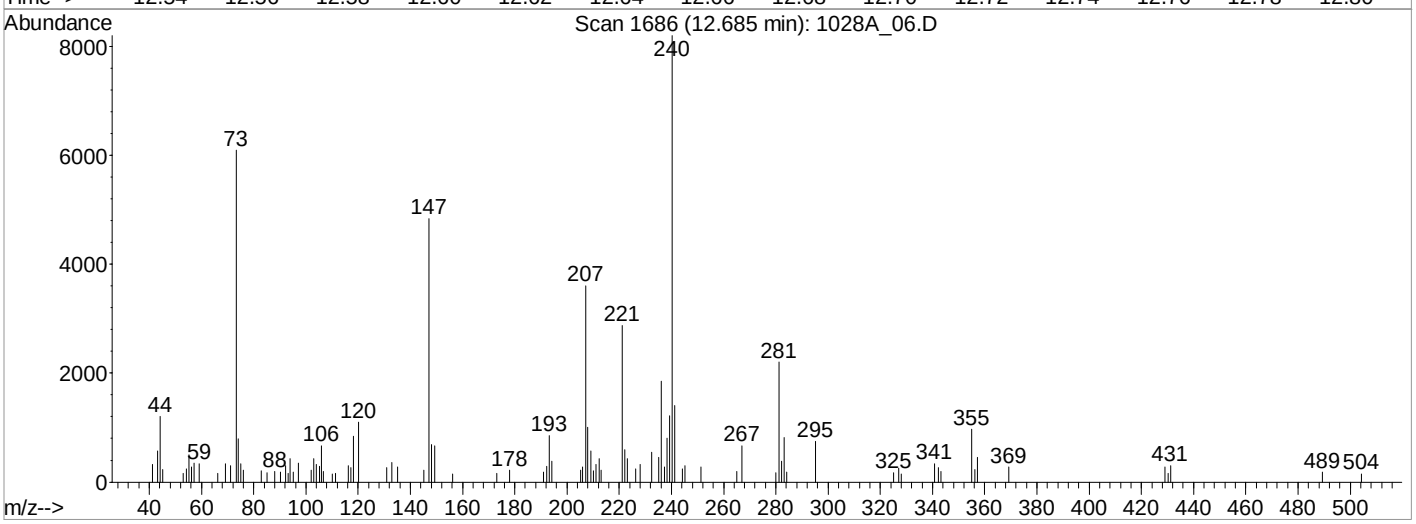


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 06.D Vial: 35
Acq On : 29 Oct 2014 4:43 am Operator: 280
Sample : BLANK 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:41 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: 1028A_06.D

(85) Chrysene (MT)

12.69min (-0.018) 0.0566178 ppb m

response 200

Ion	Exp%	Act%
228.00	100	100
226.00	27.60	75.31#
229.00	19.30	0.00
113.00	15.70	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 07.D Vial: 36
Acq On : 29 Oct 2014 5:05 am Operator: 280
Sample : L729564-01 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:20 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	137200	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	557074	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	361547	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	637075	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	746166	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	855764	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	257934	355.1542764 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 53.33%		
7) Phenol-d5	4.71	99	292985	330.9003781 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 49.68%		
23) Nitrobenzene-d5	5.59	82	135661	167.5705536 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 50.32%		
44) 2-Fluorobiphenyl	7.45	172	351403	191.5011728 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 57.51%		
67) 2,4,6-Tribromophenol	9.04	330	88812	409.2012970 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 61.44%		
81) p-Terphenyl-d14	11.50	244	483181	177.7088323 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 53.37%		

Target Compounds					Qvalue
2) Pyridine	3.08	79	54	N.D.	
3) N-Nitrosodimethylamine	2.94	42	228	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.71	63	792	N.D.	
8) Phenol	4.72	94	540	N.D.	
9) Benzaldehyde	4.67	105	147	N.D.	
10) 2-Chlorophenol	4.88	128	155	N.D.	
11) n-Decane	4.90	41	5670	11.9968120 ppb #	89
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	5.22	79	62	N.D.	
15) 1,2-Dichlorobenzene	5.28	146	56	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	5.17	108	55	N.D.	
18) Hexachloroethane	5.41	117	53	N.D.	
19) N-Nitrosodi-n-propylamine	5.43	70	53	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D.	
21) Acetophenone	5.44	105	262	N.D.	
24) Nitrobenzene	5.59	77	516	N.D.	
25) Isophorone	5.84	82	62	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	6.05	93	64	N.D.	
29) 2,4-Dichlorophenol	6.25	162	75	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	2726	N.D.	
33) 4-Chloroaniline	6.36	65	53	N.D.	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.90	113	93	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 07.D Vial: 36
Acq On : 29 Oct 2014 5:05 am Operator: 280
Sample : L729564-01 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:20 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

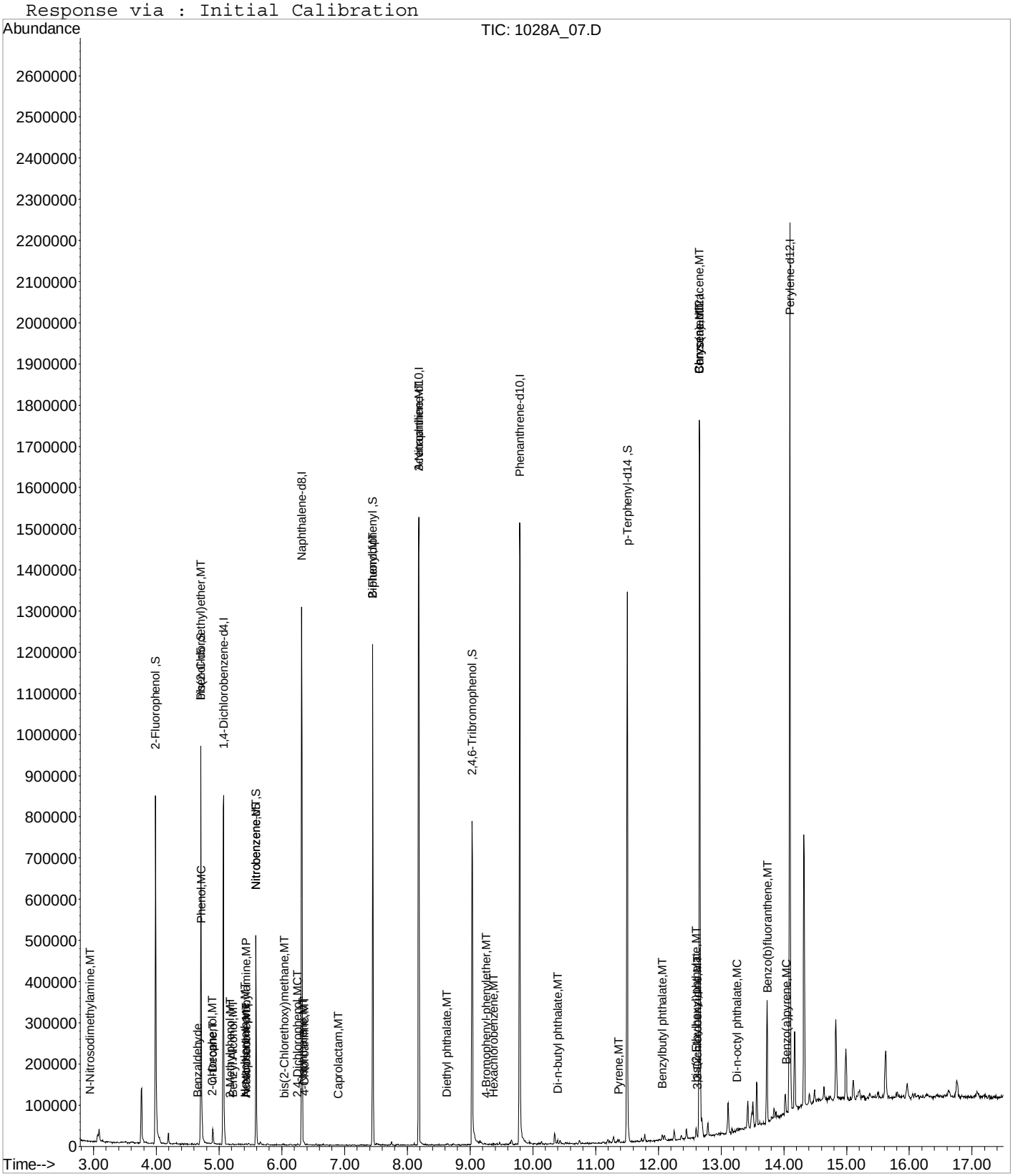
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.44	154	680	N.D.	
46)	2-Chloronaphthalene	7.64	162	54	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	7.93	152	94	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	8.18	138	367	N.D.	
52)	Acenaphthene	8.18	153	72	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	429	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	8.98	77	59	N.D.	
63)	Atrazine	0.00	200	0	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	9.26	248	54	N.D.	
69)	Hexachlorobenzene	9.38	284	68	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	9.88	178	65	N.D.	
73)	Anthracene	10.08	178	57	N.D.	
74)	Carbazole	9.83	167	58	N.D.	
75)	Di-n-butyl phthalate	10.39	149	3539	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.12	202	191	N.D.	
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.36	202	401	N.D.	
82)	Benzylbutyl phthalate	12.06	149	178	N.D.	
83)	3,3-Dichlorobenzidine	12.63	252	86	N.D.	
84)	Benzo(a)anthracene	12.66	228	2178	N.D.	
85)	Chrysene	12.66	228	2178	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	8645	2.9231236 ppb	93
87)	Di-n-octyl phthalate	13.25	149	2359	N.D.	
89)	Benzo(b)fluoranthene	13.74	252	548	N.D.	
90)	Benzo(k)fluoranthene	13.78	252	122	N.D.	
91)	Benzo(a)pyrene	14.04	252	260	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.14	276	73	N.D.	
93)	Dibenz(a,h)anthracene	15.14	278	56	N.D.	
94)	Benzo(g,h,i)perylene	15.47	276	73	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 07.D Vial: 36
Acq On : 29 Oct 2014 5:05 am Operator: 280
Sample : L729564-01 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:20 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\102814A\1028A 08.D Vial: 37
Acq On : 29 Oct 2014 5:27 am Operator: 280
Sample : L729564-02 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:20 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	5.06	152	152236	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	613295	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	402028	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	711307	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	880277	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	950696	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	294889	365.9348527 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 54.95%		
7) Phenol-d5	4.71	99	345263	351.4298636 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 52.77%		
23) Nitrobenzene-d5	5.59	82	154567	173.4214981 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 52.08%		
44) 2-Fluorobiphenyl	7.45	172	408330	200.1178013 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 60.10%		
67) 2,4,6-Tribromophenol	9.04	330	103551	427.3199106 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 64.16%		
81) p-Terphenyl-d14	11.50	244	577301	179.9772352 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 54.05%		

Target Compounds					Qvalue
2) Pyridine	2.84	79	115	N.D.	
3) N-Nitrosodimethylamine	2.93	42	330	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.74	63	209	N.D.	
8) Phenol	4.72	94	474	N.D.	
9) Benzaldehyde	4.69	105	55	N.D.	
10) 2-Chlorophenol	4.88	128	205	N.D.	
11) n-Decane	4.90	41	5745	10.9549292 ppb #	99
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	5.16	79	75	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	5.28	108	60	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	5.41	70	60	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D.	
21) Acetophenone	5.44	105	143	N.D.	
24) Nitrobenzene	5.59	77	614	N.D.	
25) Isophorone	5.84	82	75	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	5.84	107	65	N.D.	
28) bis(2-Chlorethoxy)methane	6.32	93	468	N.D.	
29) 2,4-Dichlorophenol	6.18	162	54	N.D.	
30) Benzoic Acid	0.00	105	0	N.D.	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	6.34	128	3115	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	6.71	113	190	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 08.D Vial: 37
Acq On : 29 Oct 2014 5:27 am Operator: 280
Sample : L729564-02 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:20 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

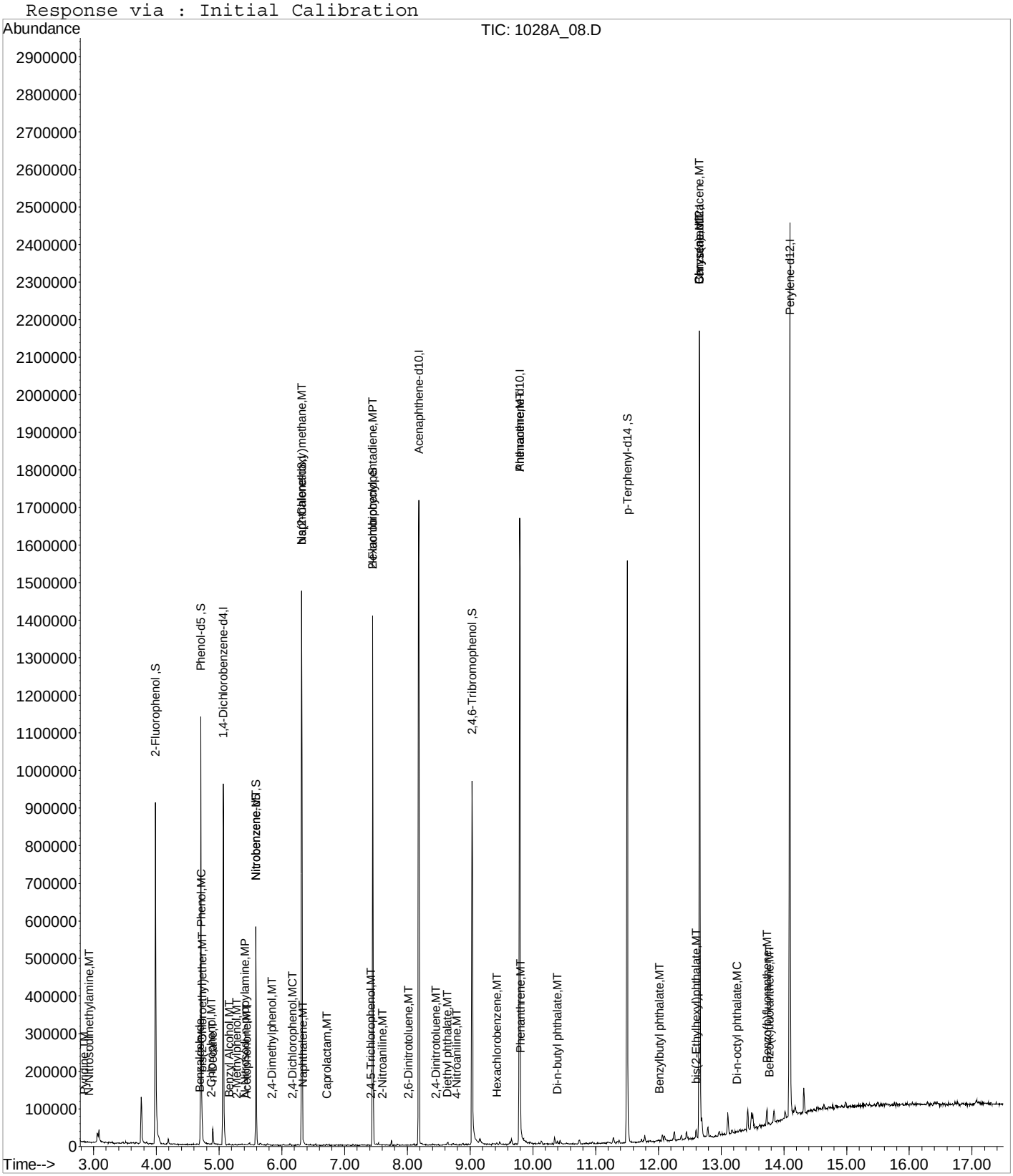
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.44	237	89	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	7.41	196	67	N.D.	
45)	Biphenyl	7.56	154	132	N.D.	
46)	2-Chloronaphthalene	7.53	162	77	N.D.	
47)	2-Nitroaniline	7.60	138	61	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.88	163	64	N.D.	
50)	2,6-Dinitrotoluene	8.02	165	69	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	8.26	153	59	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	8.45	165	55	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	726	N.D.	
61)	4-Nitroaniline	8.79	138	64	N.D.	
62)	Azobenzene	8.97	77	57	N.D.	
63)	Atrazine	0.00	200	0	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	9.43	284	94	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	253	N.D.	
73)	Anthracene	9.79	178	491	N.D.	
74)	Carbazole	9.99	167	61	N.D.	
75)	Di-n-butyl phthalate	10.39	149	4140	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.35	202	129	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	11.35	202	129	N.D.	
82)	Benzylbutyl phthalate	12.01	149	637	N.D.	
83)	3,3-Dichlorobenzidine	12.57	252	71	N.D.	
84)	Benzo(a)anthracene	12.66	228	2220	N.D.	
85)	Chrysene	12.66	228	2220	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	11255	3.2258472 ppb	93
87)	Di-n-octyl phthalate	13.26	149	2098	N.D.	
89)	Benzo(b)fluoranthene	13.73	252	589	N.D.	
90)	Benzo(k)fluoranthene	13.77	252	409	N.D.	
91)	Benzo(a)pyrene	14.04	252	266	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.16	276	86	N.D.	
93)	Dibenz(a,h)anthracene	14.98	278	75	N.D.	
94)	Benzo(g,h,i)perylene	15.46	276	123	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 08.D Vial: 37
Acq On : 29 Oct 2014 5:27 am Operator: 280
Sample : L729564-02 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:20 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\102814A\1028A 09.D Vial: 38
Acq On : 29 Oct 2014 5:49 am Operator: 280
Sample : L729564-04 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:21 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	5.06	152	137089	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	563232	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	369039	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	642322	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	768114	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	866941	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	264550	364.5589158 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 54.74%		
7) Phenol-d5	4.71	99	303731	343.3147795 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 51.55%		
23) Nitrobenzene-d5	5.59	82	133249	162.7916845 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 48.89%		
44) 2-Fluorobiphenyl	7.45	172	354822	189.4388332 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 56.89%		
67) 2,4,6-Tribromophenol	9.04	330	91650	418.8278827 ppb	-0.01
Spiked Amount 666.000	Range 22 - 142		Recovery = 62.89%		
81) p-Terphenyl-d14	11.50	244	499160	178.3399810 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 53.56%		

Target Compounds					Qvalue
2) Pyridine	2.90	79	53	N.D.	
3) N-Nitrosodimethylamine	2.94	42	128	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.88	63	150	N.D.	
8) Phenol	4.72	94	212	N.D.	
9) Benzaldehyde	4.67	105	57	N.D.	
10) 2-Chlorophenol	4.88	128	98	N.D.	
11) n-Decane	4.90	41	5108	10.8164609 ppb #	89
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	129	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	5.45	121	56	N.D.	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	5.43	70	53	N.D.	
20) 3&4-Methyl phenol	5.16	107	56	N.D.	
21) Acetophenone	5.76	105	61	N.D.	
24) Nitrobenzene	5.59	77	656	N.D.	
25) Isophorone	5.77	82	76	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	6.32	93	377	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	3034	N.D.	
33) 4-Chloroaniline	6.35	65	62	N.D.	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.72	113	69	N.D.	
36) 4-Chloro-3-methylphenol	6.97	107	57	N.D.	
37) 2-Methylnaphthalene	7.17	142	90	N.D.	
38) 1-Methylnaphthalene	7.17	142	90	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 09.D Vial: 38
Acq On : 29 Oct 2014 5:49 am Operator: 280
Sample : L729564-04 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:21 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

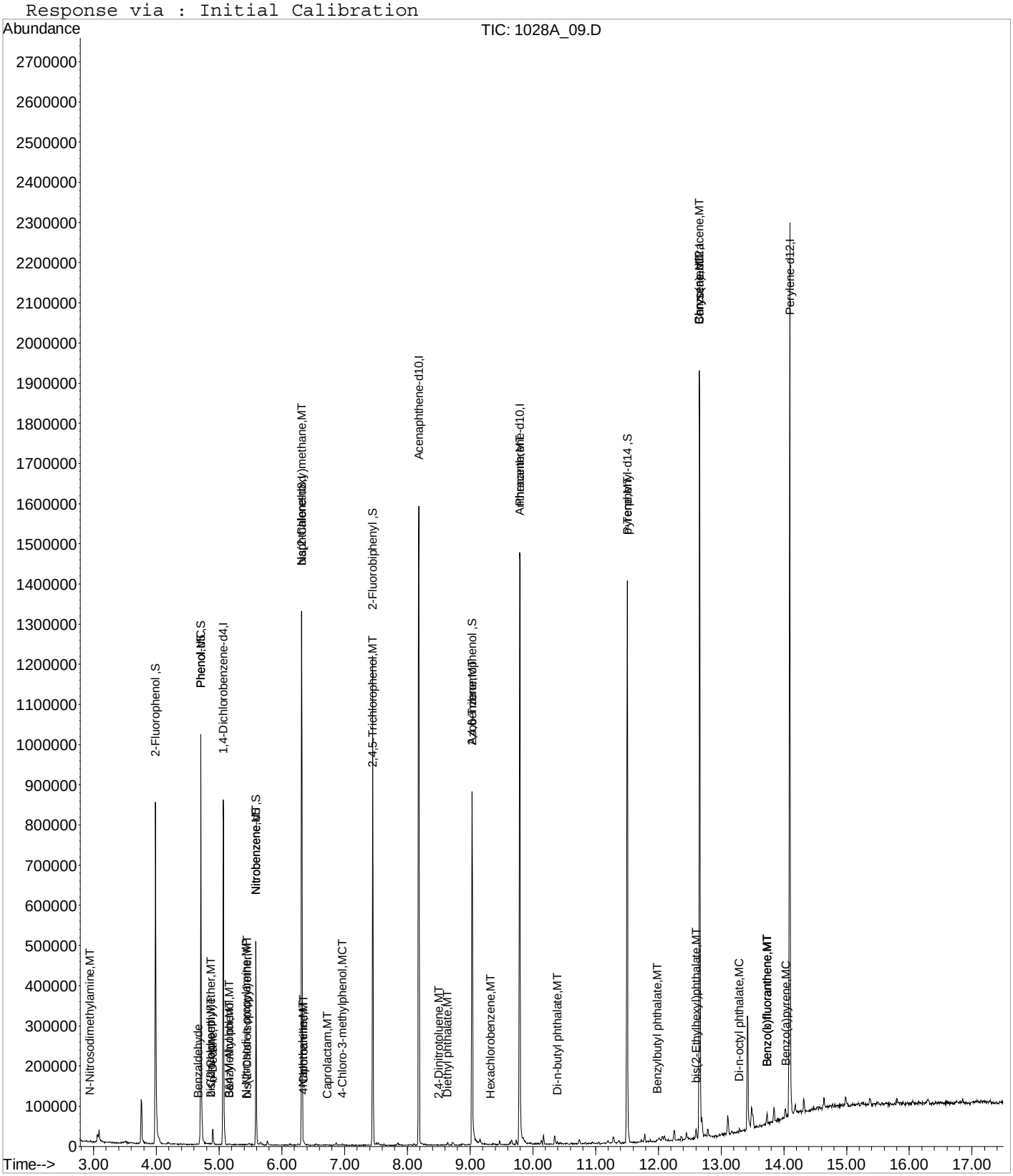
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	7.44	196	66	N.D.	
45)	Biphenyl	7.56	154	57	N.D.	
46)	2-Chloronaphthalene	7.54	162	67	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.87	163	97	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	8.23	153	60	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	8.60	168	55	N.D.	
55)	2,4-Dinitrotoluene	8.50	165	54	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	678	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	9.03	77	754	N.D.	
63)	Atrazine	0.00	200	0	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	9.33	284	53	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D.	
72)	Phenanthrene	10.05	178	63	N.D.	
73)	Anthracene	9.80	178	832	N.D.	
74)	Carbazole	9.96	167	115	N.D.	
75)	Di-n-butyl phthalate	10.39	149	3141	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.11	202	169	N.D.	
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.50	202	1713	N.D.	
82)	Benzylbutyl phthalate	11.97	149	325	N.D.	
83)	3,3-Dichlorobenzidine	12.61	252	54	N.D.	
84)	Benzo(a)anthracene	12.66	228	2172	N.D.	
85)	Chrysene	12.66	228	2172	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	8607	2.8271169 ppb	95
87)	Di-n-octyl phthalate	13.30	149	7605	N.D.	
89)	Benzo(b)fluoranthene	13.74	252	752	N.D.	
90)	Benzo(k)fluoranthene	13.74	252	753	N.D.	
91)	Benzo(a)pyrene	14.04	252	567	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.17	276	138	N.D.	
93)	Dibenz(a,h)anthracene	15.15	278	87	N.D.	
94)	Benzo(g,h,i)perylene	15.56	276	55	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 09.D Vial: 38
Acq On : 29 Oct 2014 5:49 am Operator: 280
Sample : L729564-04 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:21 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\102814A\1028A 10.D Vial: 39
Acq On : 29 Oct 2014 6:11 am Operator: 280
Sample : L729564-05 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:21 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	5.06	152	129445	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	528460	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	346105	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	610366	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	696652	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	814073	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	277483	404.9614361 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 60.81%		
7) Phenol-d5	4.71	99	305368	365.5478495 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 54.89%		
23) Nitrobenzene-d5	5.59	82	147733	192.3627497 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 57.77%		
44) 2-Fluorobiphenyl	7.45	172	376935	214.5800427 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 64.44%		
67) 2,4,6-Tribromophenol	9.03	330	84197	404.9134456 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 60.80%		
81) p-Terphenyl-d14	11.50	244	475859	187.4549962 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 56.29%		

Target Compounds					Qvalue
2) Pyridine	2.92	79	60	N.D.	
3) N-Nitrosodimethylamine	2.94	42	377	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	326	N.D.	
9) Benzaldehyde	4.68	105	128	N.D.	
10) 2-Chlorophenol	4.88	128	174	N.D.	
11) n-Decane	4.90	41	7555	16.9428355 ppb	88
12) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	5.16	79	918	N.D.	
15) 1,2-Dichlorobenzene	5.24	146	129	N.D.	
16) bis(2-Chloroisopropyl)ethe	5.16	121	361	N.D.	
17) 2-Methylphenol	5.17	108	135	N.D.	
18) Hexachloroethane	5.57	117	66	N.D.	
19) N-Nitrosodi-n-propylamine	5.37	70	108	N.D.	
20) 3&4-Methyl phenol	5.38	107	53	N.D.	
21) Acetophenone	5.44	105	270	N.D.	
24) Nitrobenzene	5.59	77	681	N.D.	
25) Isophorone	5.86	82	135	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	5.81	93	58	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	3008	N.D.	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	6.30	225	57	N.D.	
35) Caprolactam	6.72	113	62	N.D.	
36) 4-Chloro-3-methylphenol	6.91	107	69	N.D.	
37) 2-Methylnaphthalene	7.07	142	679	N.D.	
38) 1-Methylnaphthalene	7.17	142	248	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 10.D Vial: 39
Acq On : 29 Oct 2014 6:11 am Operator: 280
Sample : L729564-05 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:21 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

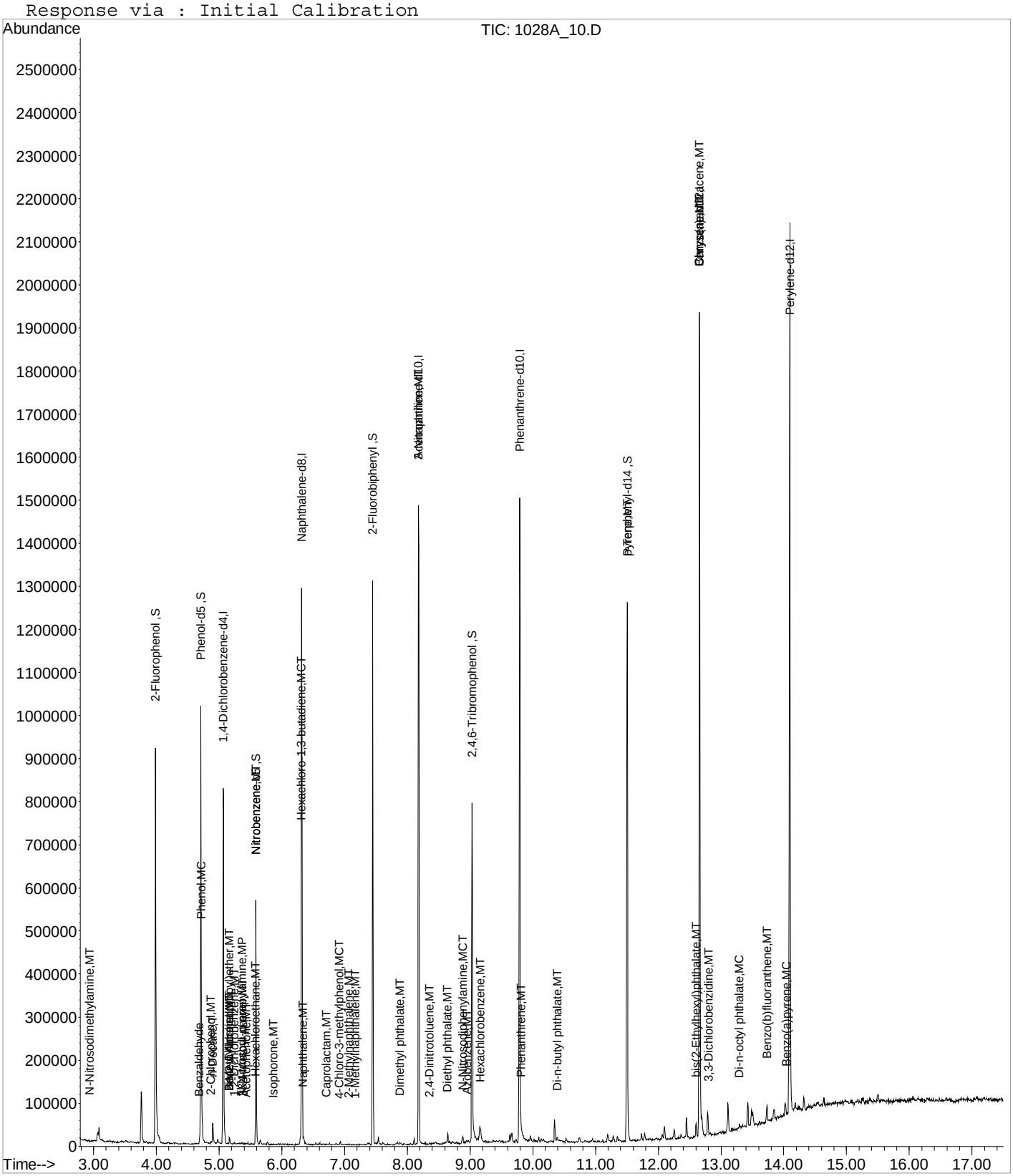
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.55	154	65	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	7.88	163	437	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	8.17	138	85	N.D.	
52)	Acenaphthene	8.18	153	94	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	8.40	168	65	N.D.	
55)	2,4-Dinitrotoluene	8.36	165	75	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	8.77	166	80	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	825	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	8.95	77	933	N.D.	
63)	Atrazine	0.00	200	0	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	8.89	169	403	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	9.17	284	68	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D.	
72)	Phenanthrene	9.82	178	325	N.D.	
73)	Anthracene	9.66	178	76	N.D.	
74)	Carbazole	10.06	167	64	N.D.	
75)	Di-n-butyl phthalate	10.39	149	5822	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.11	202	213	N.D.	
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.50	202	1643	N.D.	
82)	Benzylbutyl phthalate	11.87	149	86	N.D.	
83)	3,3-Dichlorobenzidine	12.80	252	111	N.D.	
84)	Benzo(a)anthracene	12.66	228	2050	N.D.	
85)	Chrysene	12.66	228	2050	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	11009	3.9870311 ppb	98
87)	Di-n-octyl phthalate	13.30	149	6439	N.D.	
89)	Benzo(b)fluoranthene	13.73	252	682	N.D.	
90)	Benzo(k)fluoranthene	13.78	252	73	N.D.	
91)	Benzo(a)pyrene	14.04	252	722	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.43	276	100	N.D.	
93)	Dibenz(a,h)anthracene	15.15	278	68	N.D.	
94)	Benzo(g,h,i)perylene	15.47	276	60	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102814A\1028A 10.D Vial: 39
Acq On : 29 Oct 2014 6:11 am Operator: 280
Sample : L729564-05 1x WG751073 15-0.5 Inst : BNAMS4
Misc : soil 14J08667/14J20252 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 4 16:21 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)

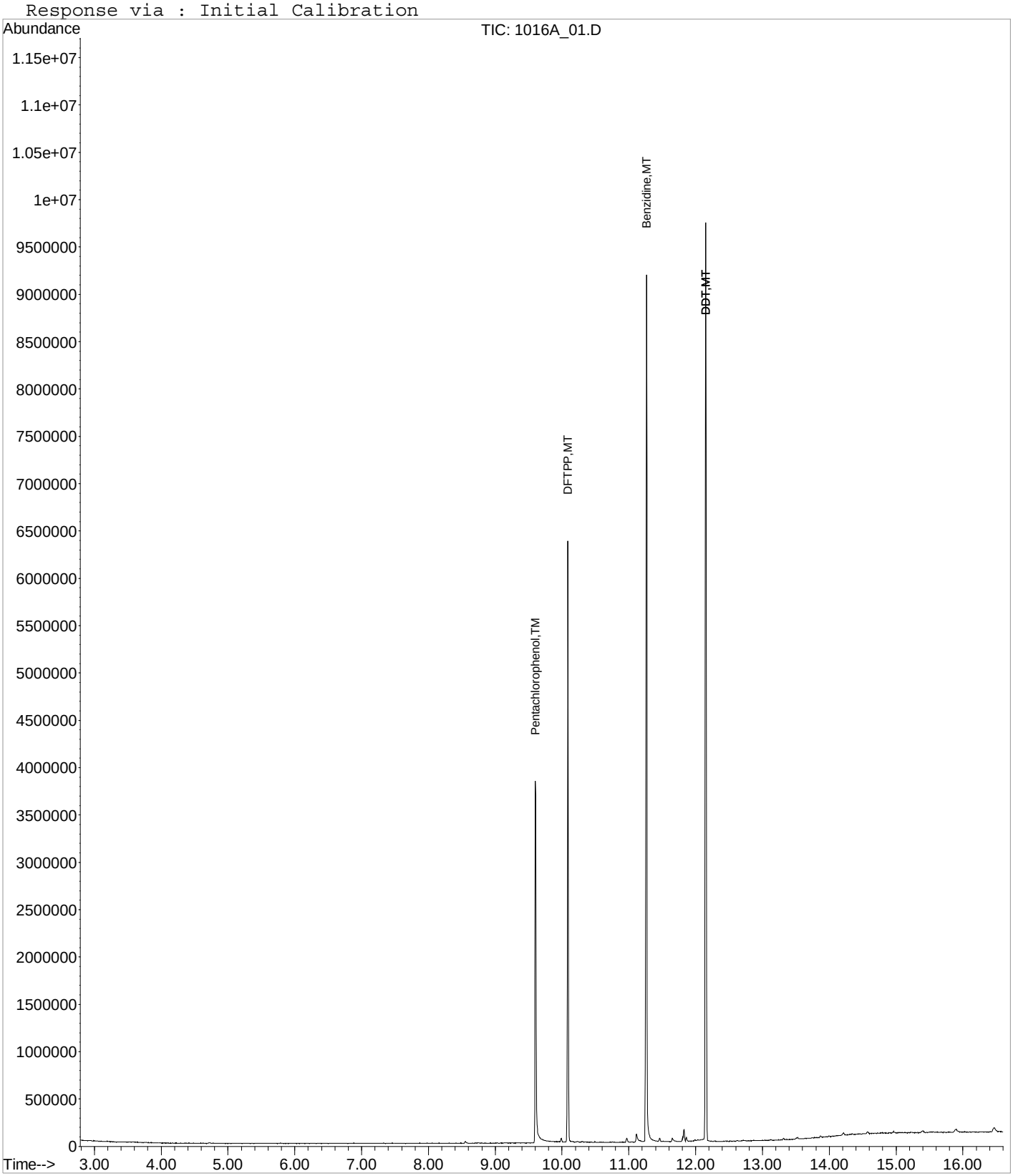
Target Compounds					Qvalue
1) Pentachlorophenol	9.61	264	292685	21.0884261 ug/mL	100
2) DFTPP	10.09	198	696436	29.1726602 ug/mL	100
3) Benzidine	11.26	184	4049969	27.5445061 ug/mL	100
4) DDT	12.15	TIC	9807246	149.7239177 ug/ml	100
5) DDT	12.15	235	1882713	139.9139580 ug/mL	100

(#) = qualifier out of range (m) = manual integration

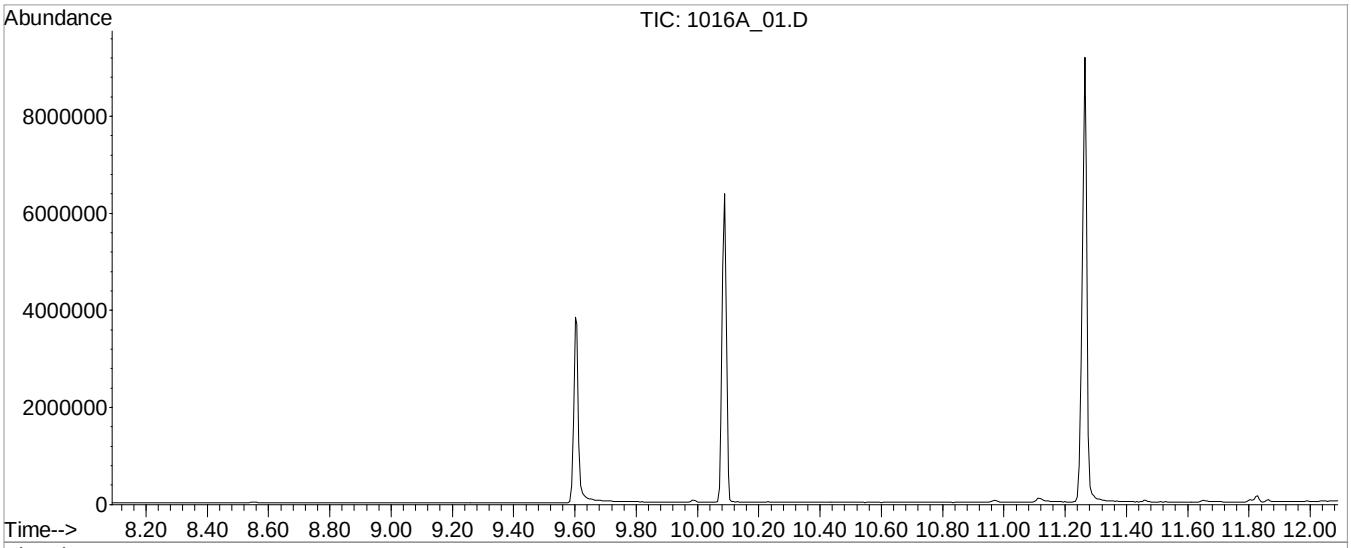
Quantitation Report (QT Reviewed)

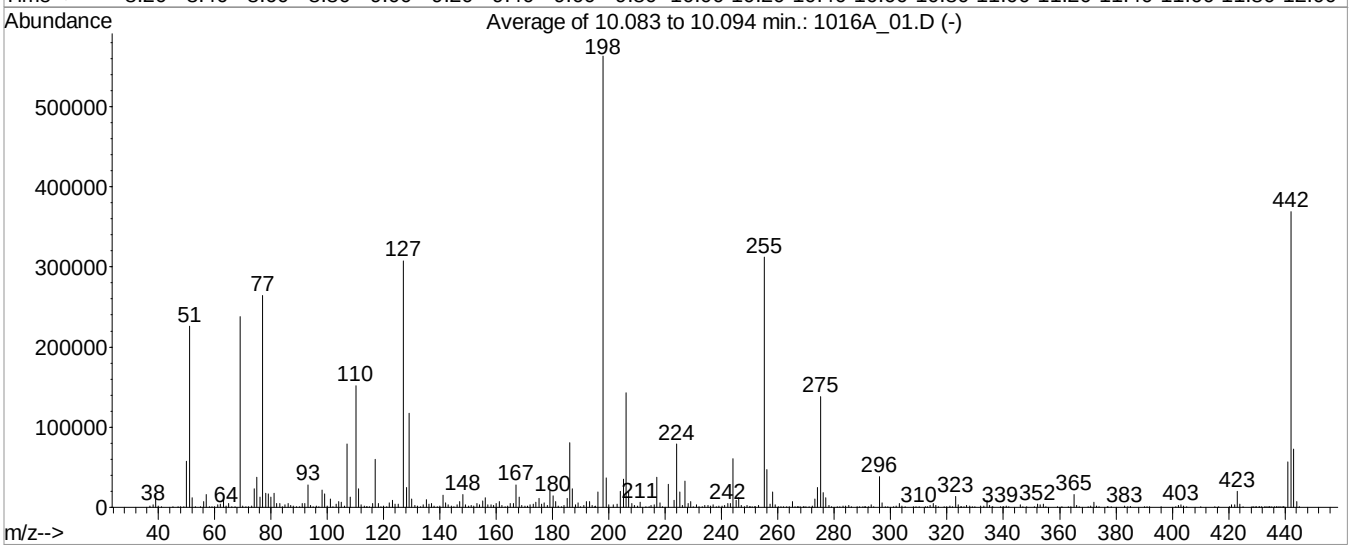
Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: TUNEC.RES

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

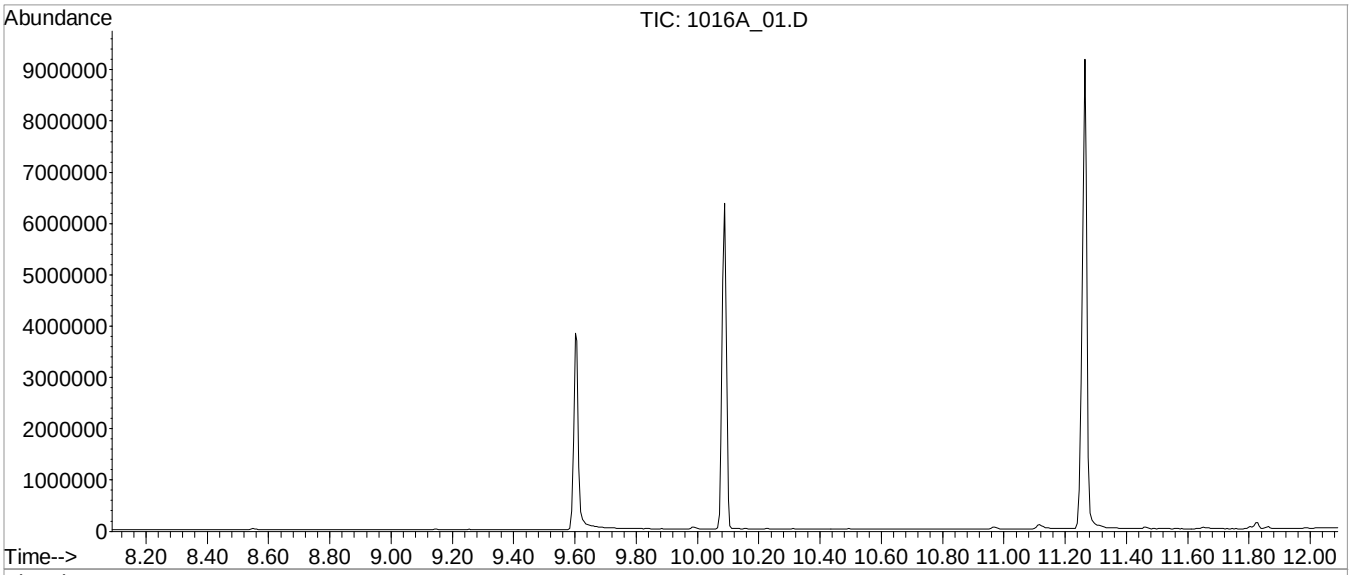


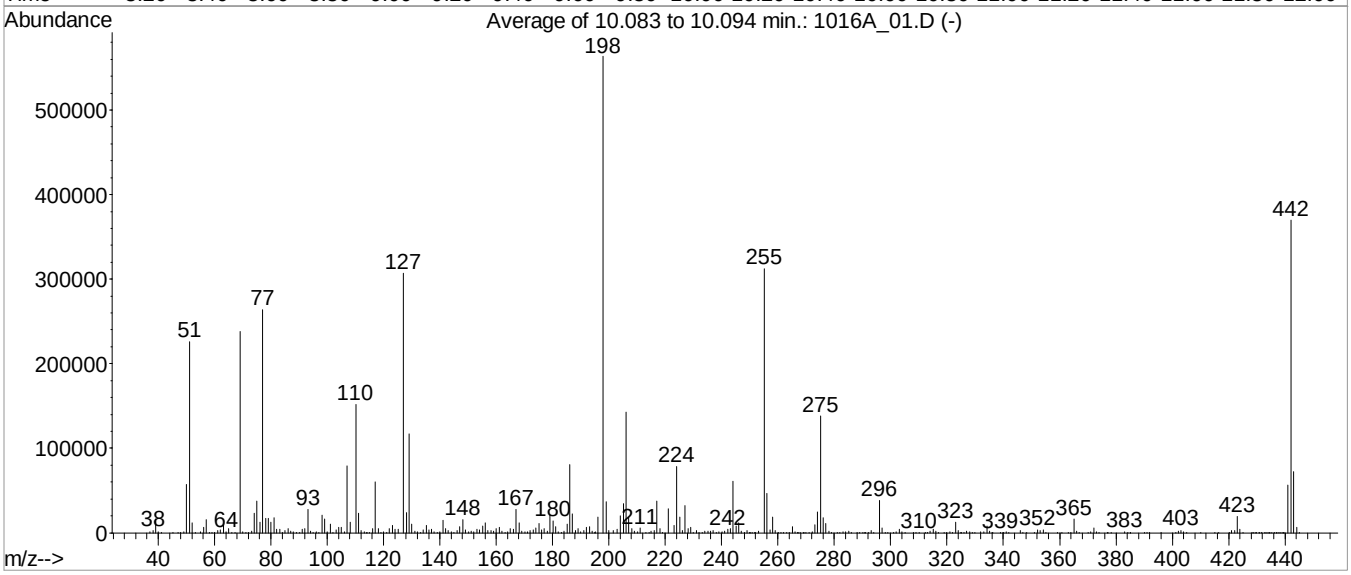


Spectrum Information: Average of 10.083 to 10.094 min.

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





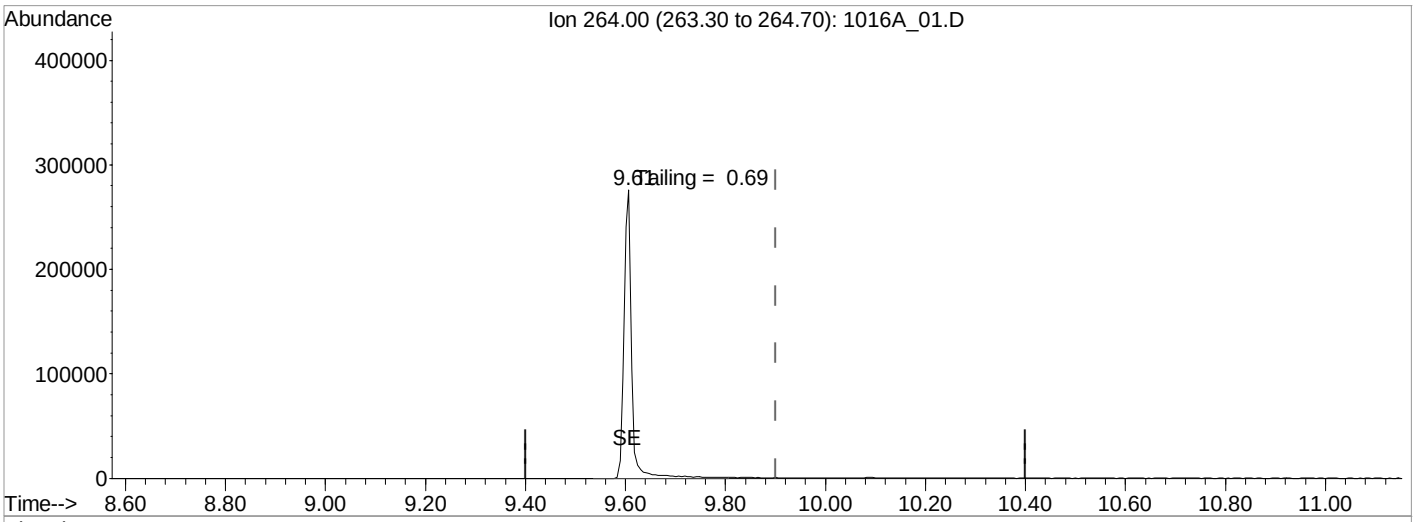
Spectrum Information: Average of 10.083 to 10.094 min.

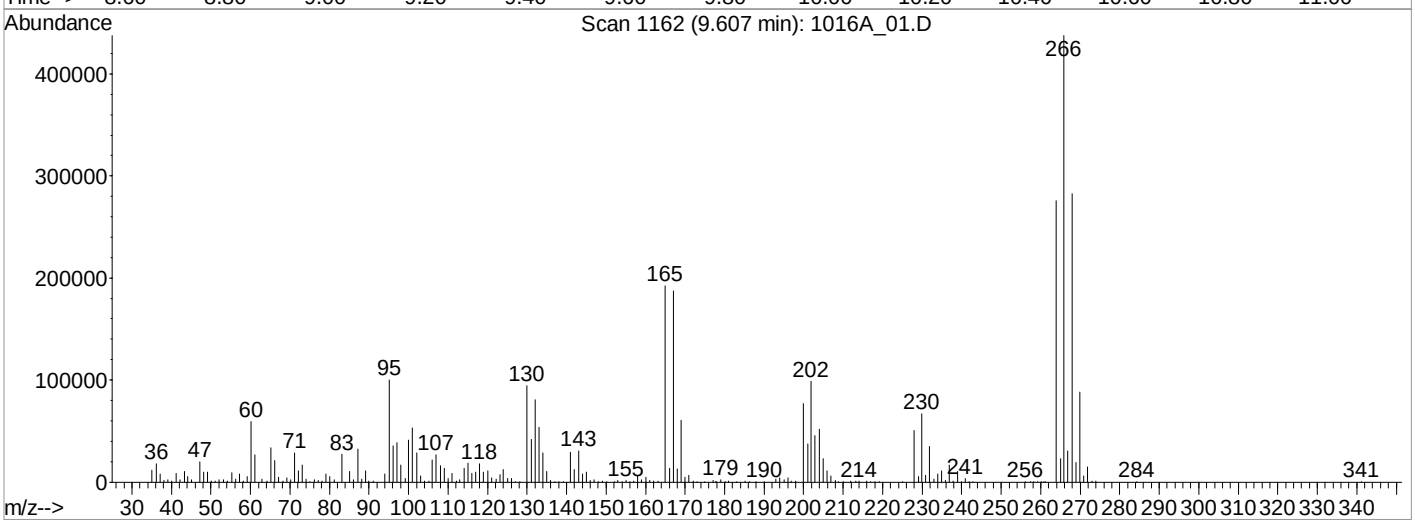
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	226339	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	1118	PASS
127	198	10	80	54.5	307264	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	563754	PASS
199	198	5	9	6.5	36810	PASS
275	198	10	60	24.5	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

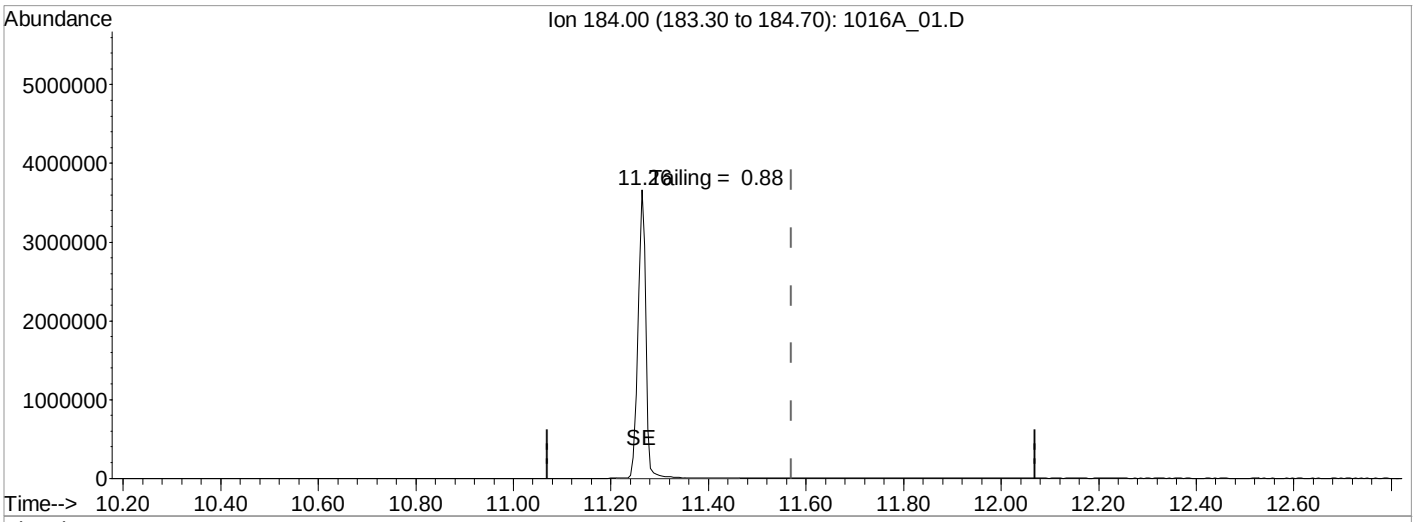
response 292685

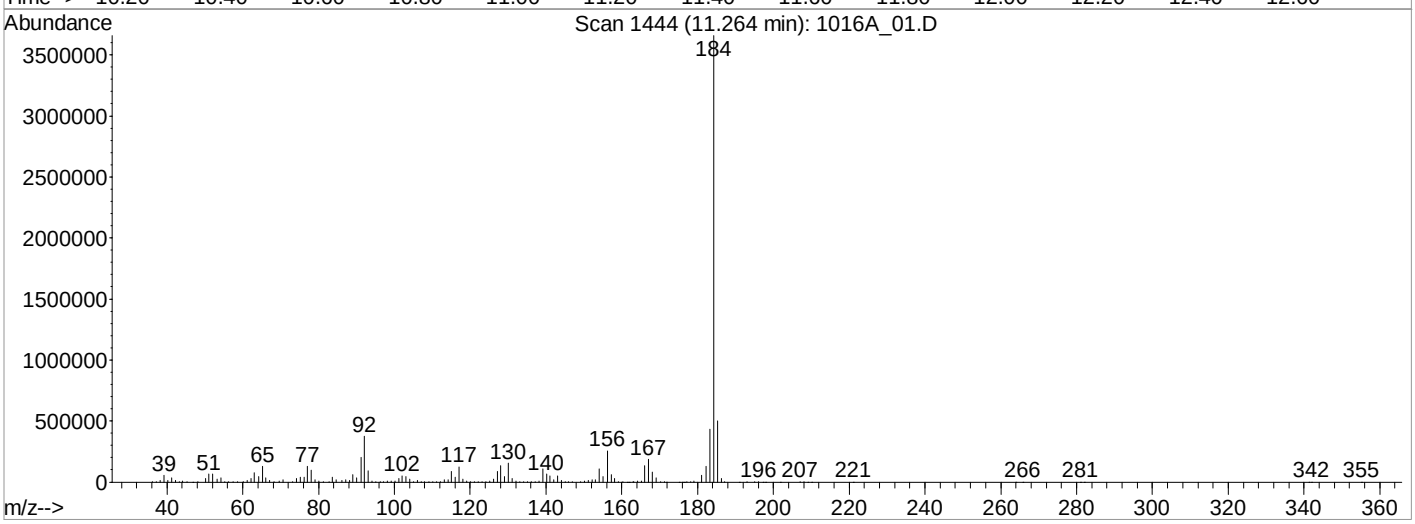
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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

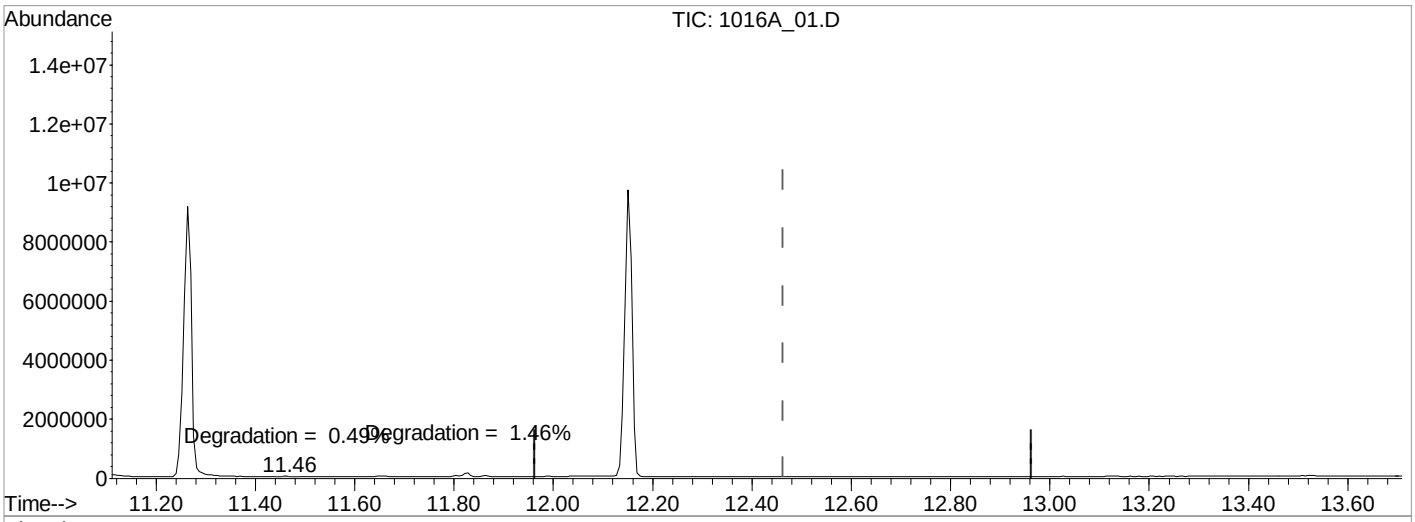
response 4049969

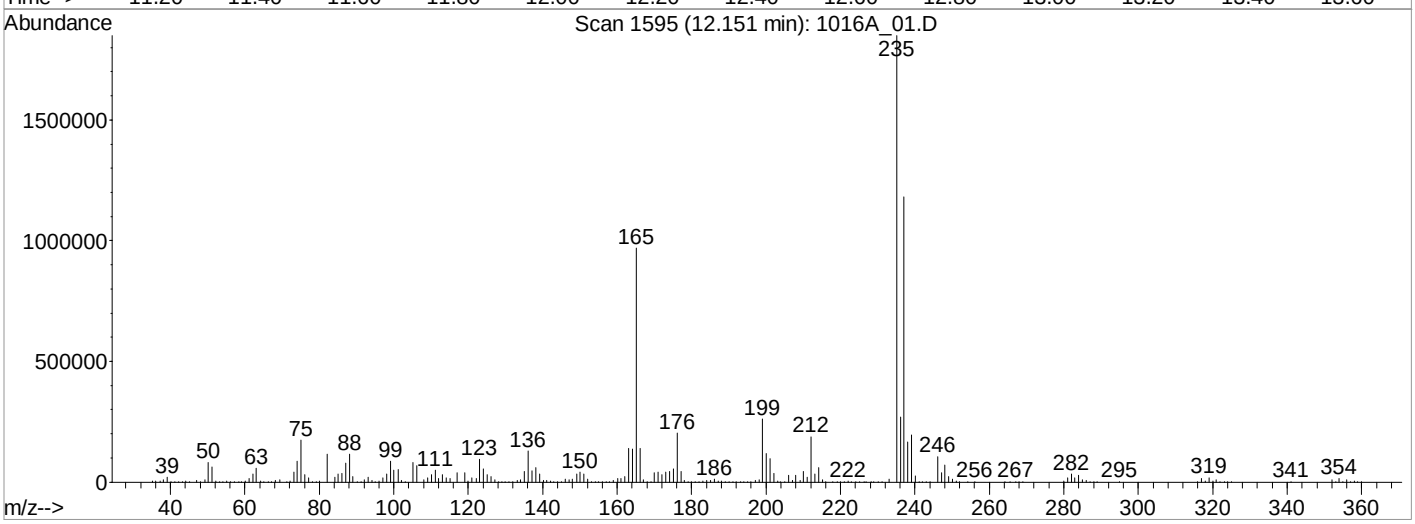
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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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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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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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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
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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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
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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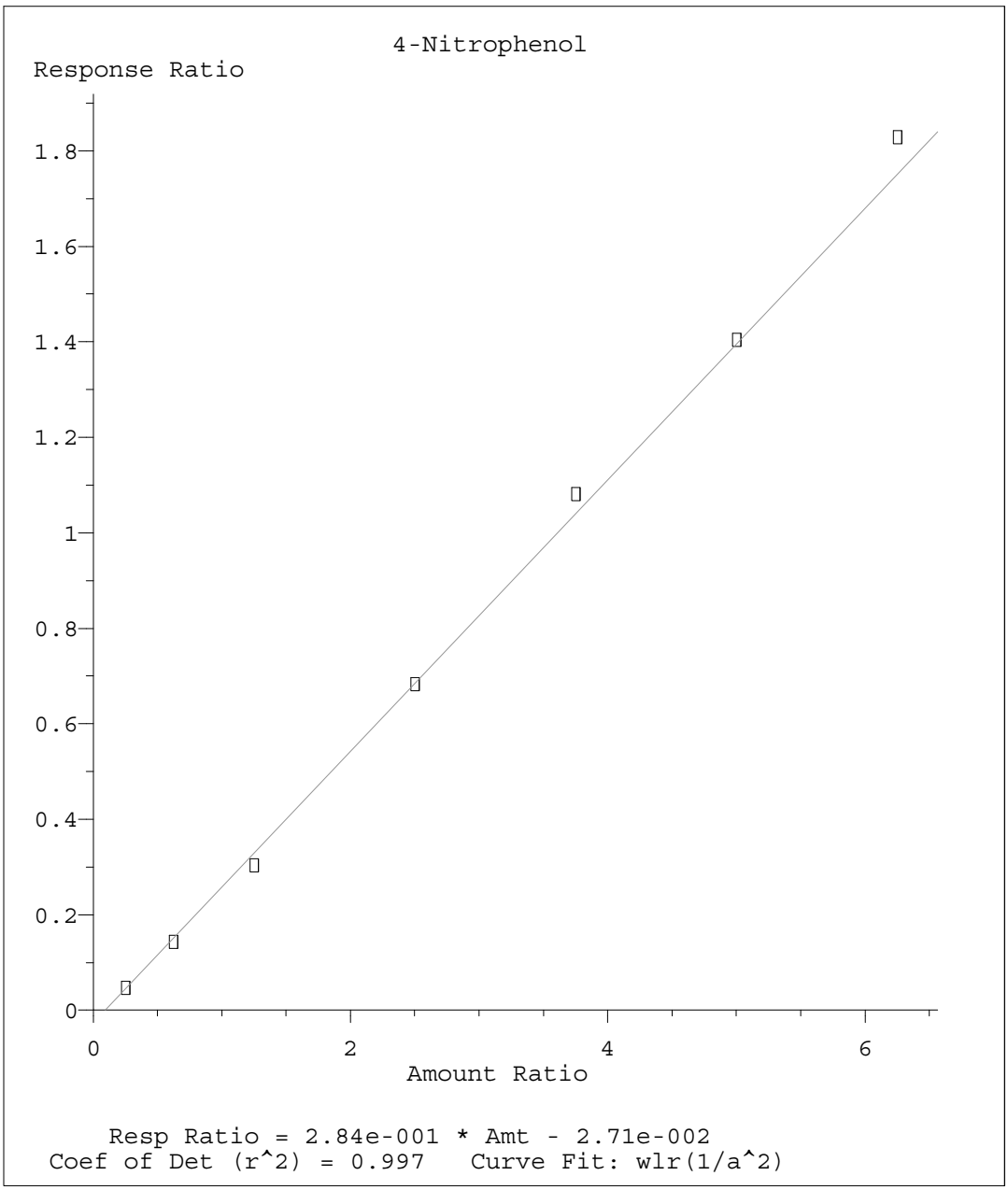
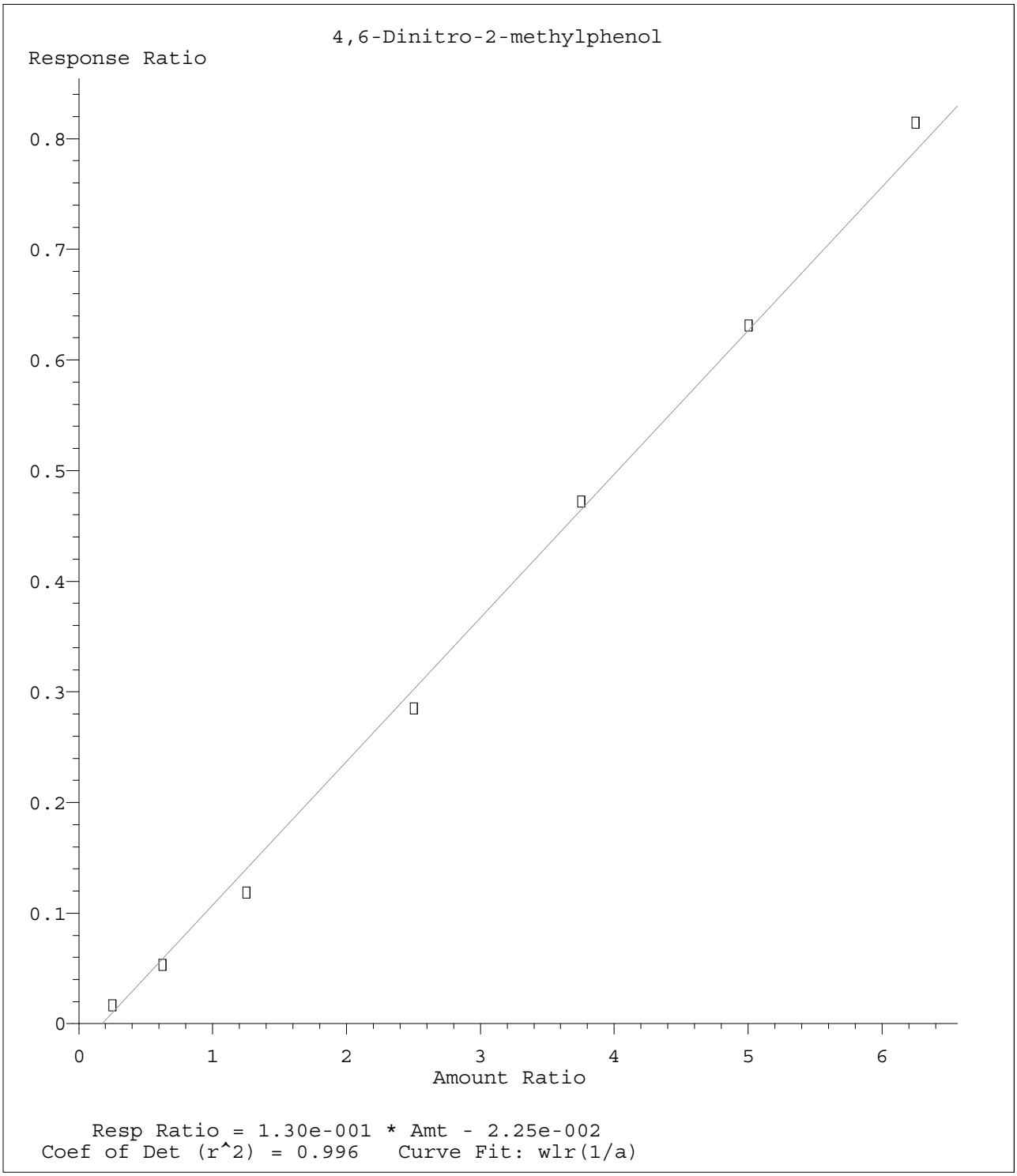
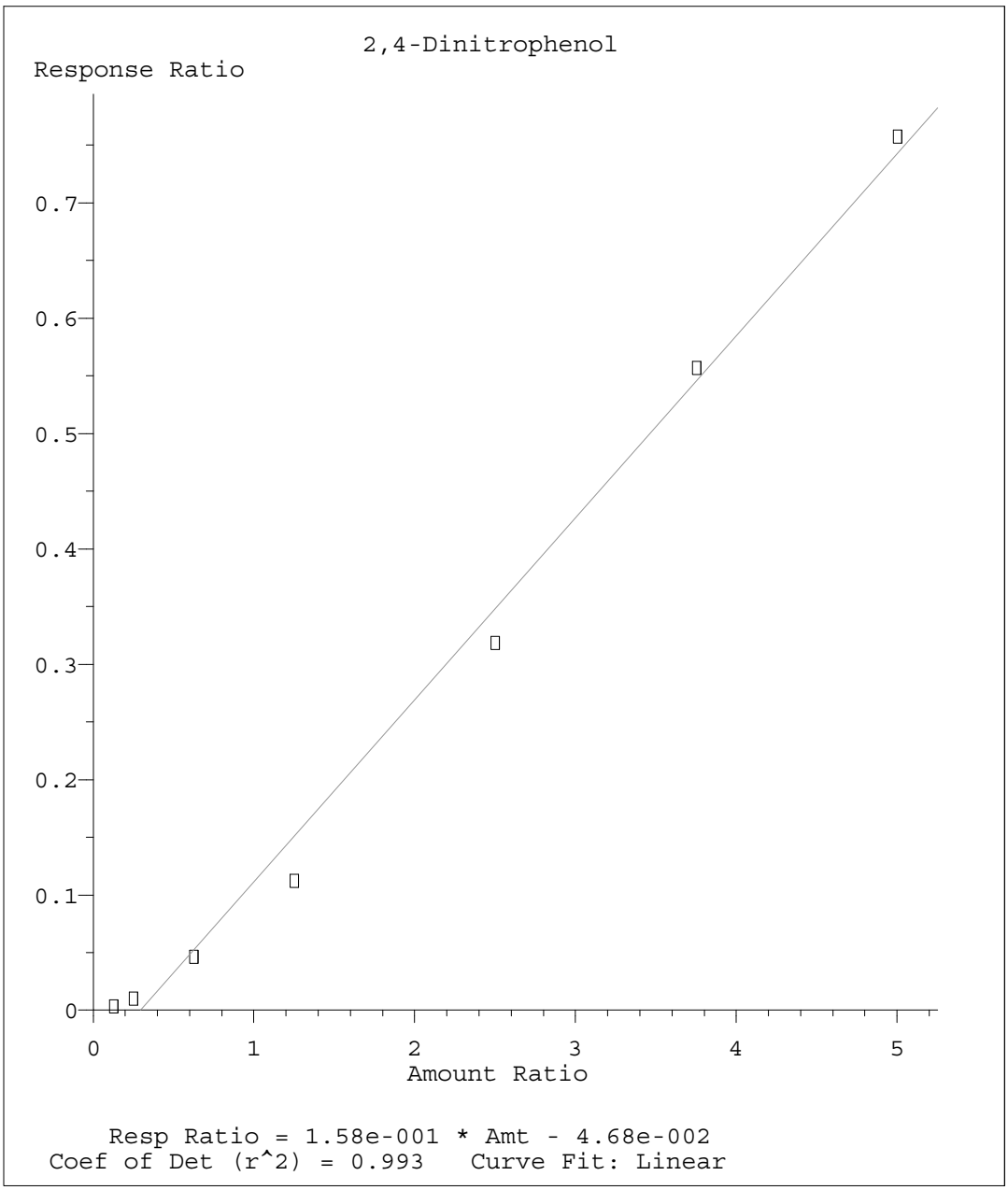


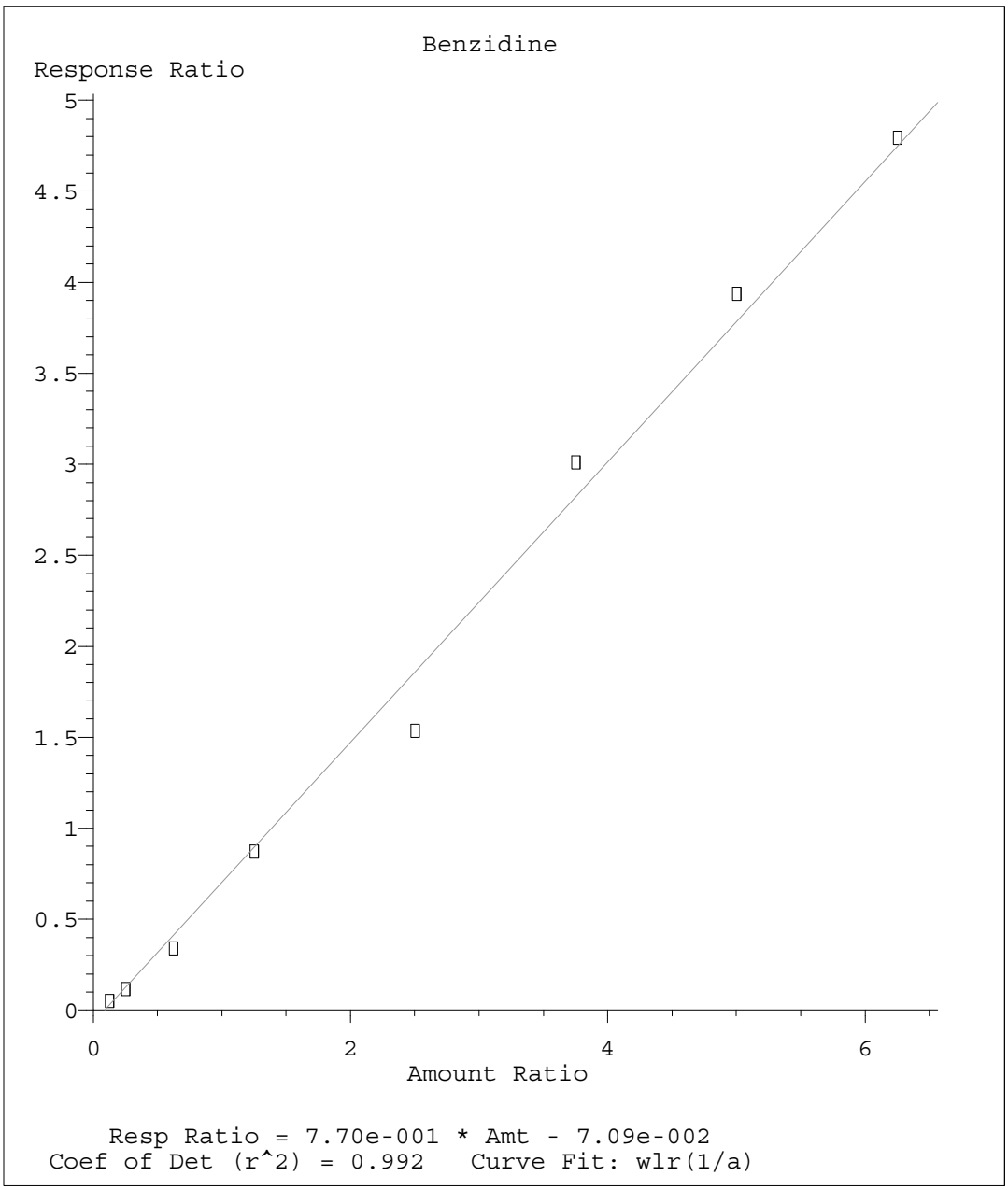
Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M



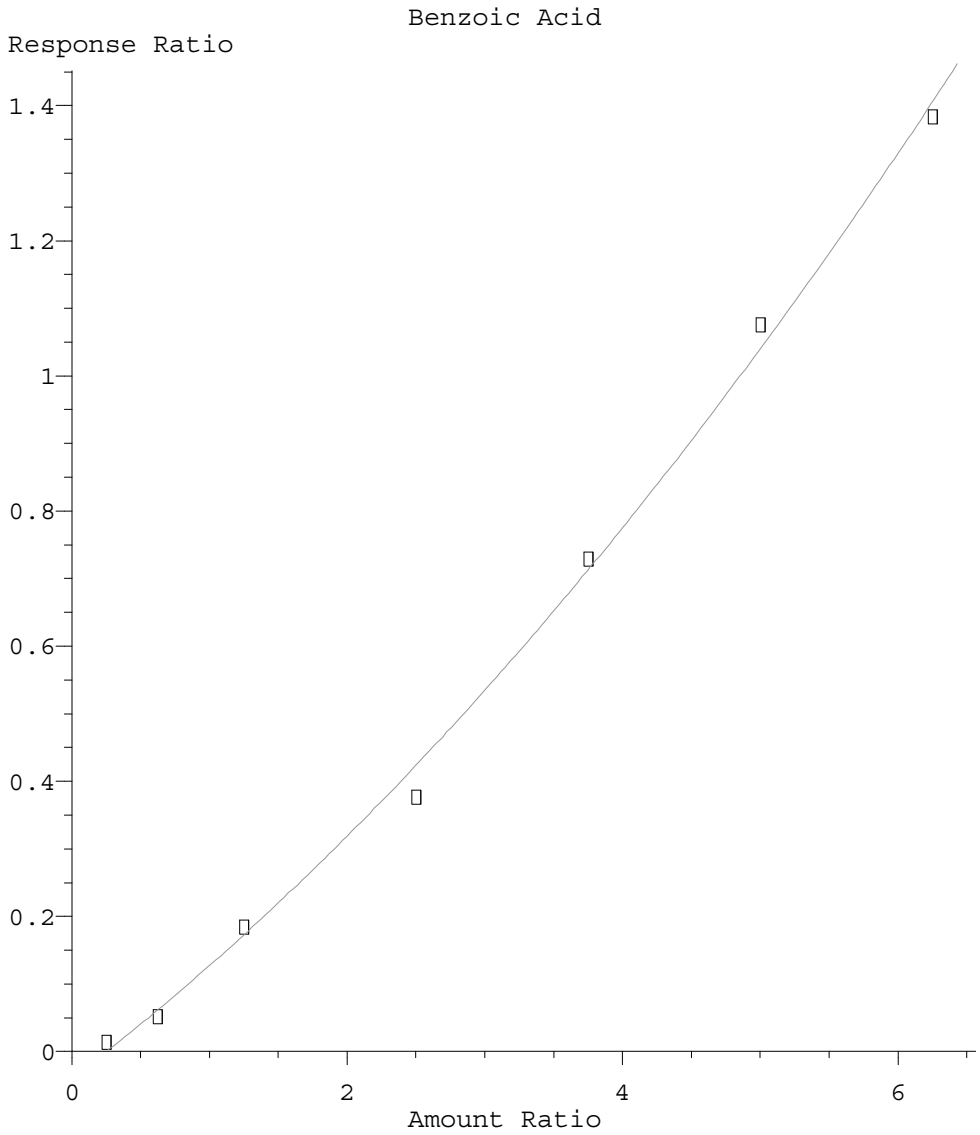
Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M
Calibration Table Last Updated: Fri Oct 17 10:07:59 2014



Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M

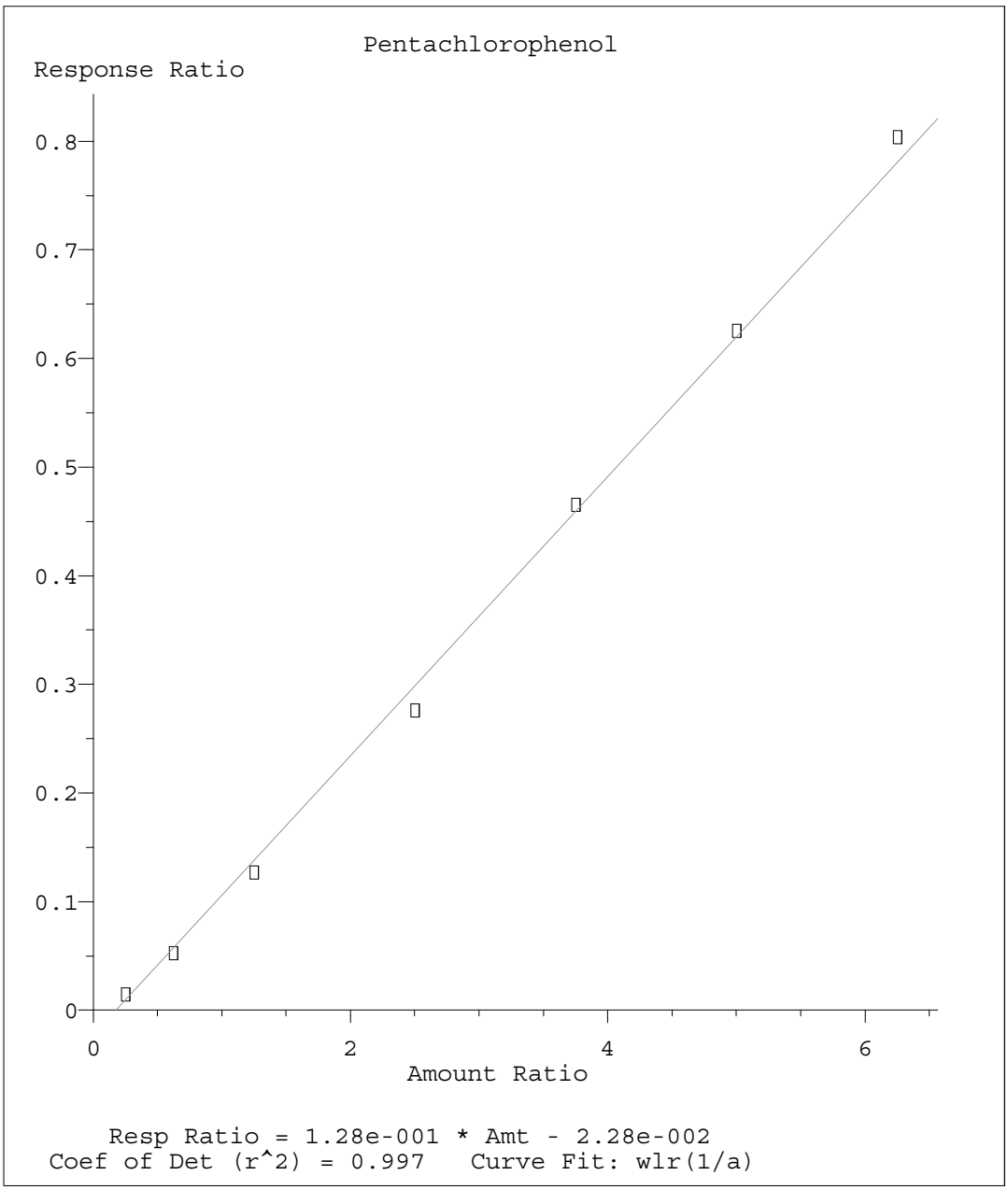


Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M



R = 1.22e-002 A*A + 1.55e-001 A - 4.08e-002
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic

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

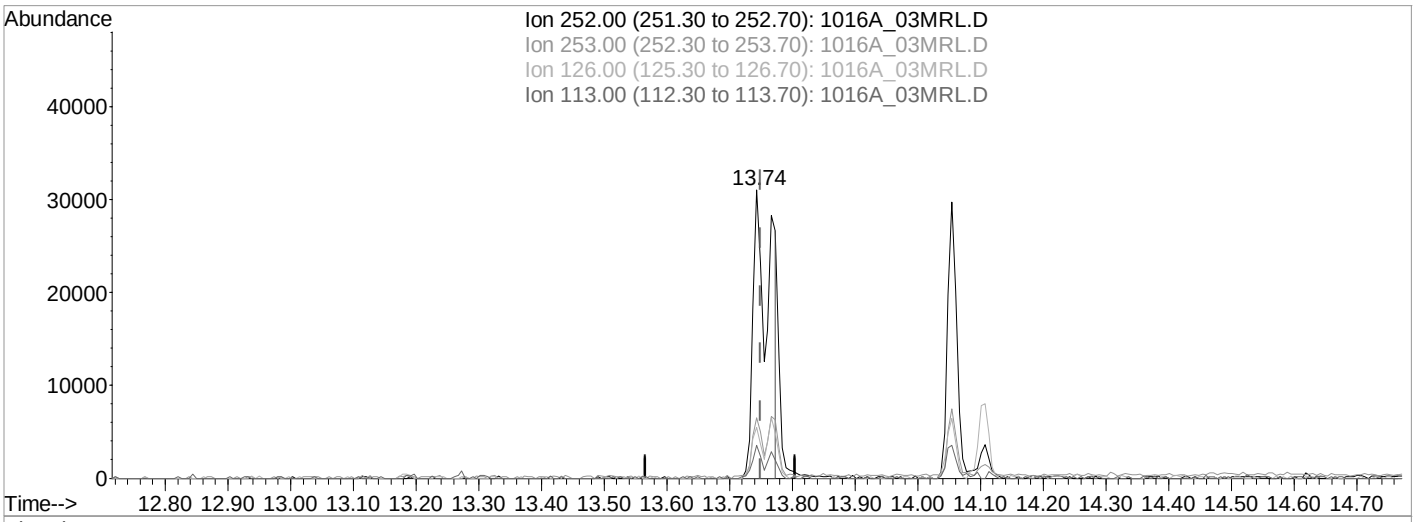
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	1005	60.0581458 ppb	#	87
42)	2,4,6-Trichlorophenol	7.37	196	3042	158.1062090 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	3433	159.6805511 ppb		91
45)	Biphenyl	7.57	154	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

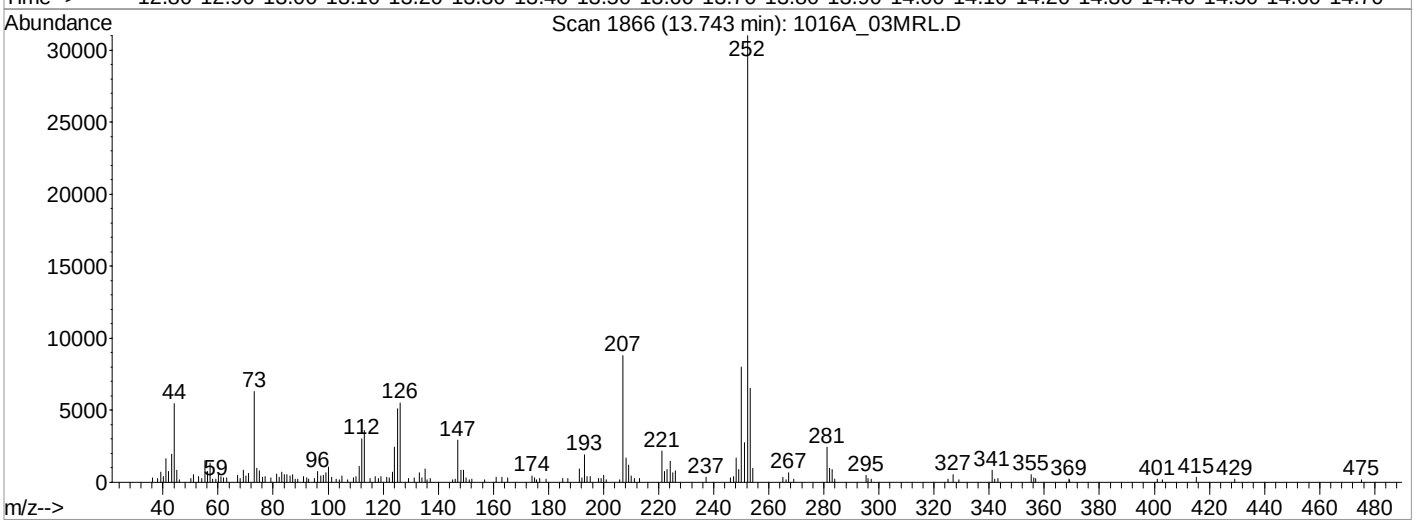
(#) = qualifier out of range (m) = manual integration

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

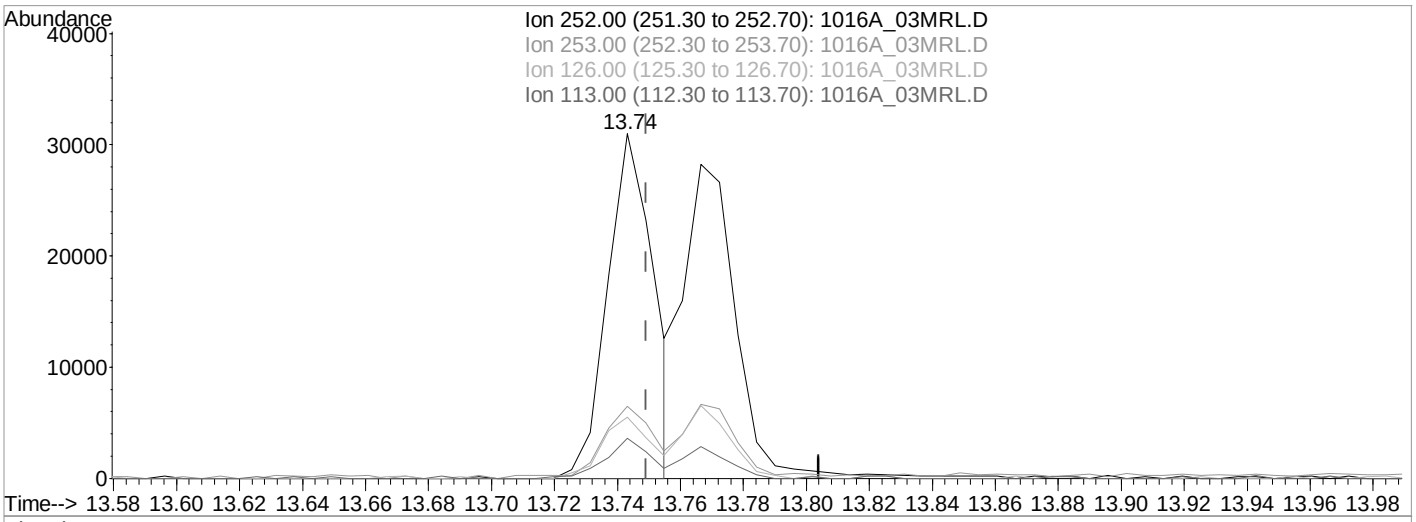
response 56695

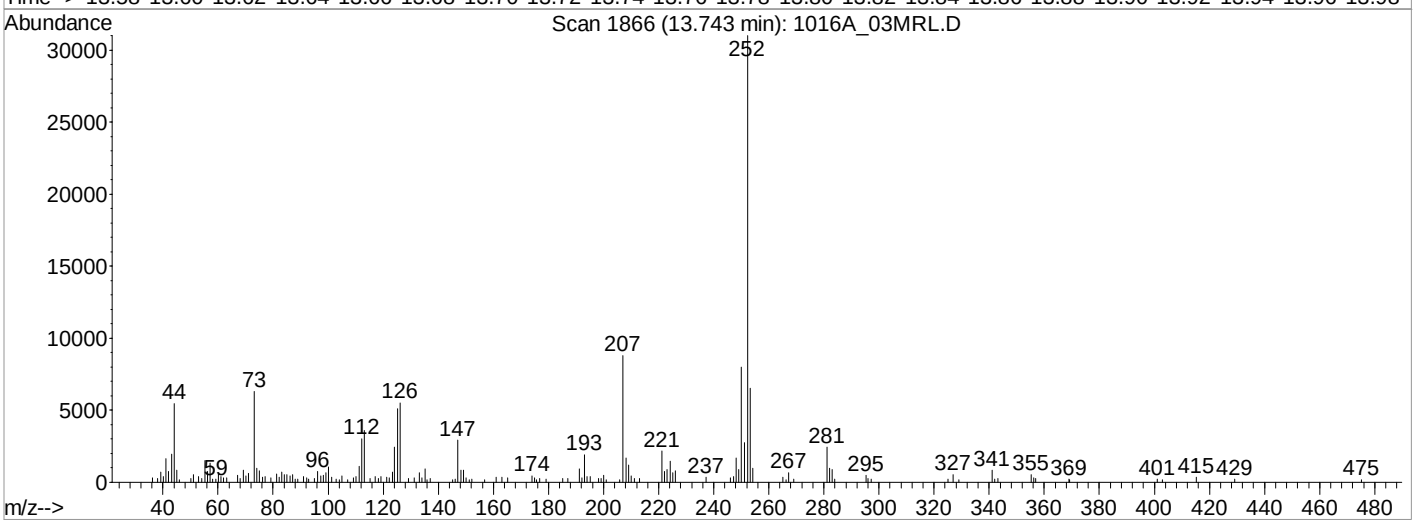
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	18.22
126.00	19.90	17.22
113.00	9.50	14.73

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

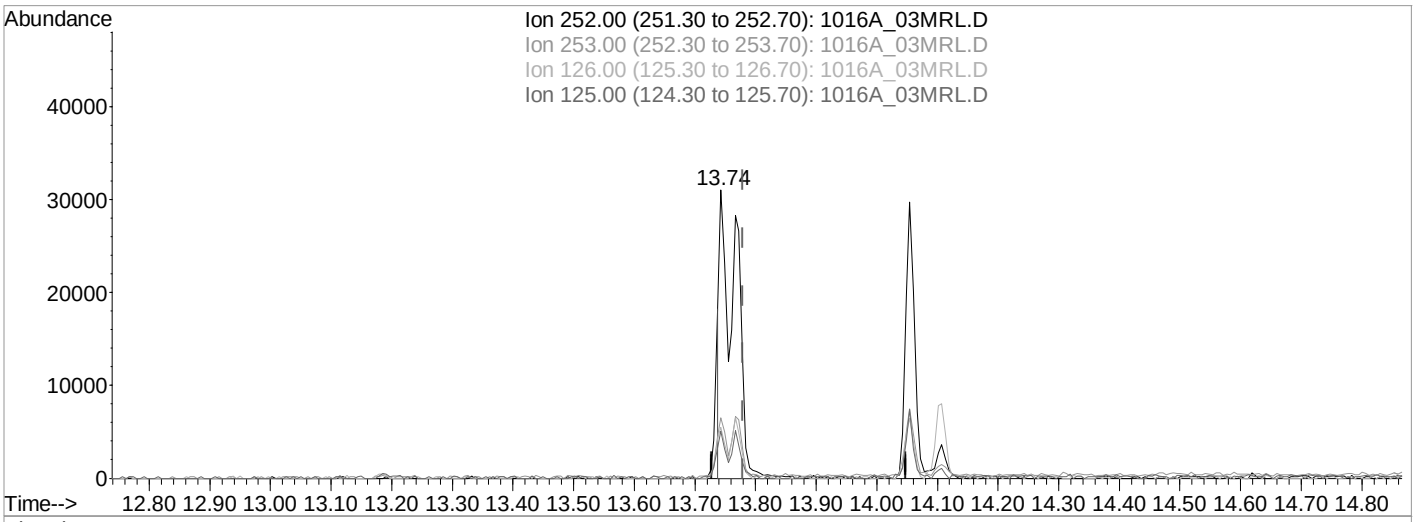
response 31726

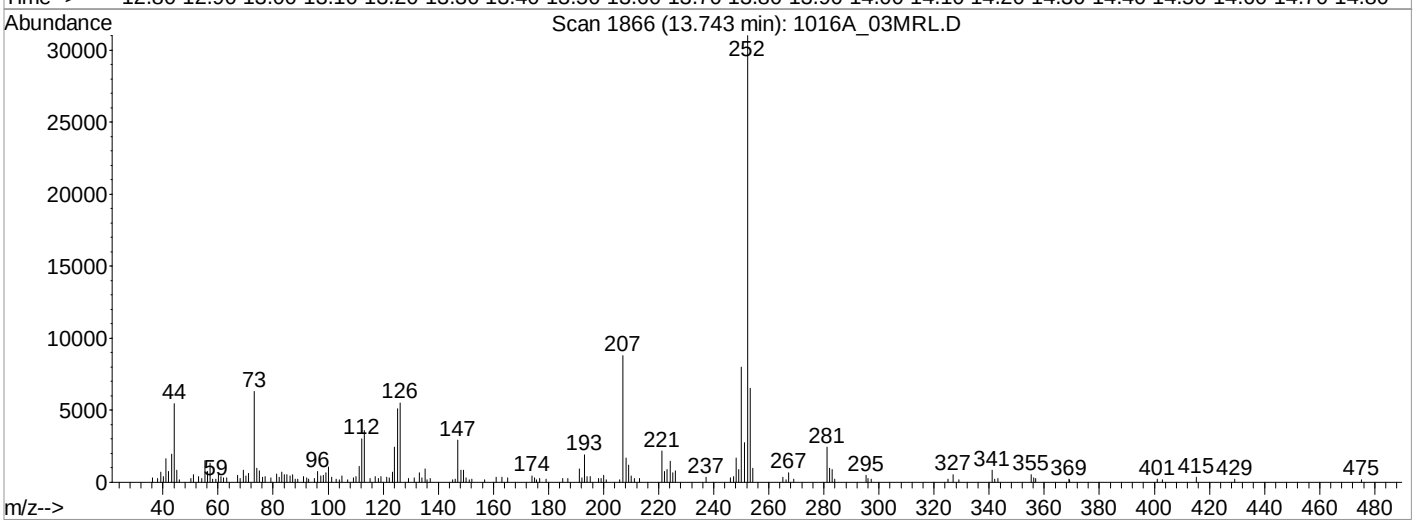
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.96
126.00	19.90	17.75
113.00	9.50	11.55

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

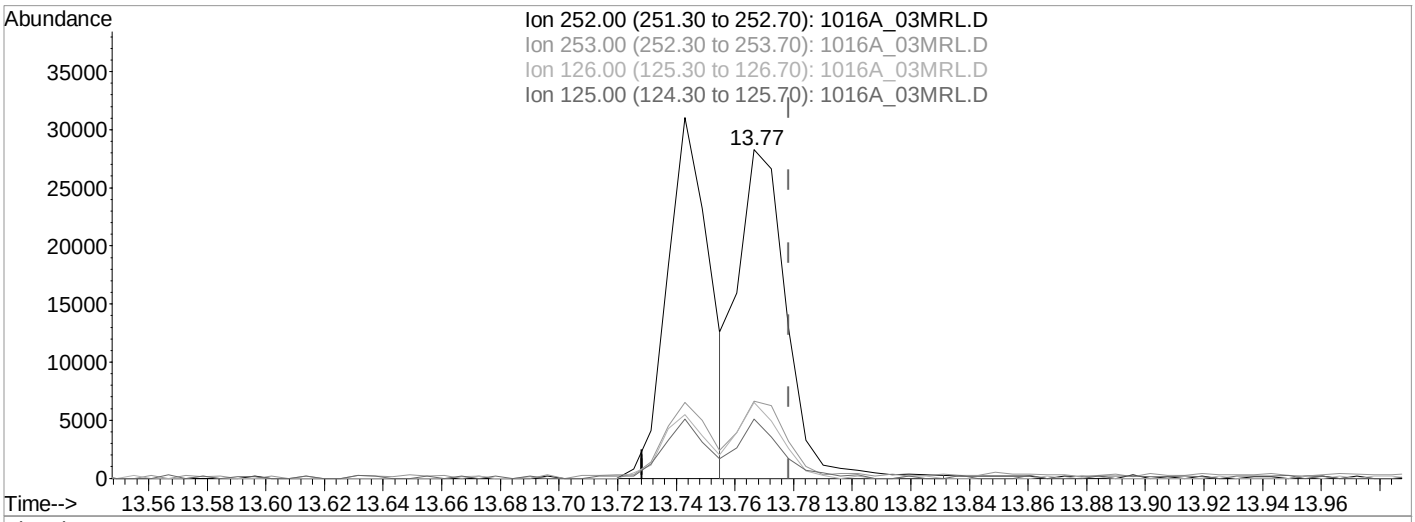
response 56137

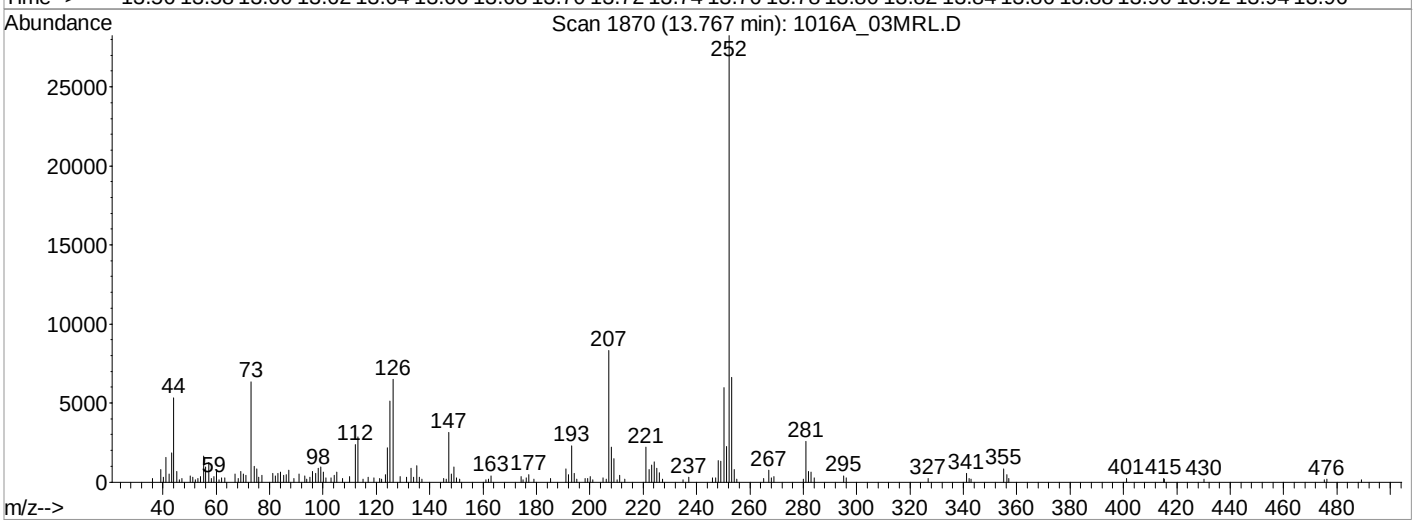
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	19.97
126.00	19.90	17.08
125.00	13.60	16.42

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

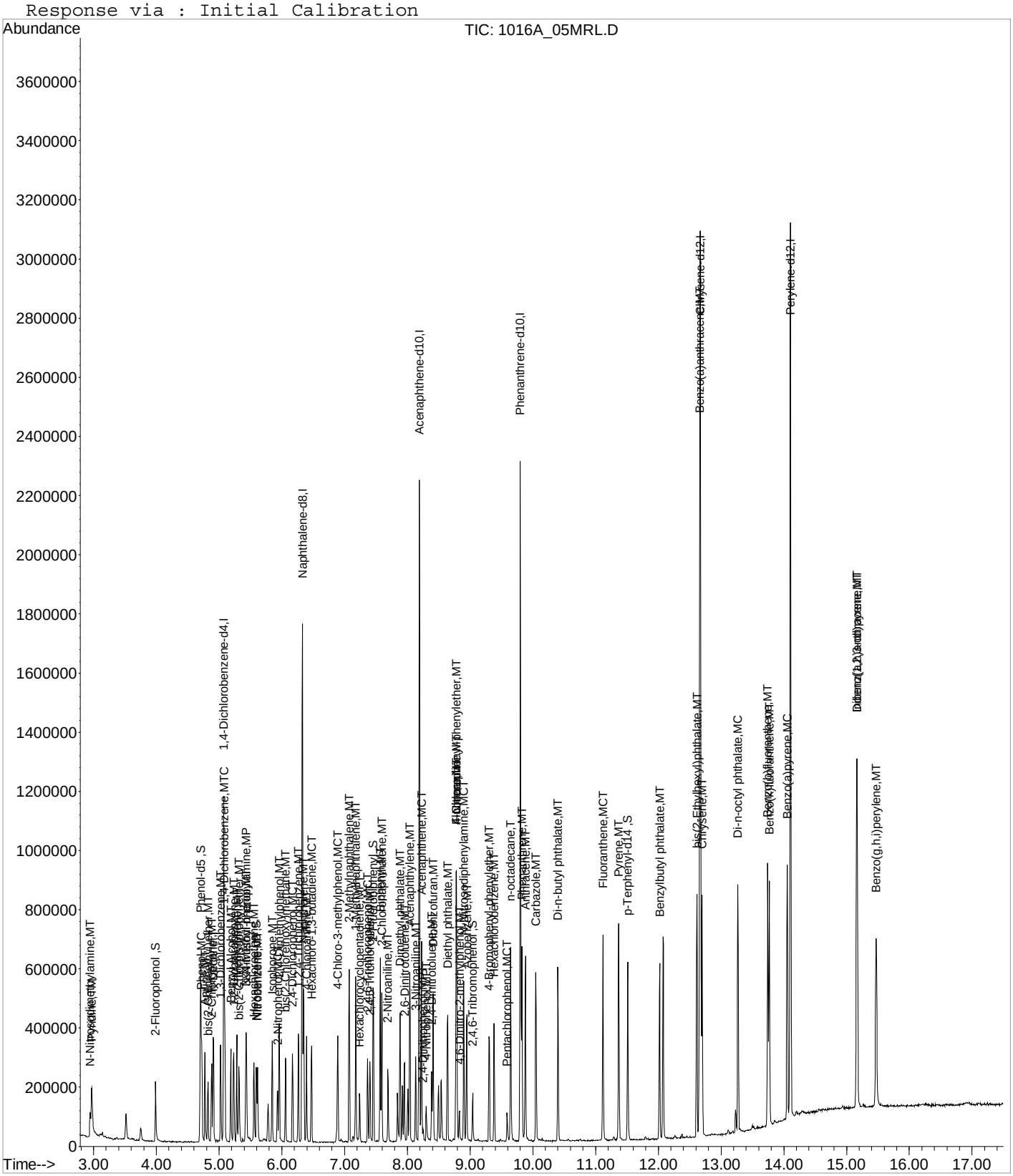
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.24	237	25022	1471.6611169 ppb	98
42)	2,4,6-Trichlorophenol	7.37	196	34267	1752.8539742 ppb	93
43)	2,4,5-Trichlorophenol	7.40	196	41893	1917.7836805 ppb	95
45)	Biphenyl	7.57	154	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

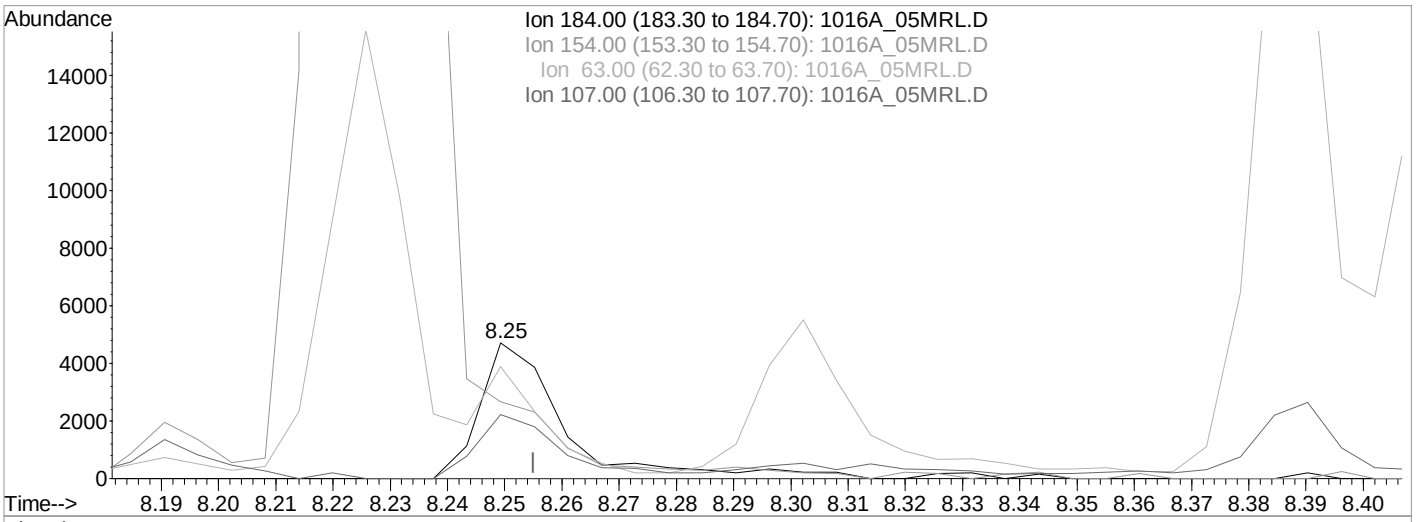
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

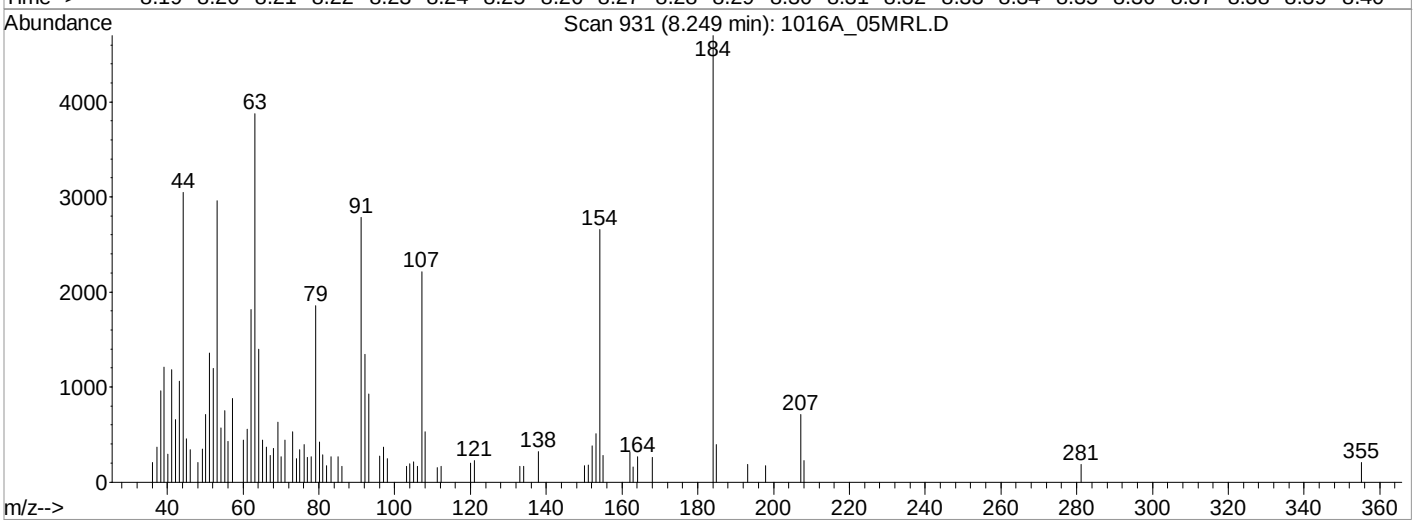


Quantitation Report (Qedit)

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

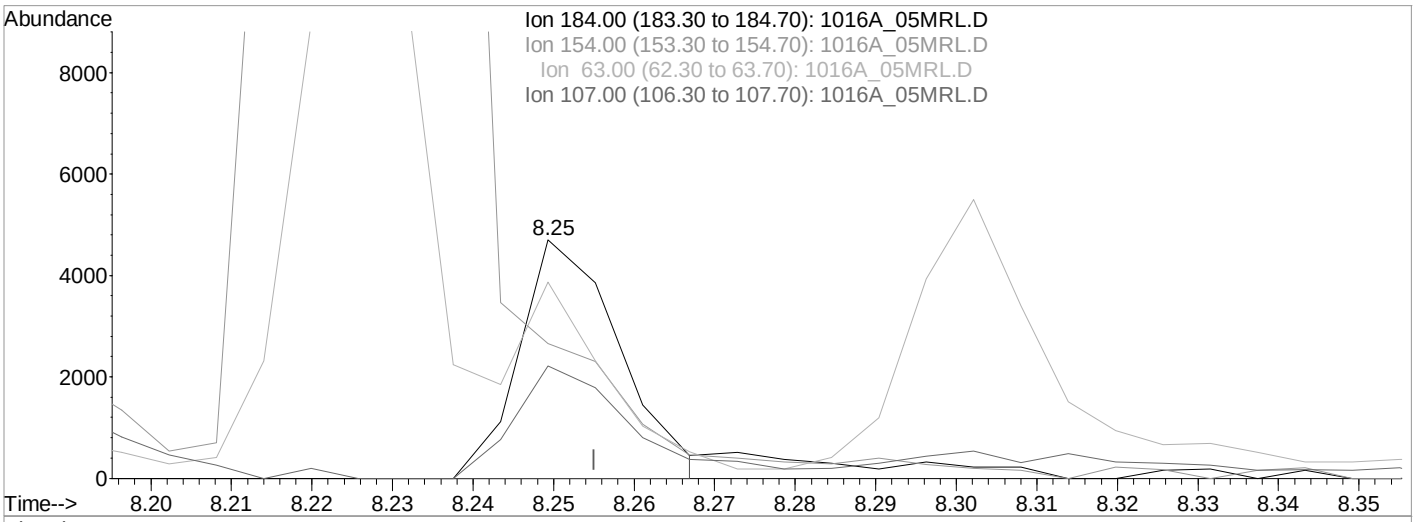
response 4823

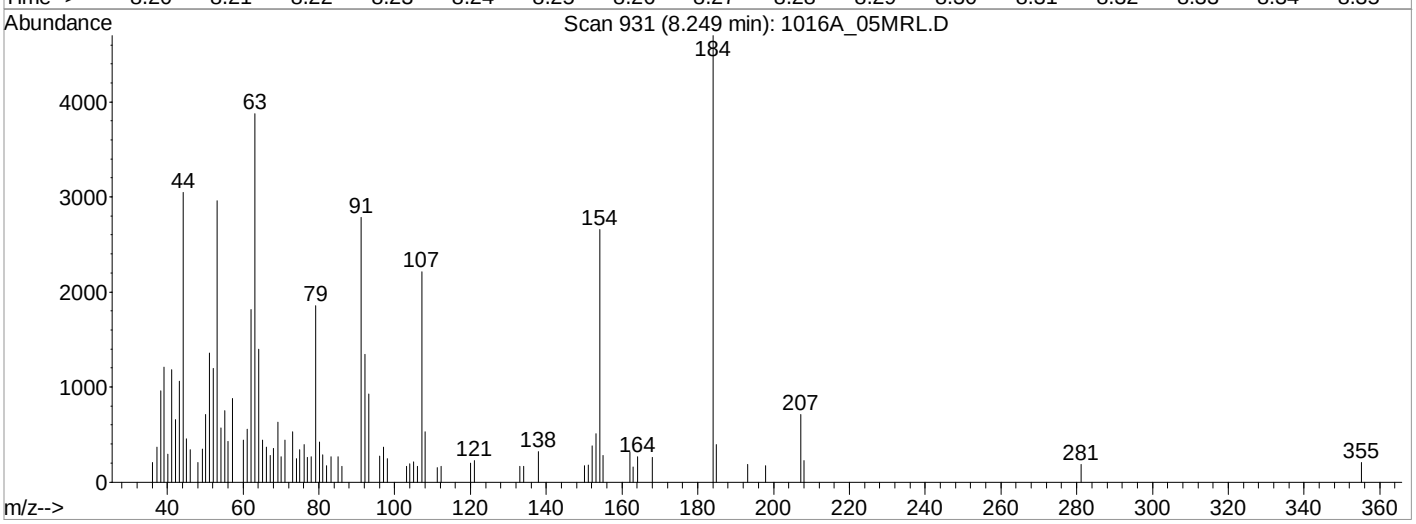
Ion	Exp%	Act%
184.00	100	100
154.00	50.60	56.52
63.00	0.00	50.22#
107.00	42.70	47.10

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

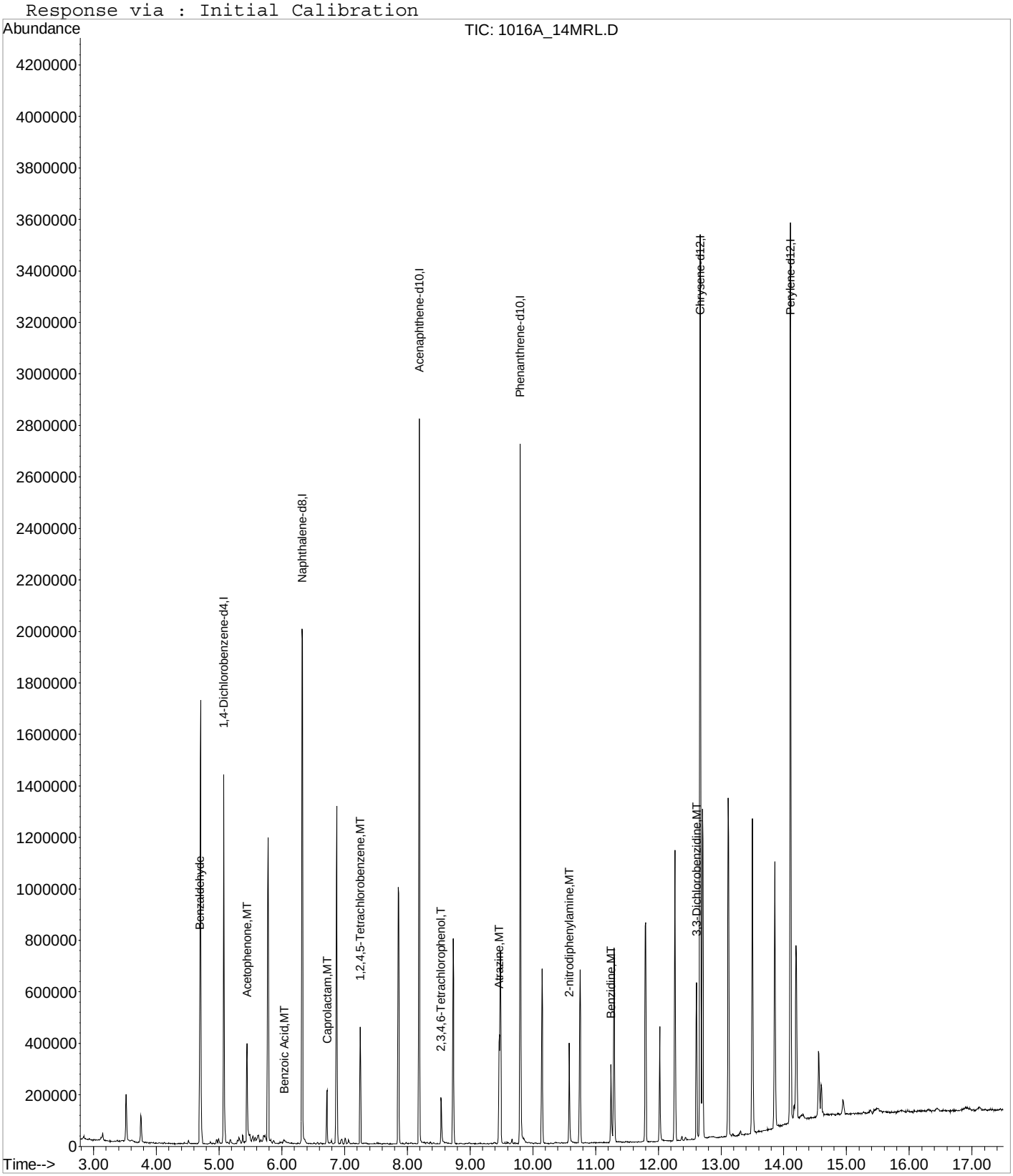
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	74238	2049.4761699 ppb		98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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

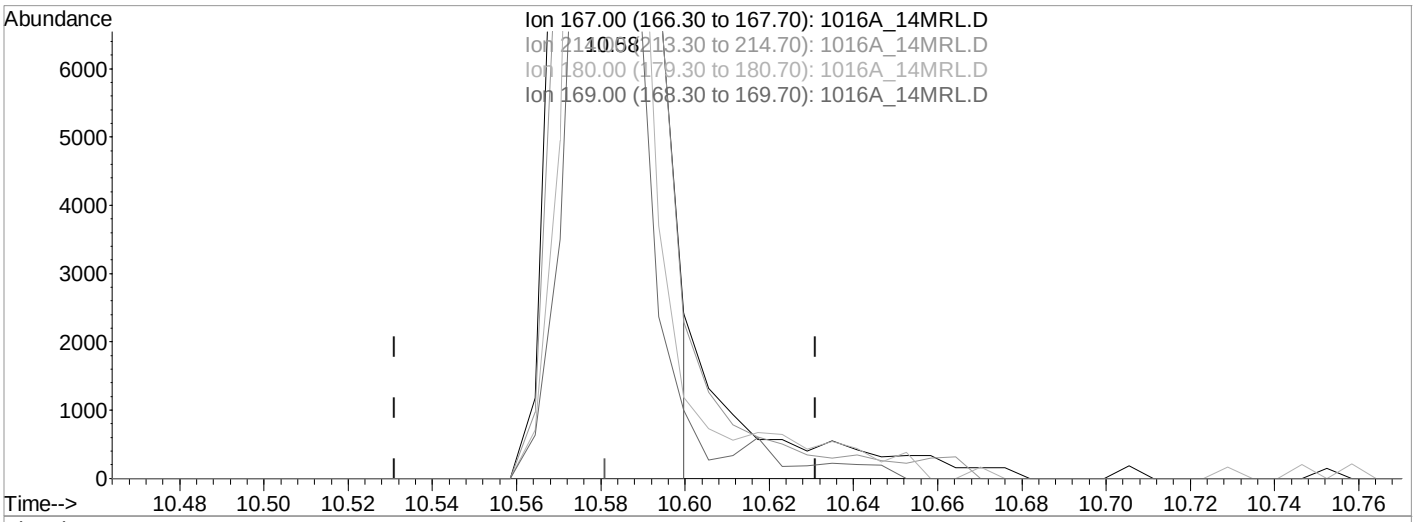
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

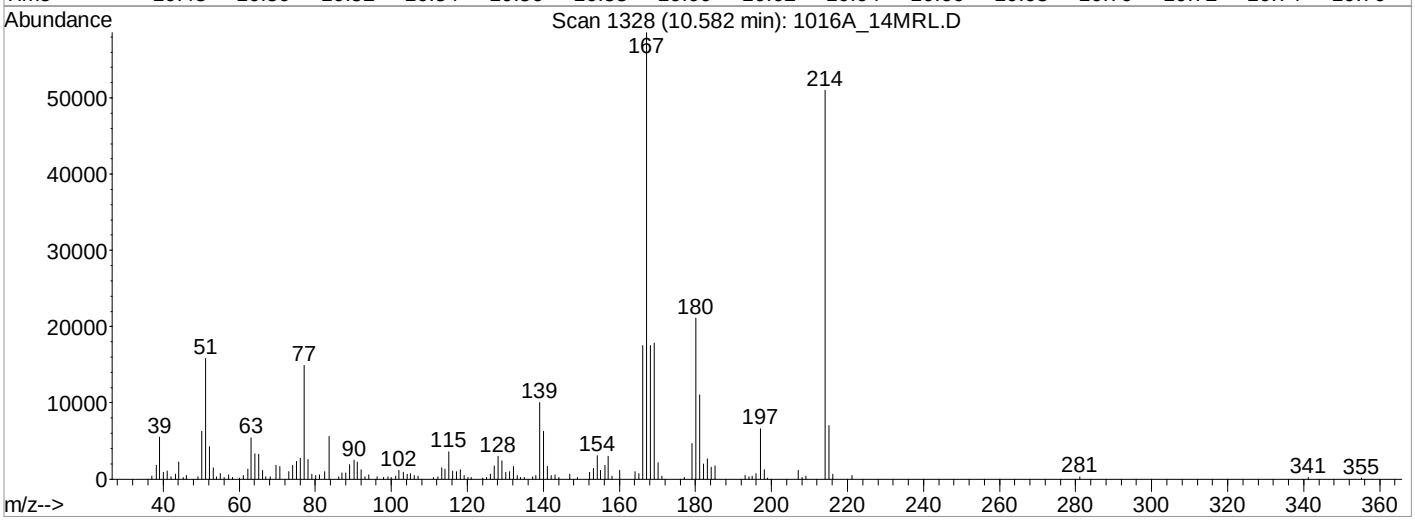


Quantitation Report (Qedit)

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

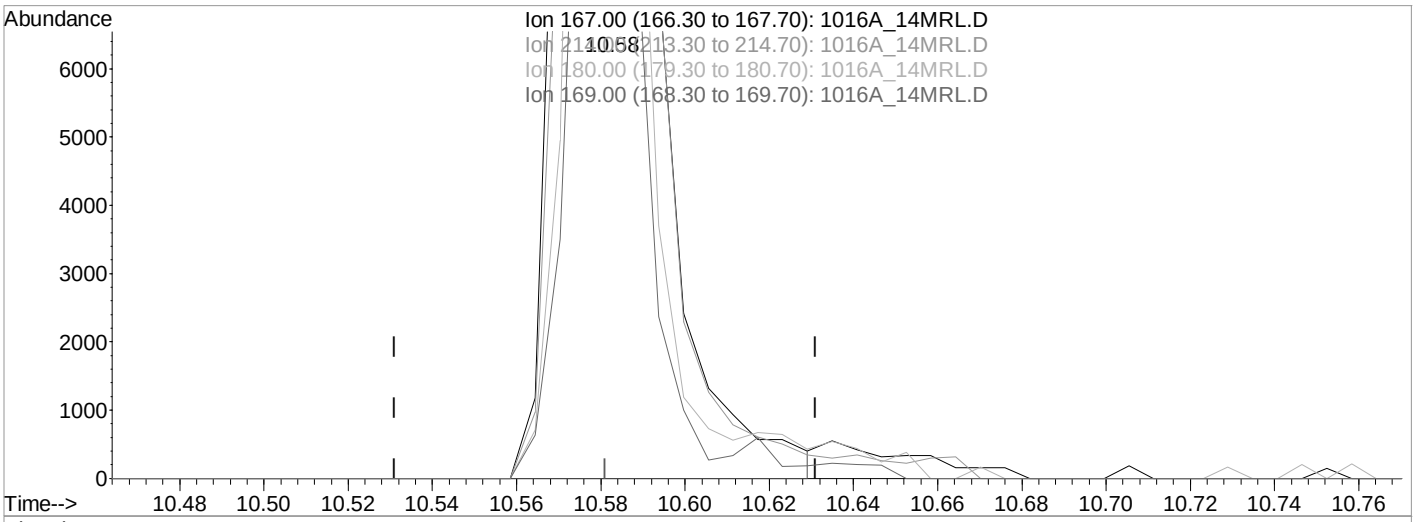
response 53788

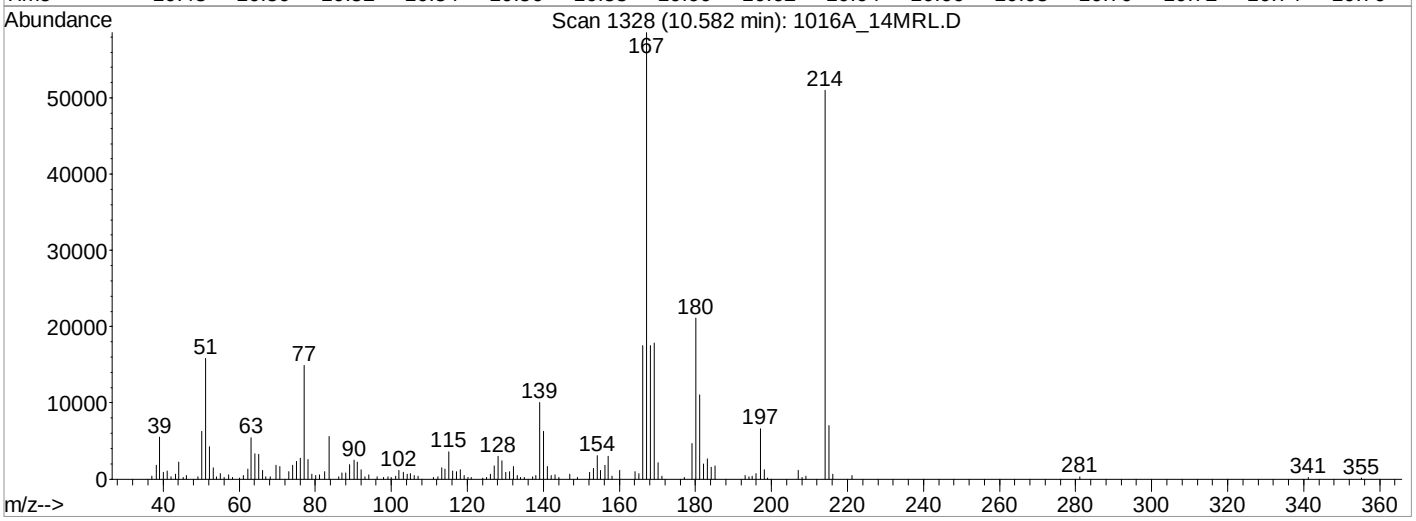
Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.08#
180.00	0.00	39.61#
169.00	0.00	30.25#

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

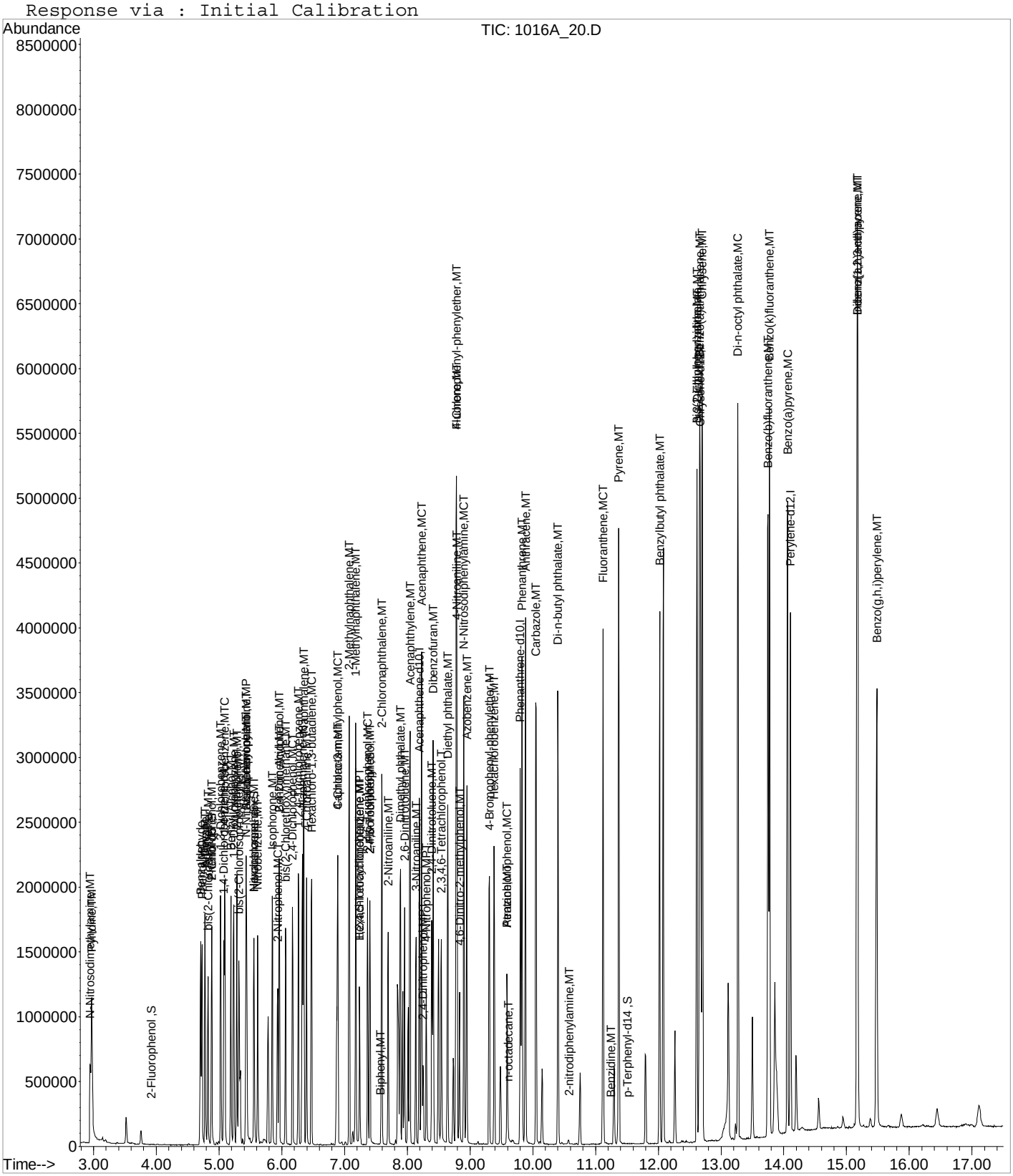
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	67	1.7892354 ppb	#	1
41)	Hexachlorocyclopentadiene	7.24	237	177766	8260.4322107 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	241784	9771.5956341 ppb		95
43)	2,4,5-Trichlorophenol	7.40	196	264138	9553.3858255 ppb		96
45)	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

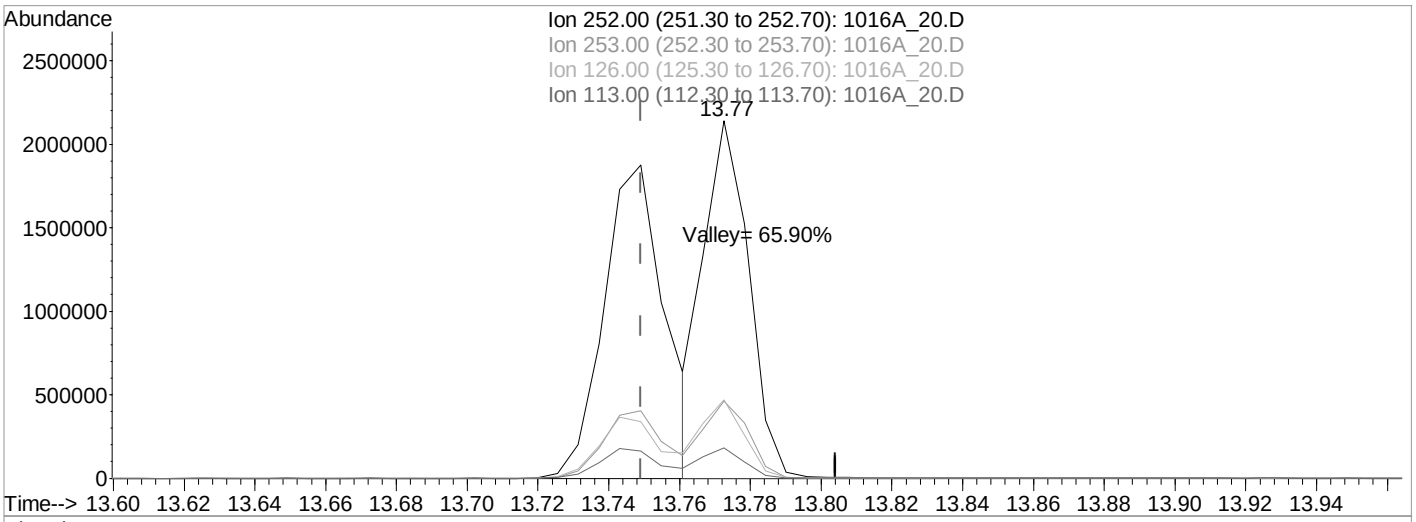
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

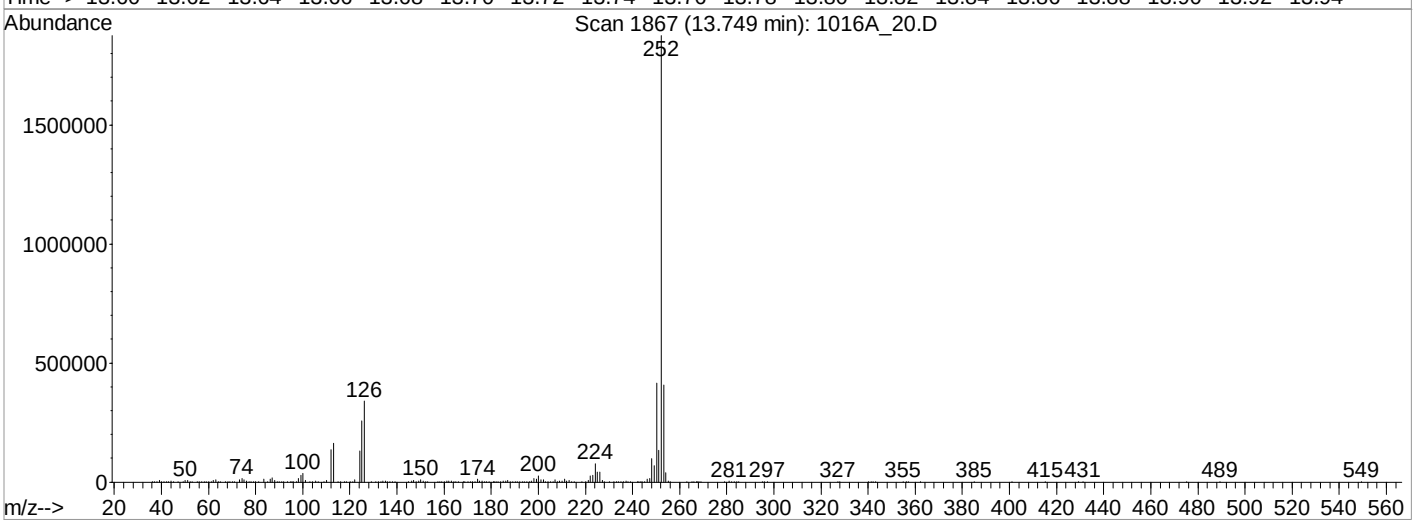


Quantitation Report (Qedit)

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

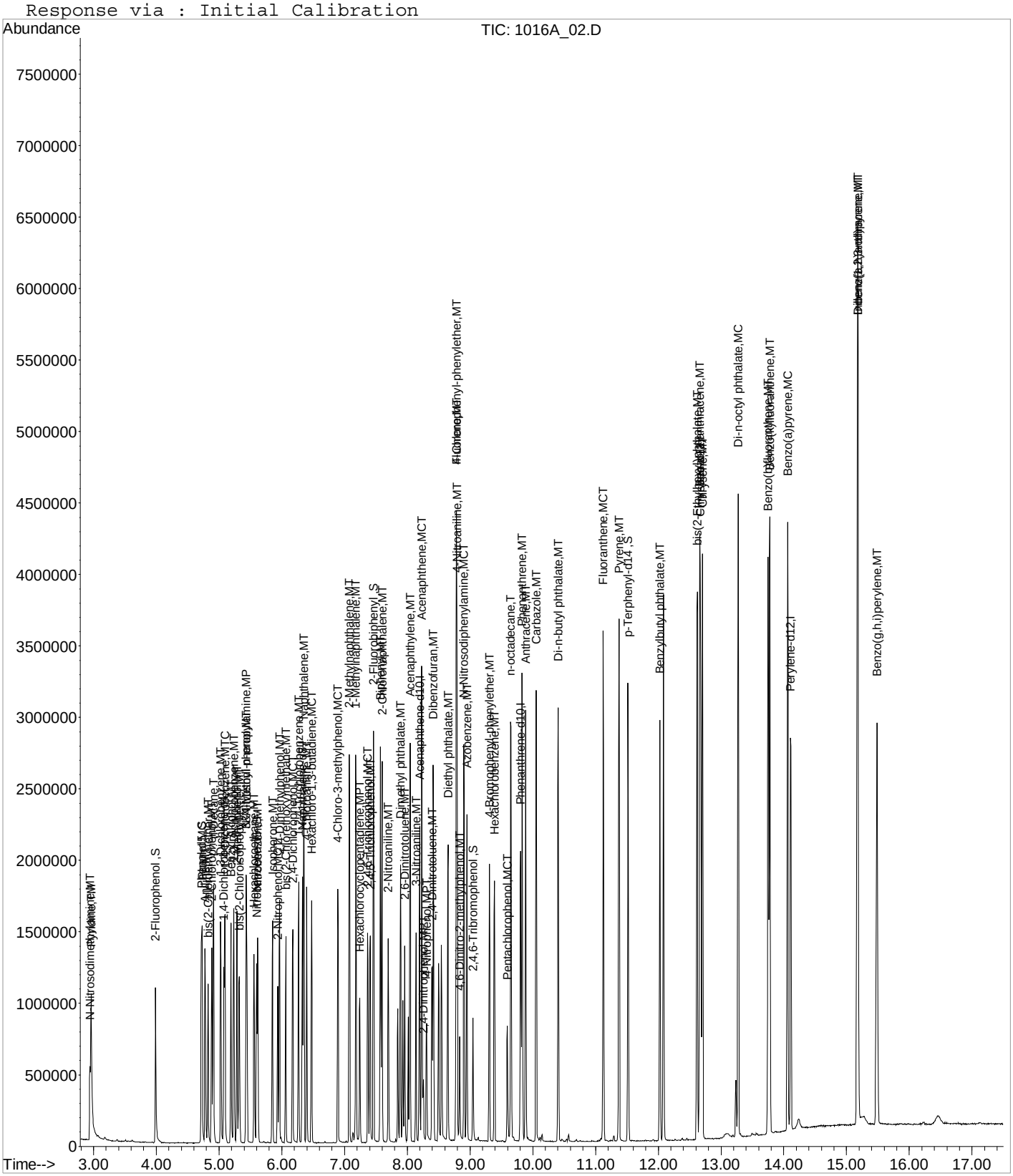
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d	
41)	Hexachlorocyclopentadiene	7.24	237	160562	10000.0000000 ppb	100
42)	2,4,6-Trichlorophenol	7.37	196	198040	10000.0000000 ppb	100
43)	2,4,5-Trichlorophenol	7.41	196	222005	10000.0000000 ppb	100
45)	Biphenyl	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

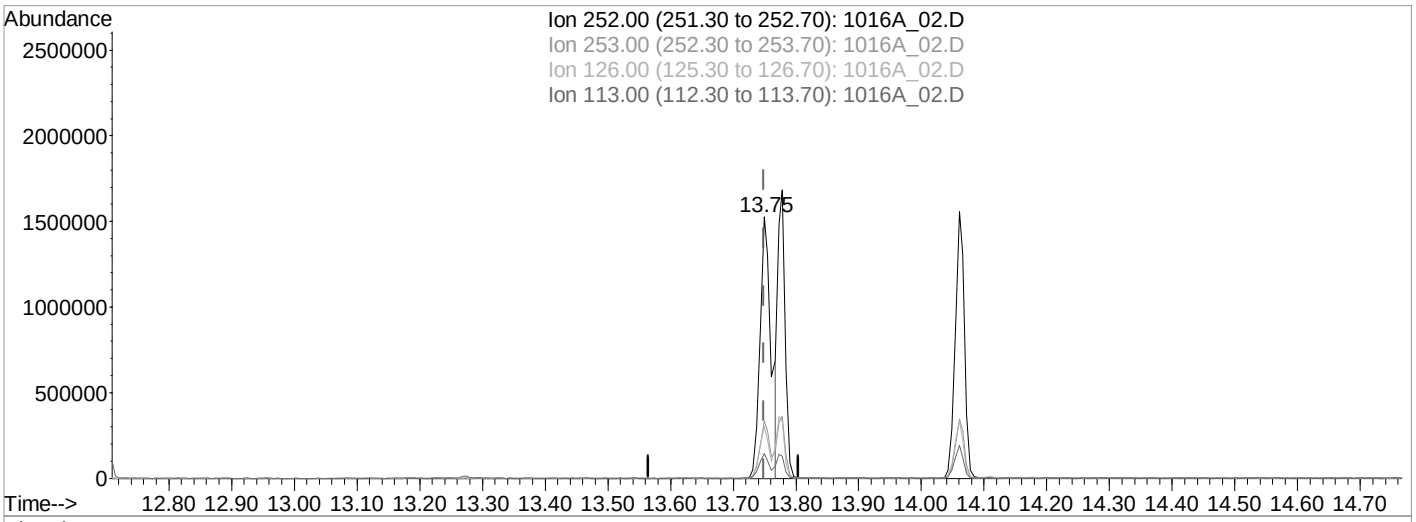
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Initial Calibration

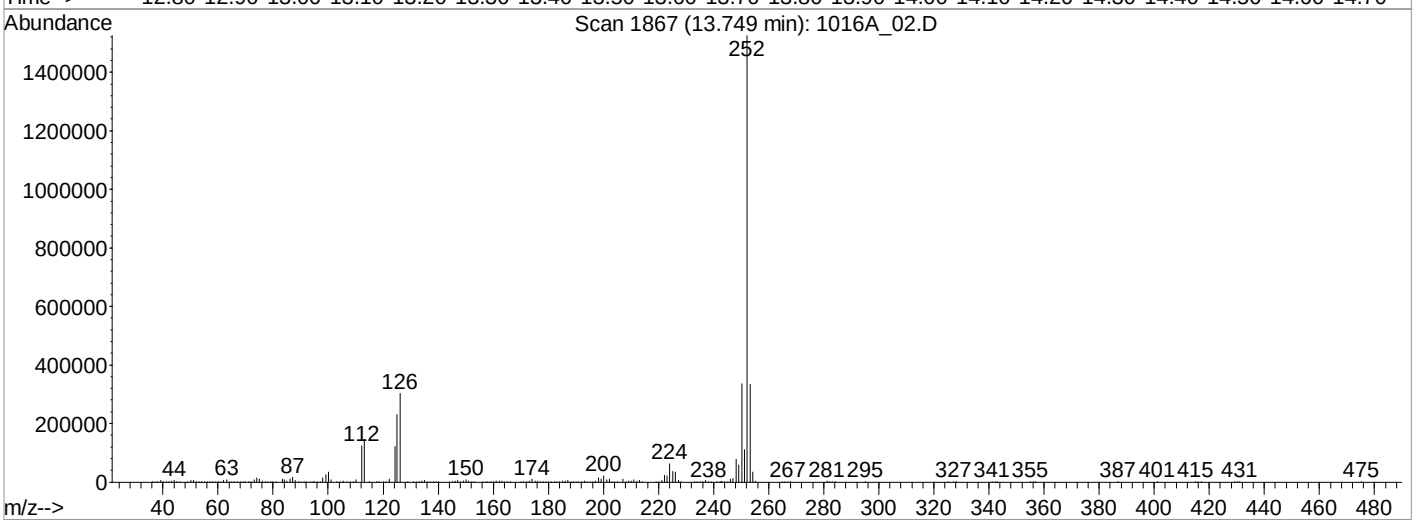


Quantitation Report (Qedit)

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

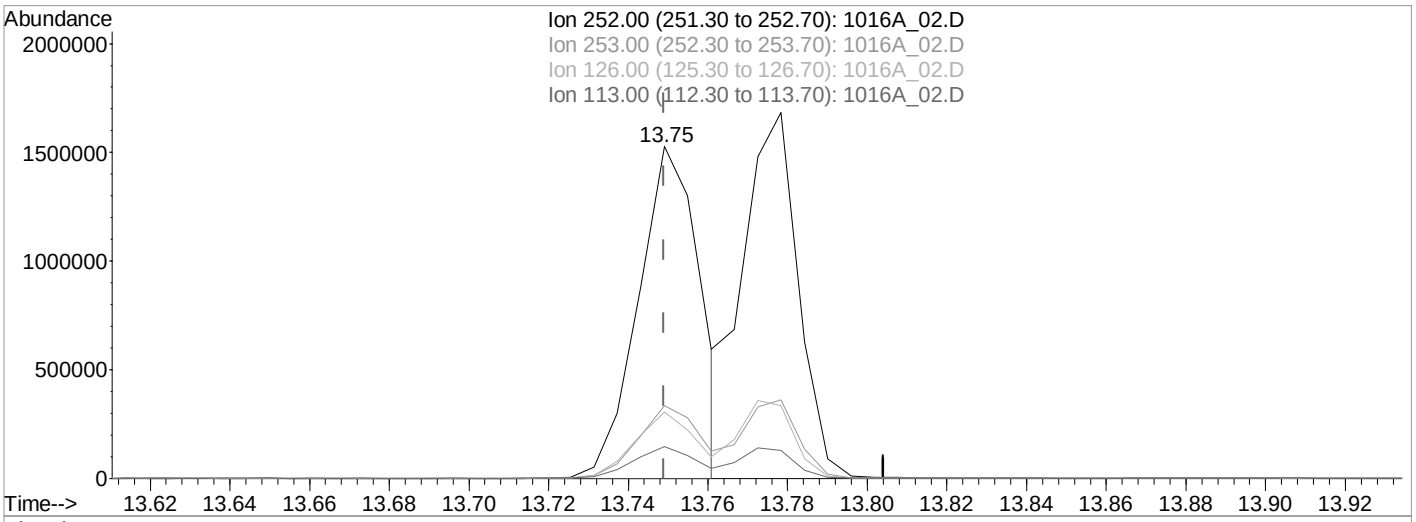
response 1883276

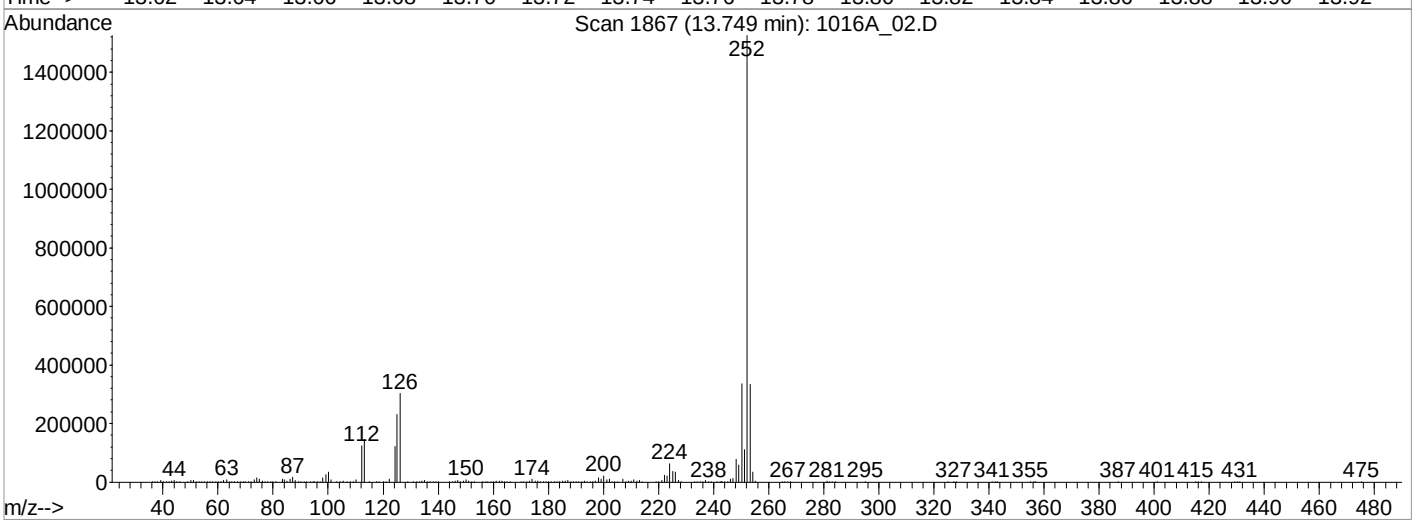
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.61
126.00	19.90	18.14
113.00	9.50	9.27

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

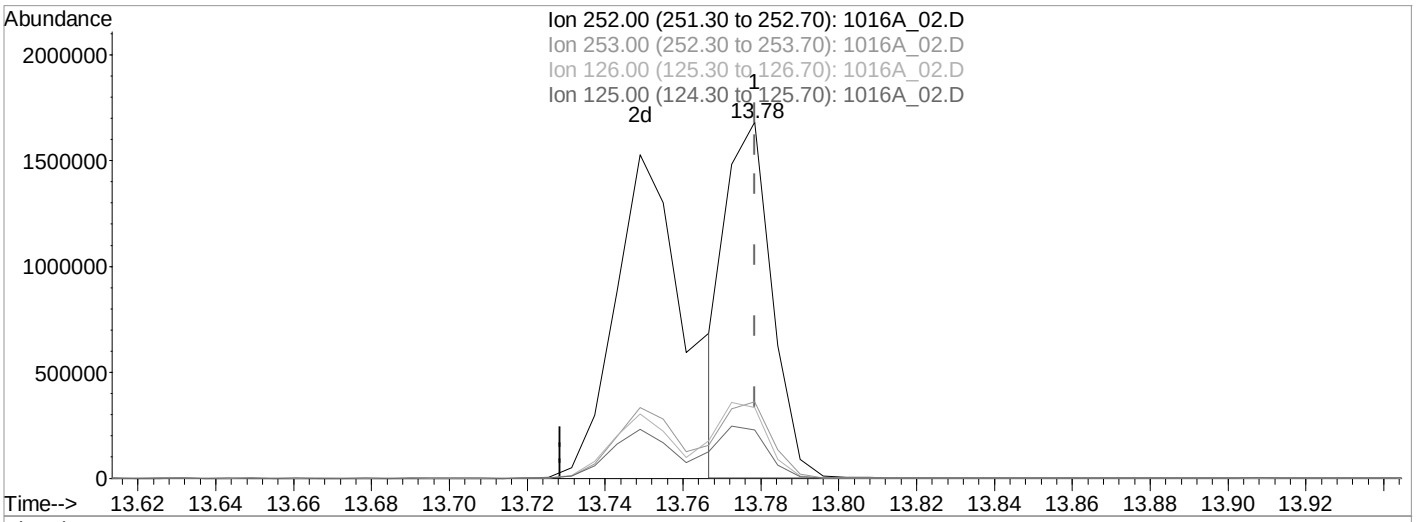
response 1641995

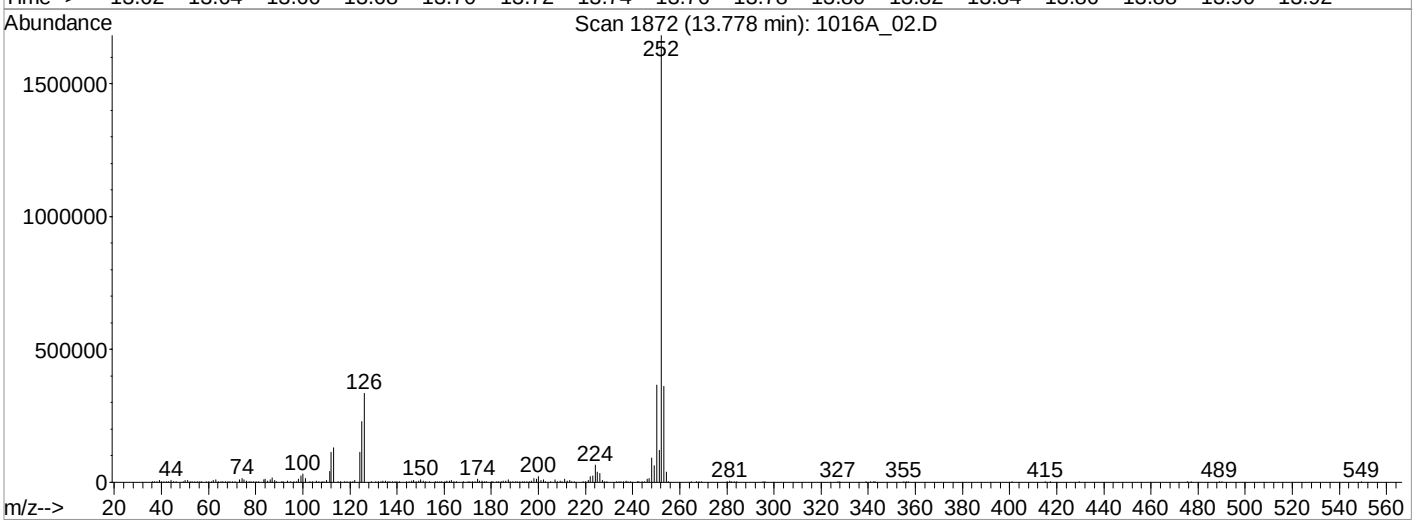
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.82
126.00	19.90	19.91
113.00	9.50	9.52

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

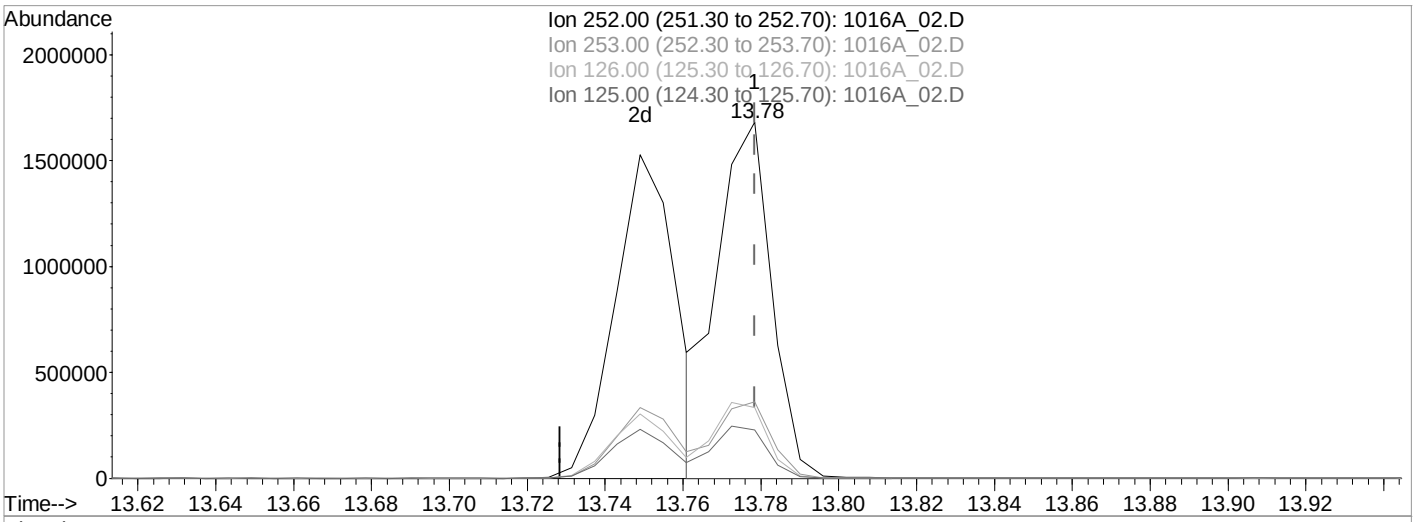
response 1378944

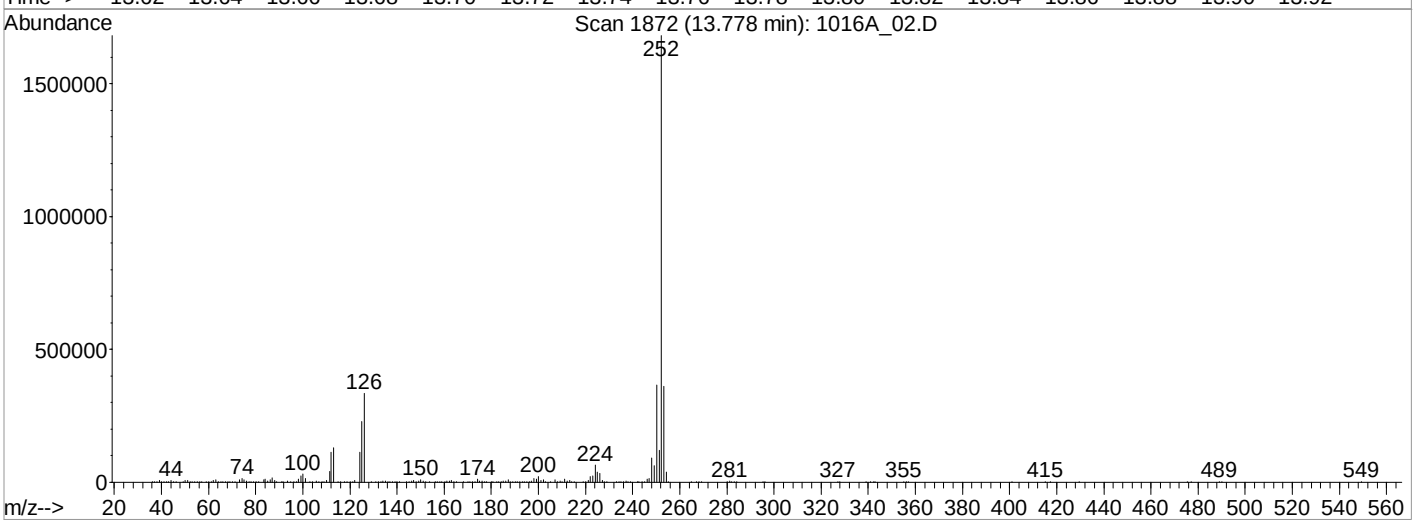
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.44
126.00	19.90	19.84
125.00	13.60	13.54

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

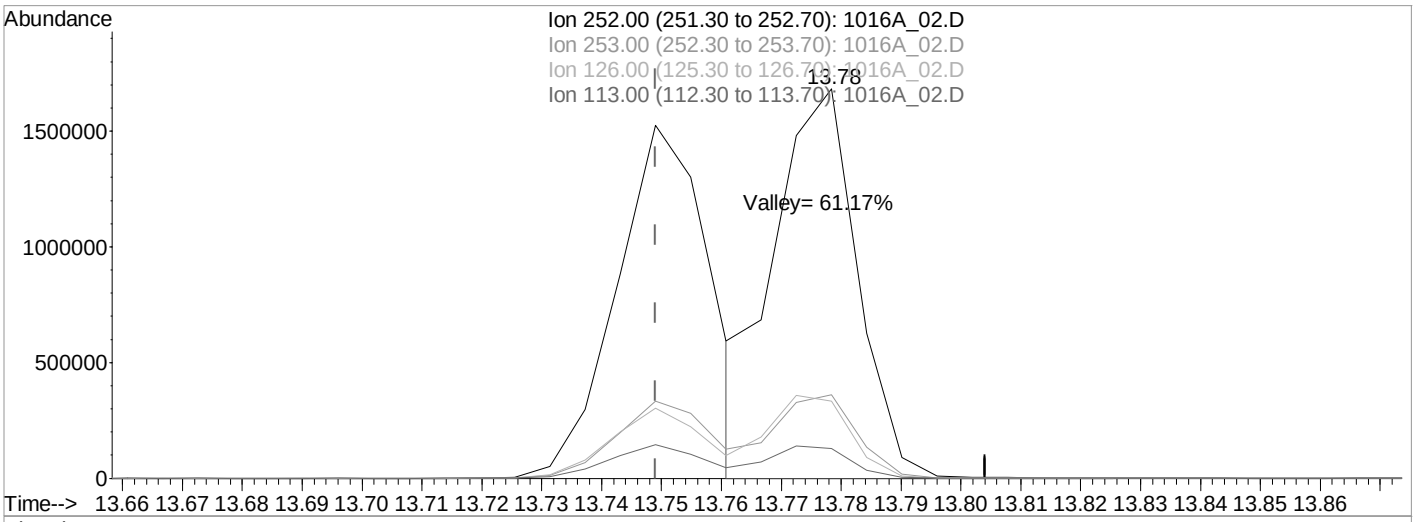
response 1617615

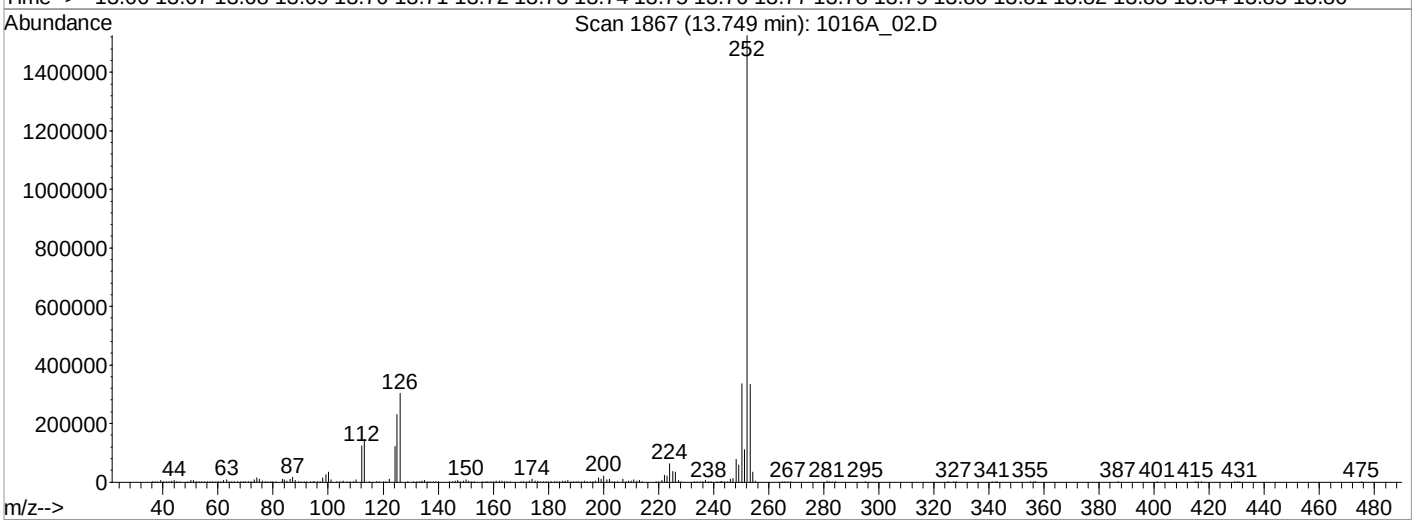
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.46
126.00	19.90	19.85
125.00	13.60	13.58

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

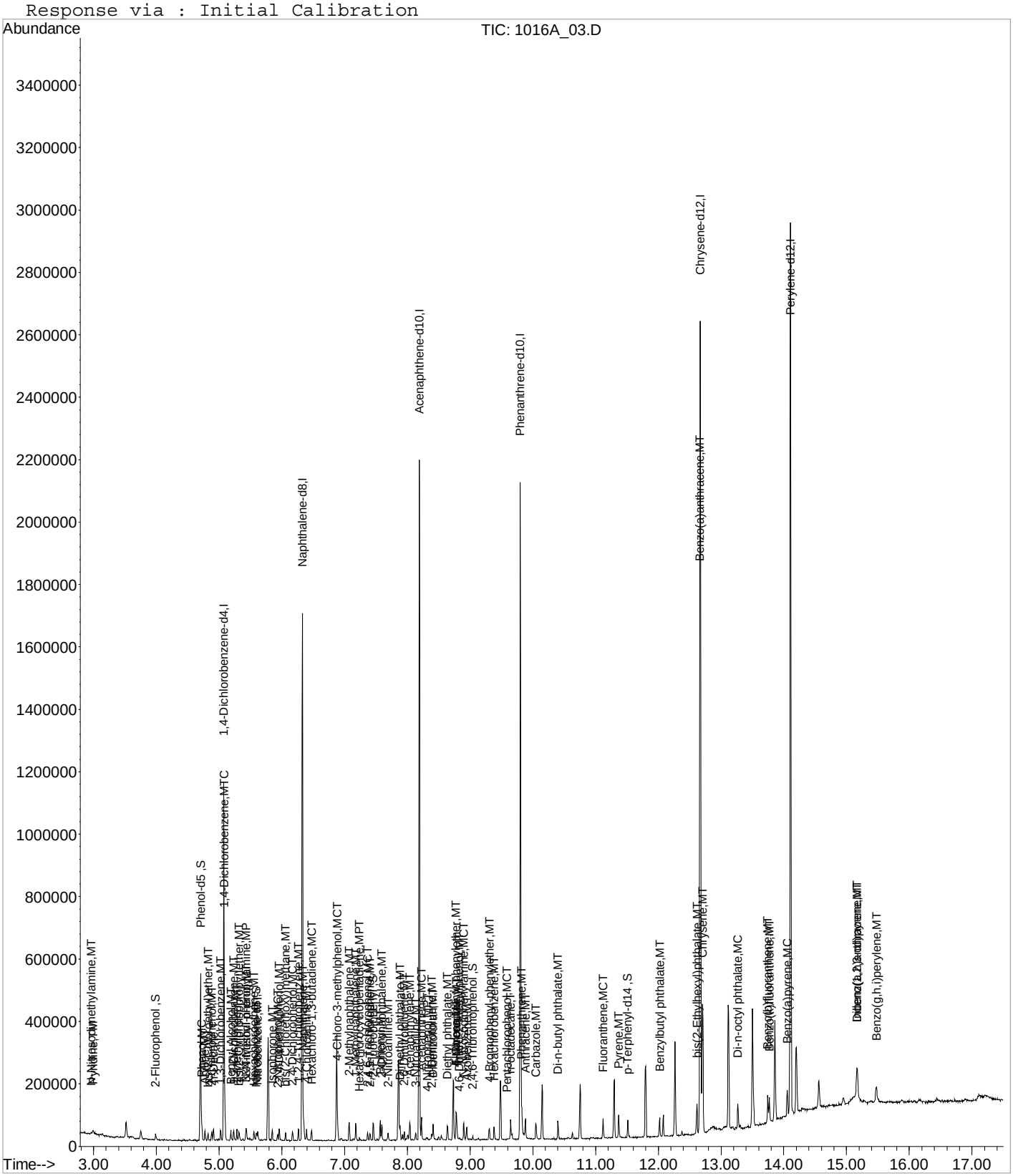
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	1005	63.5956163 ppb	#	87
42)	2,4,6-Trichlorophenol	7.37	196	3042	156.0666757 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	3433	157.1140180 ppb		91
45)	Biphenyl	7.57	154	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

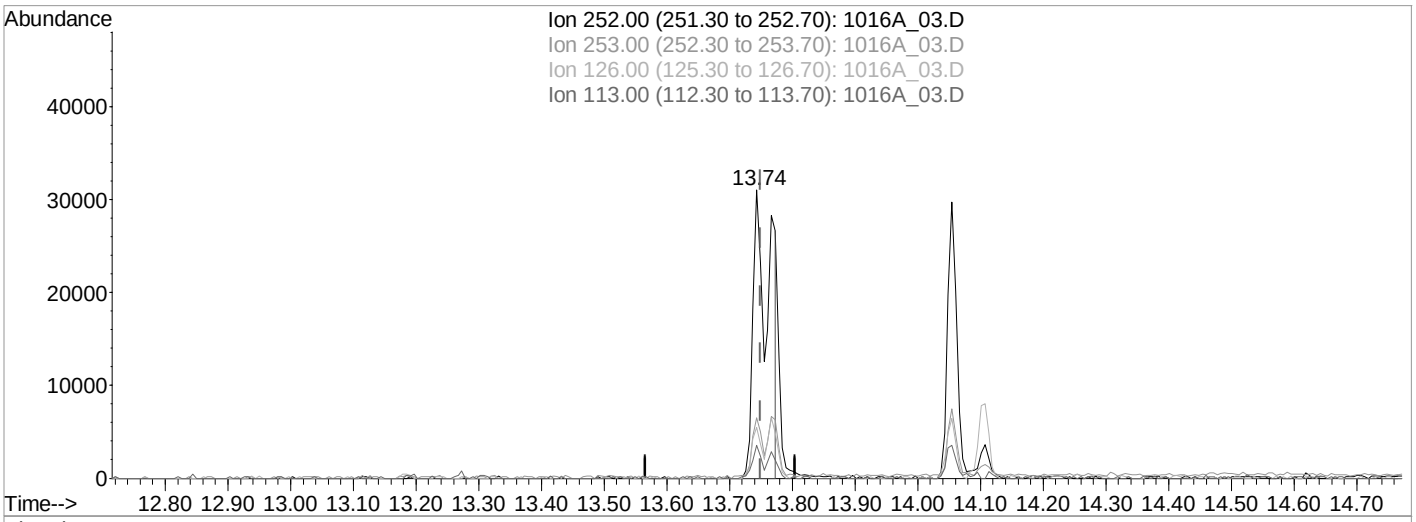
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Initial Calibration

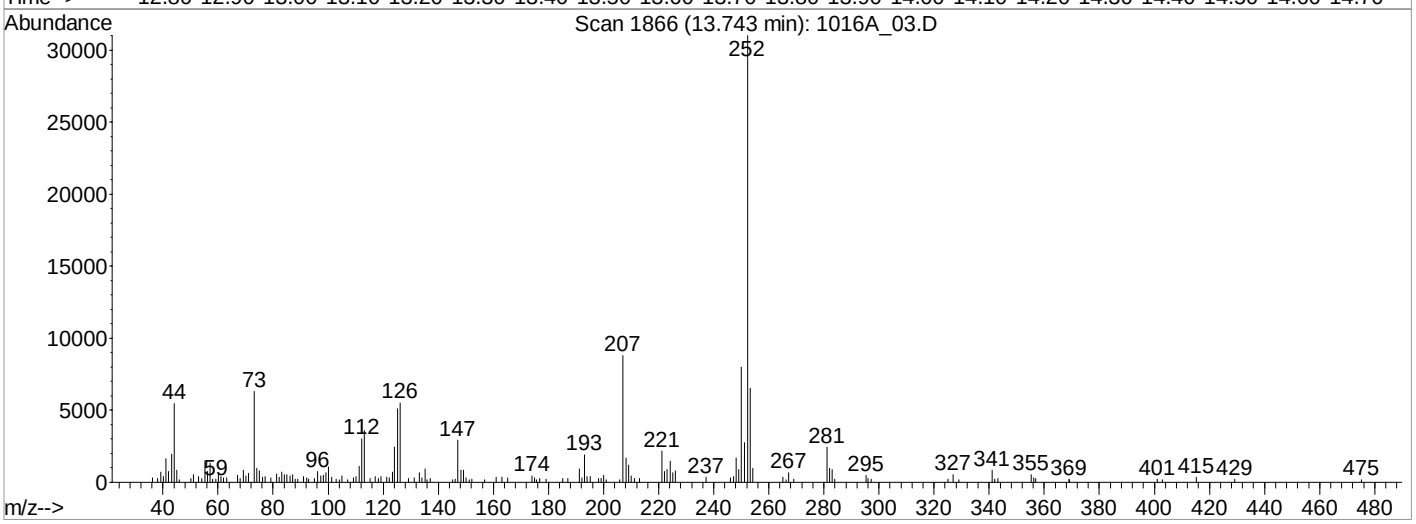


Quantitation Report (Qedit)

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

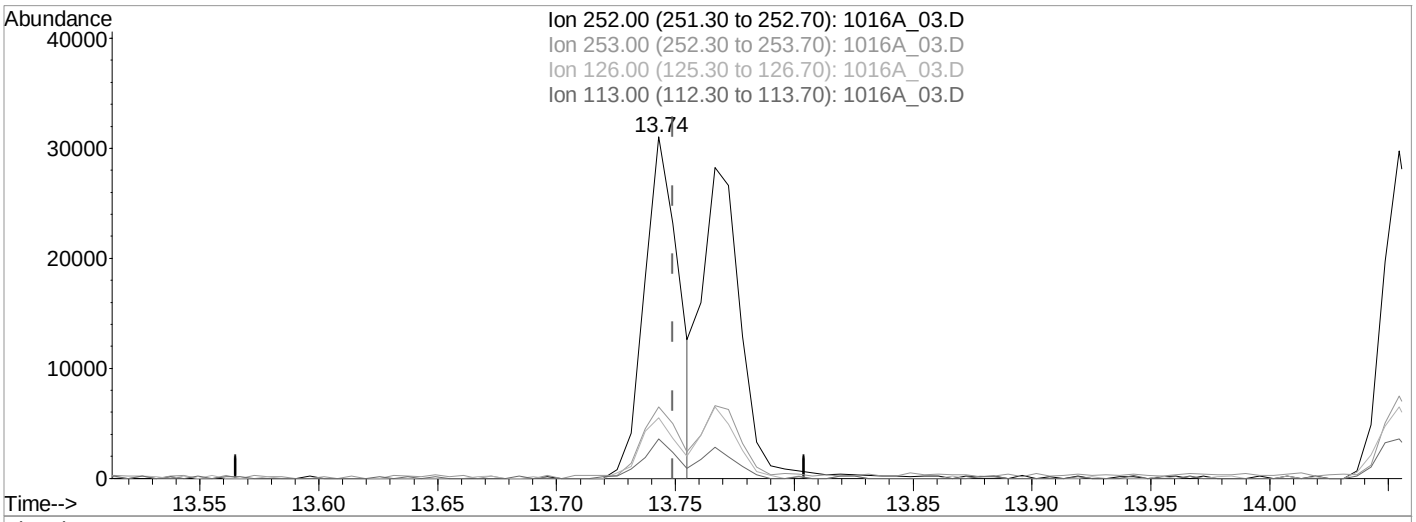
response 56695

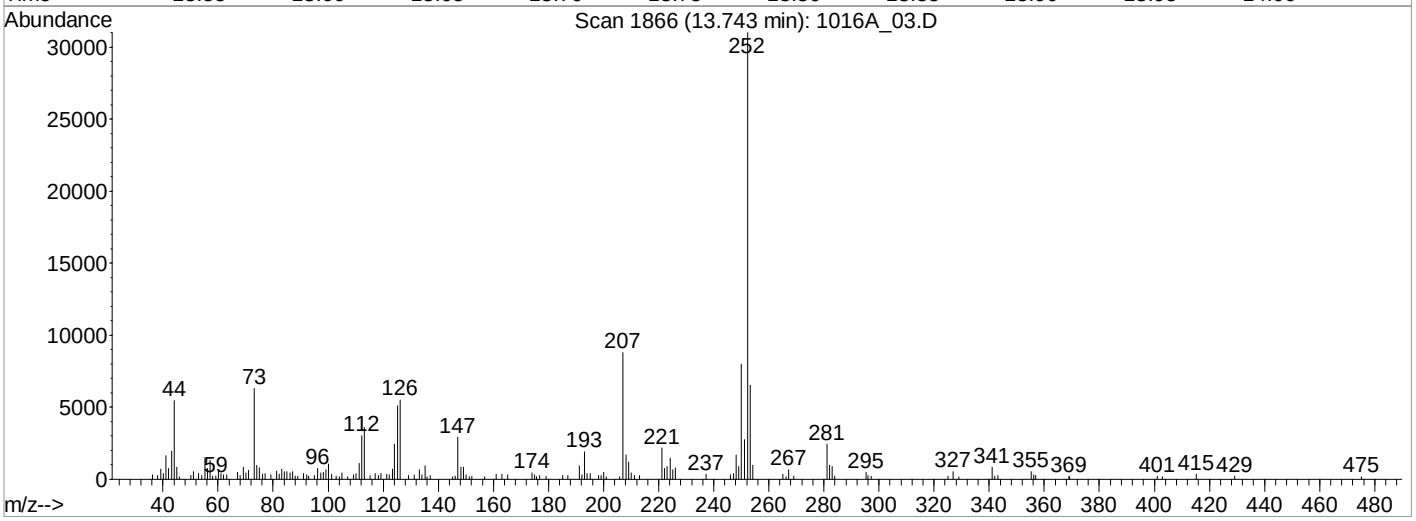
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	18.22
126.00	19.90	17.22
113.00	9.50	14.73

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

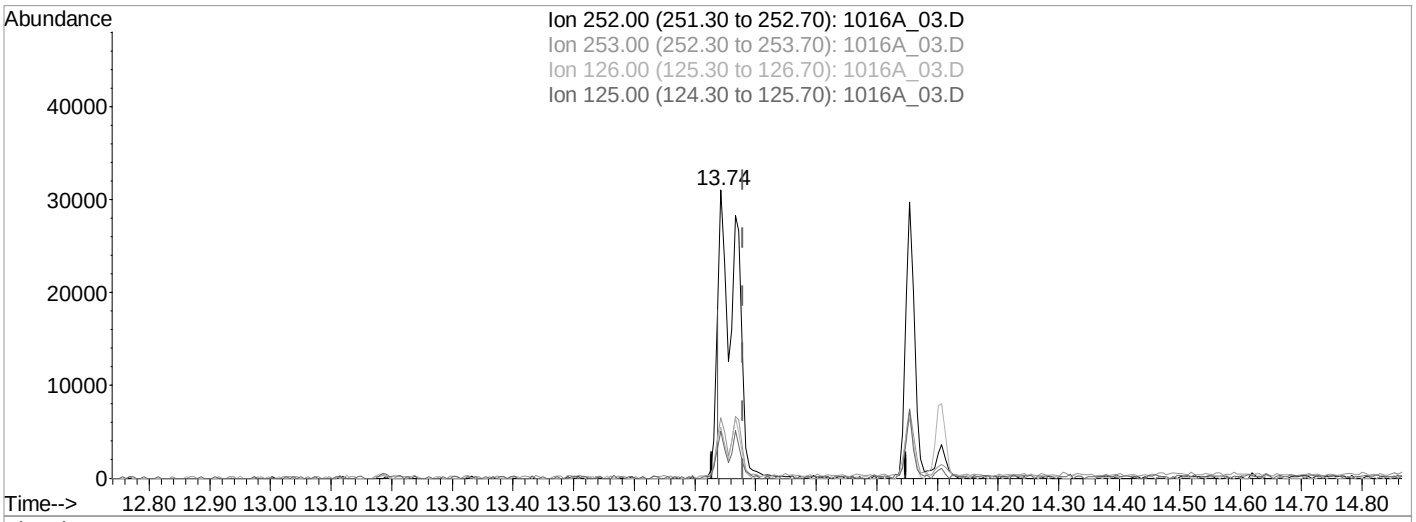
response 31715

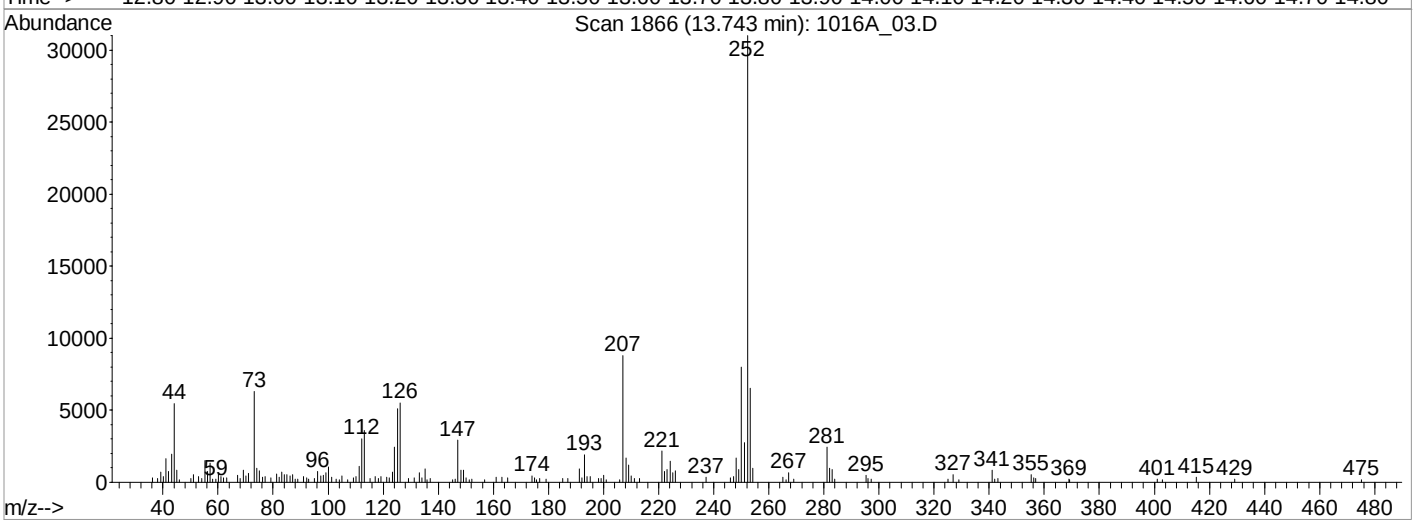
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.96
126.00	19.90	17.75
113.00	9.50	11.55

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

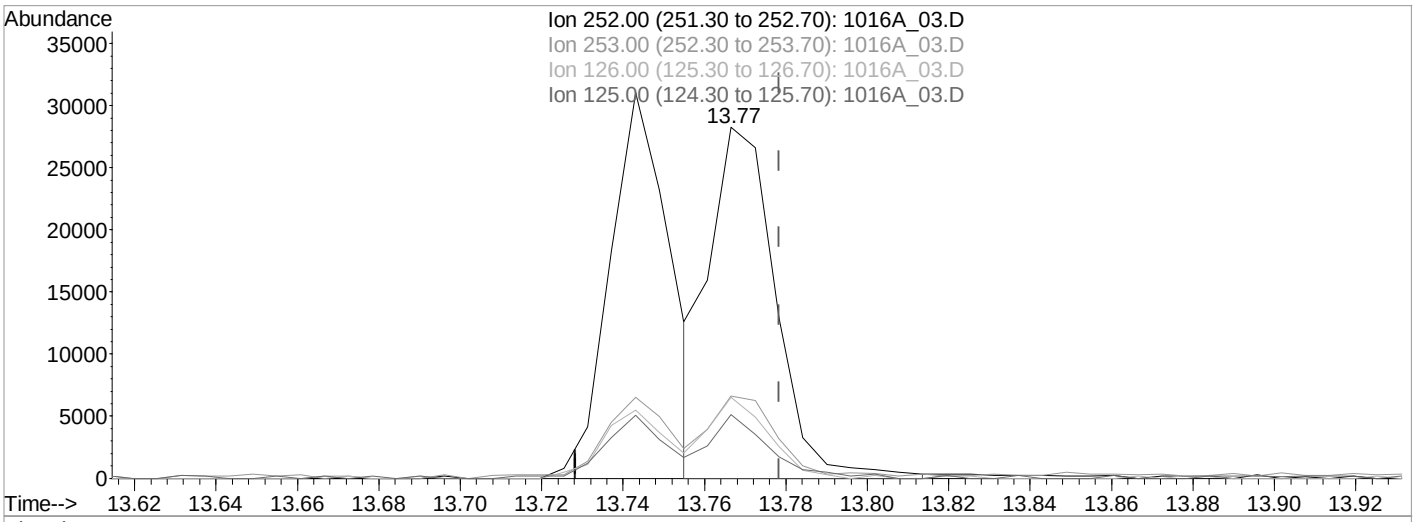
response 56137

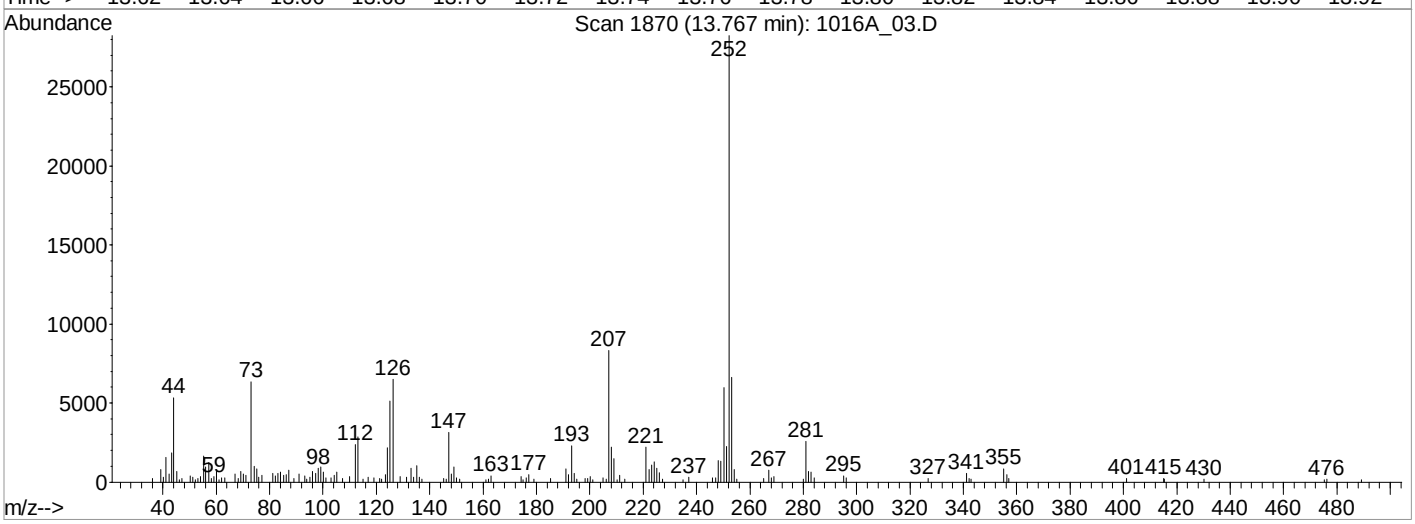
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	19.97
126.00	19.90	17.08
125.00	13.60	16.42

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

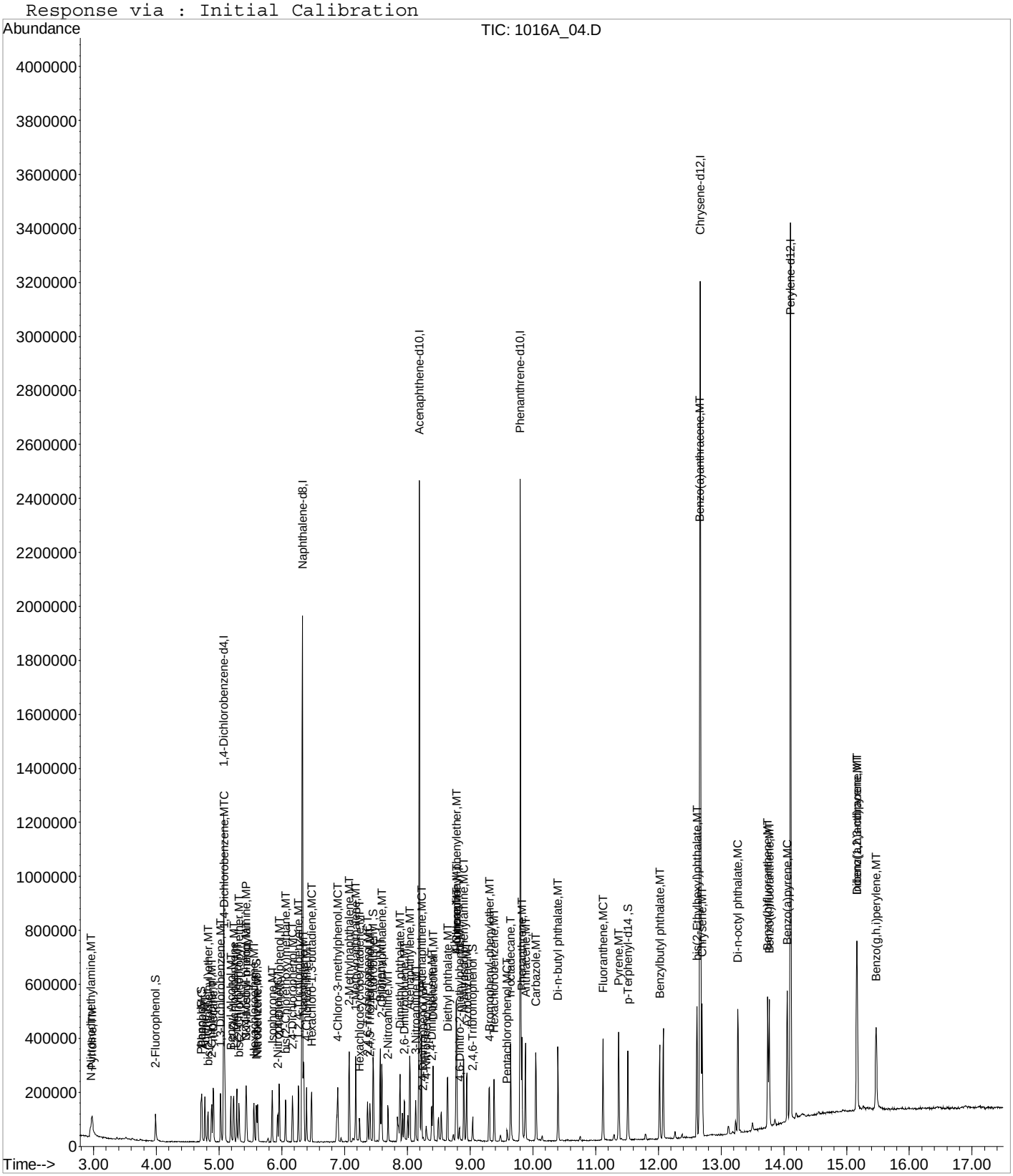
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	11678	995.8863903 ppb		92
42)	2,4,6-Trichlorophenol	7.37	196	19059	975.5244114 ppb		92
43)	2,4,5-Trichlorophenol	7.40	196	22374	1018.5826139 ppb		93
45)	Biphenyl	7.57	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



1016A_04.D S804J16N.M Fri Oct 17 08:43:24 2014 1372 of 1547 Page 3

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

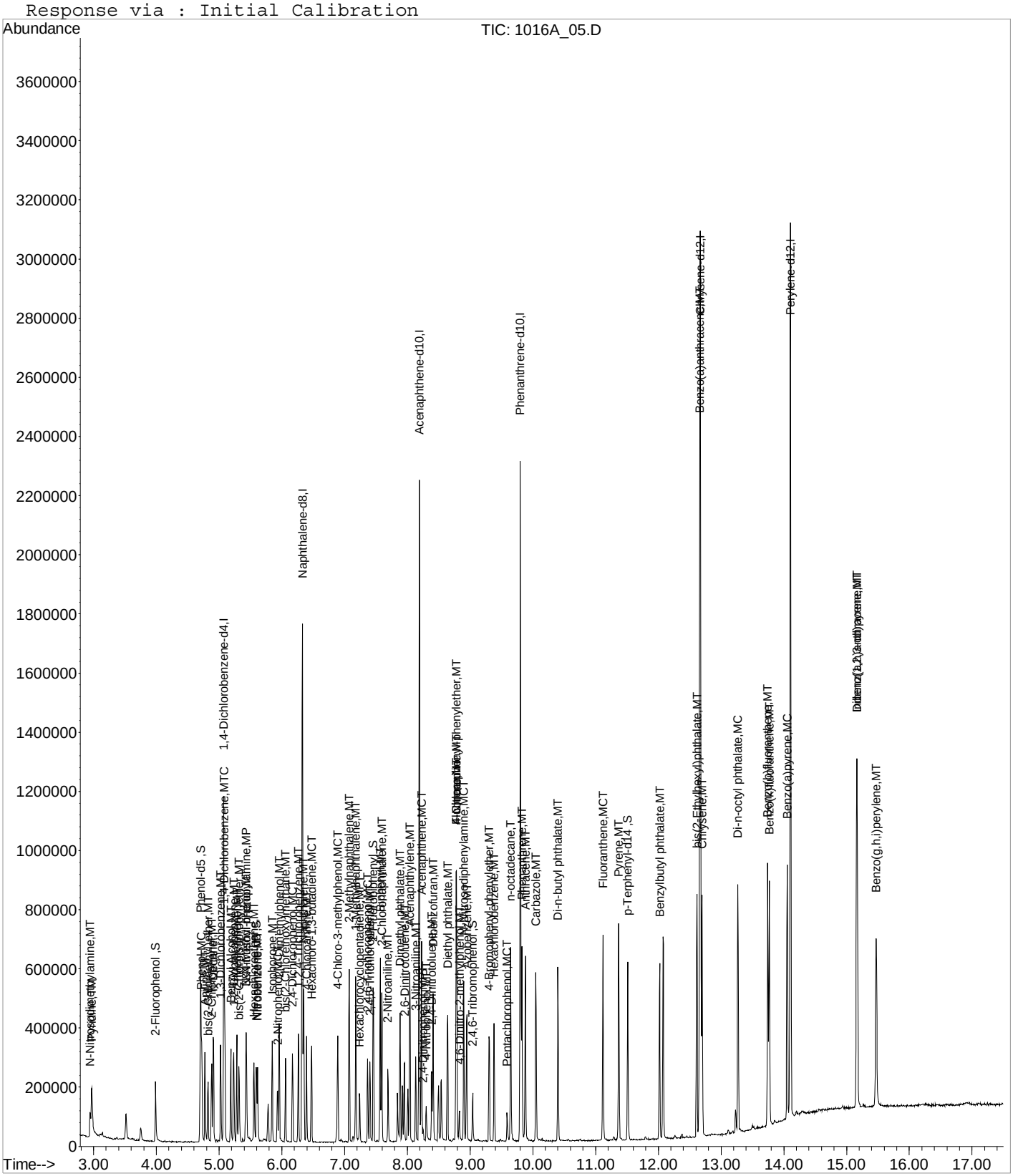
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	25022	2364.7480909 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	34267	1943.7287276 ppb		93
43)	2,4,5-Trichlorophenol	7.40	196	41893	2113.5650765 ppb		95
45)	Biphenyl	7.57	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

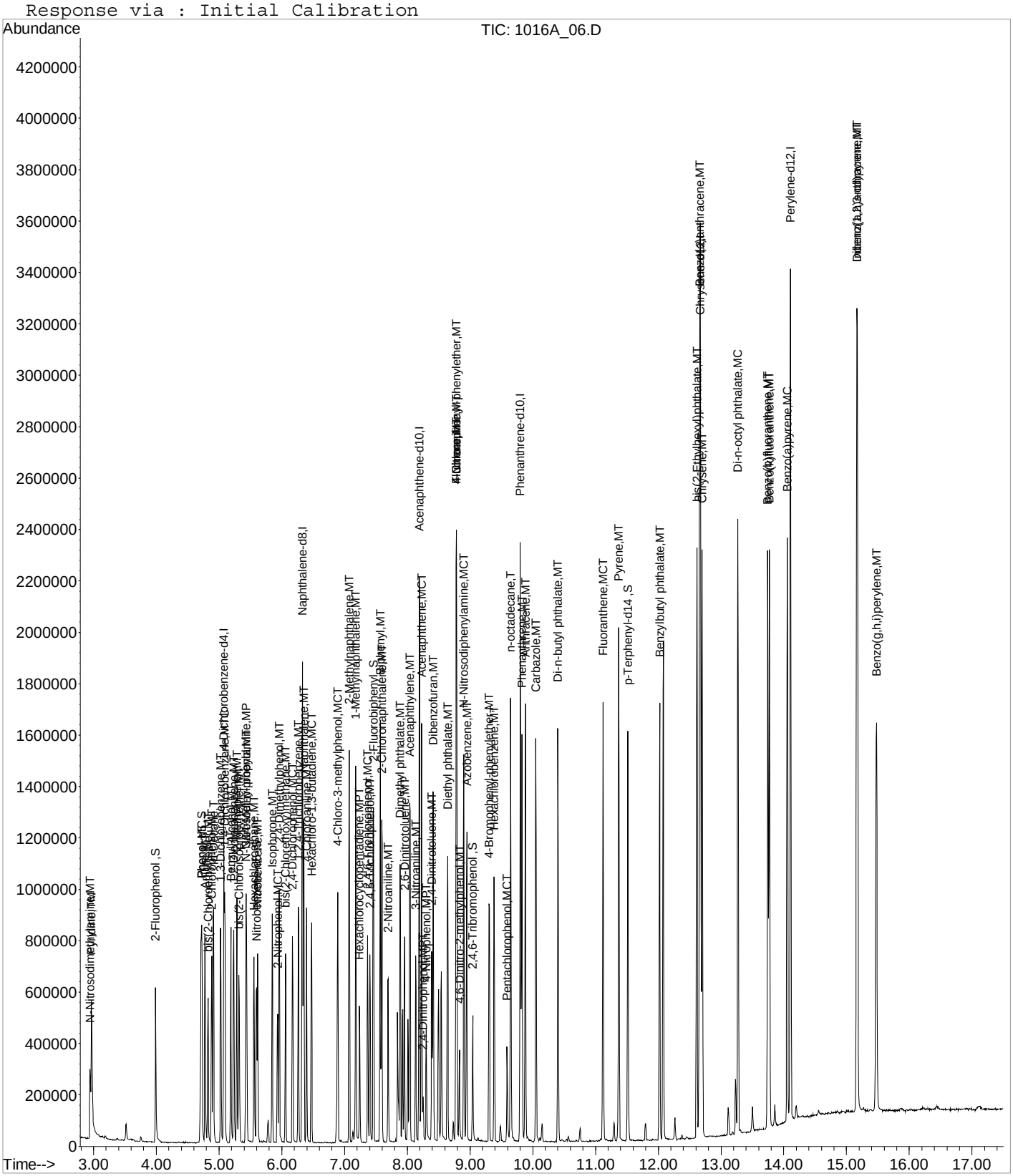
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	78774	7121.7760577 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	97155	5271.9013596 ppb		97
43)	2,4,5-Trichlorophenol	7.40	196	110897	5352.2514813 ppb		96
45)	Biphenyl	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

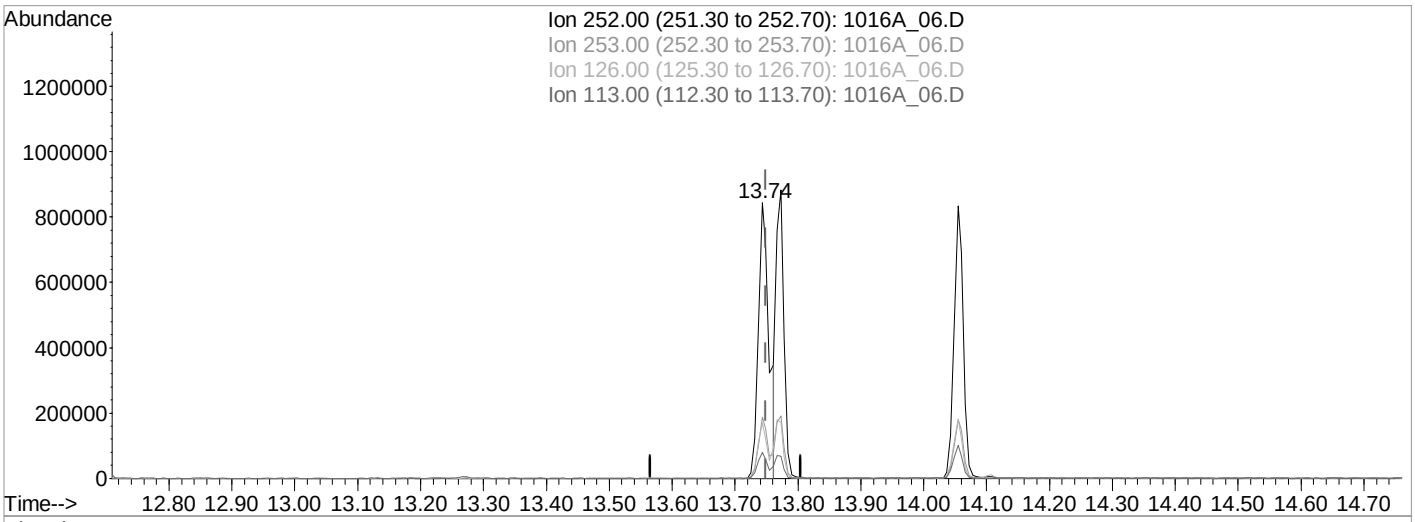
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Initial Calibration

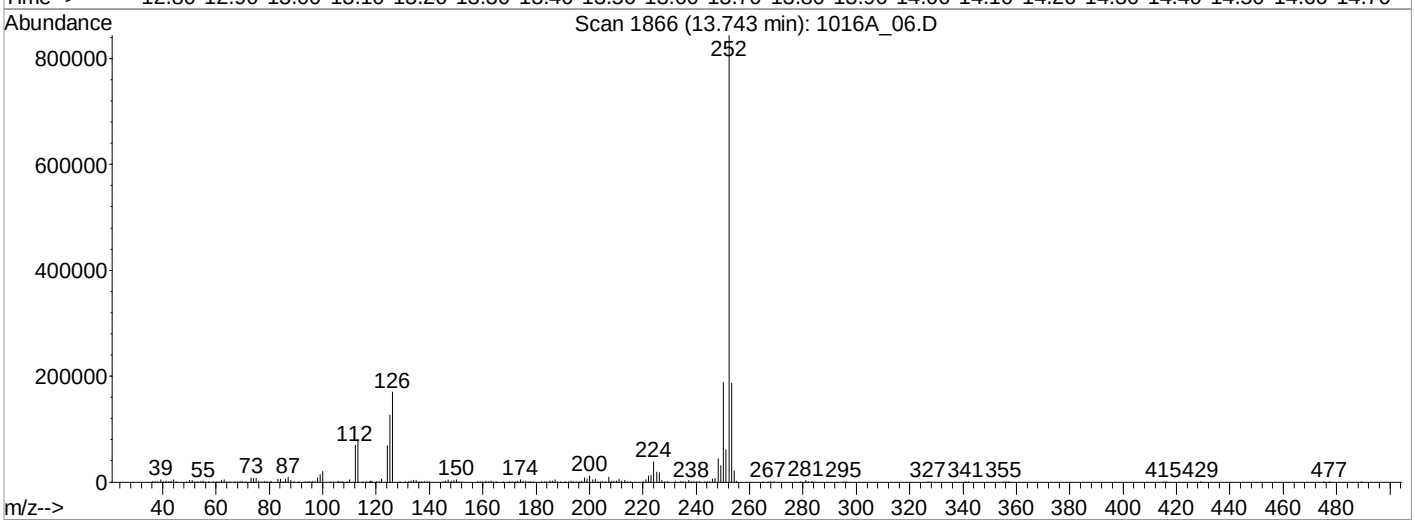


Quantitation Report (Qedit)

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

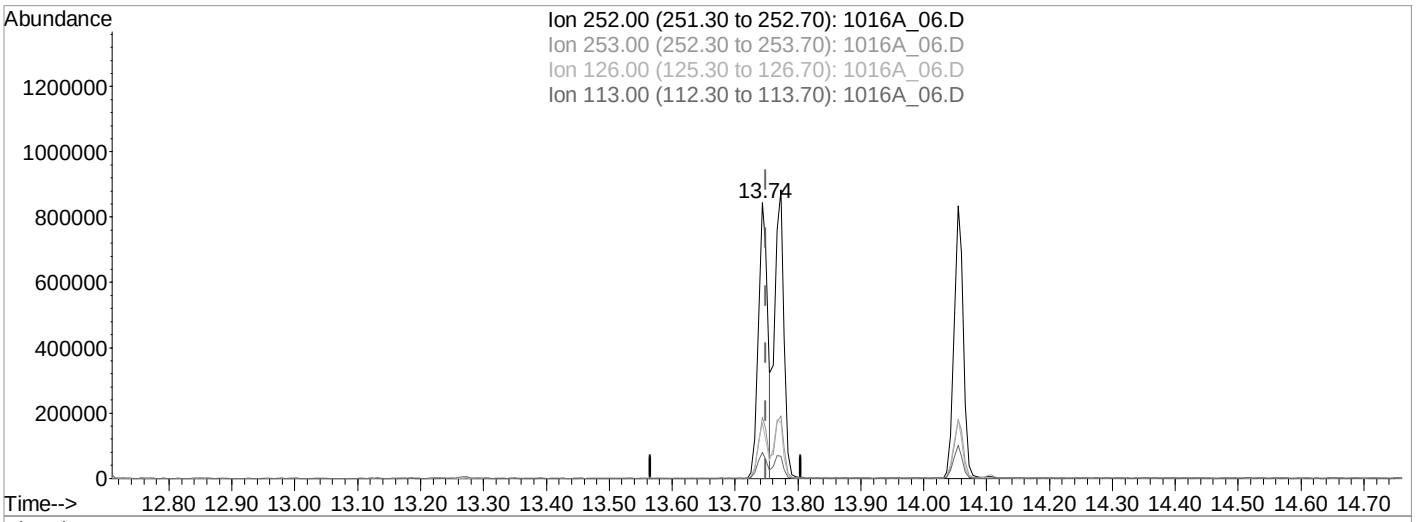
response 1000902

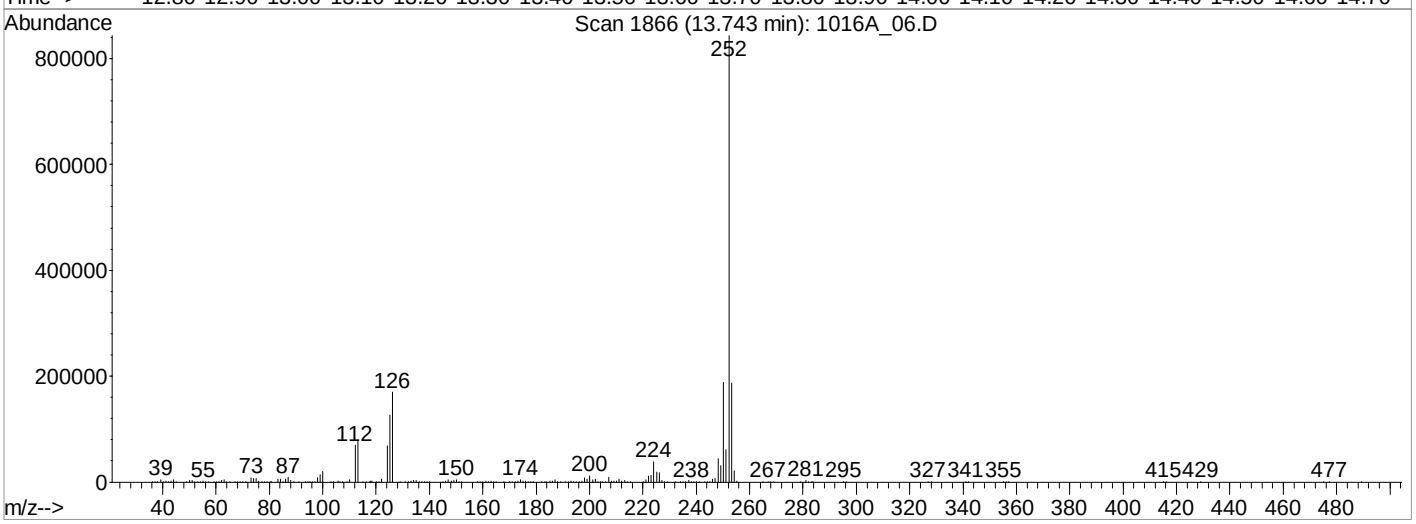
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.39
126.00	19.90	18.65
113.00	9.50	9.09

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

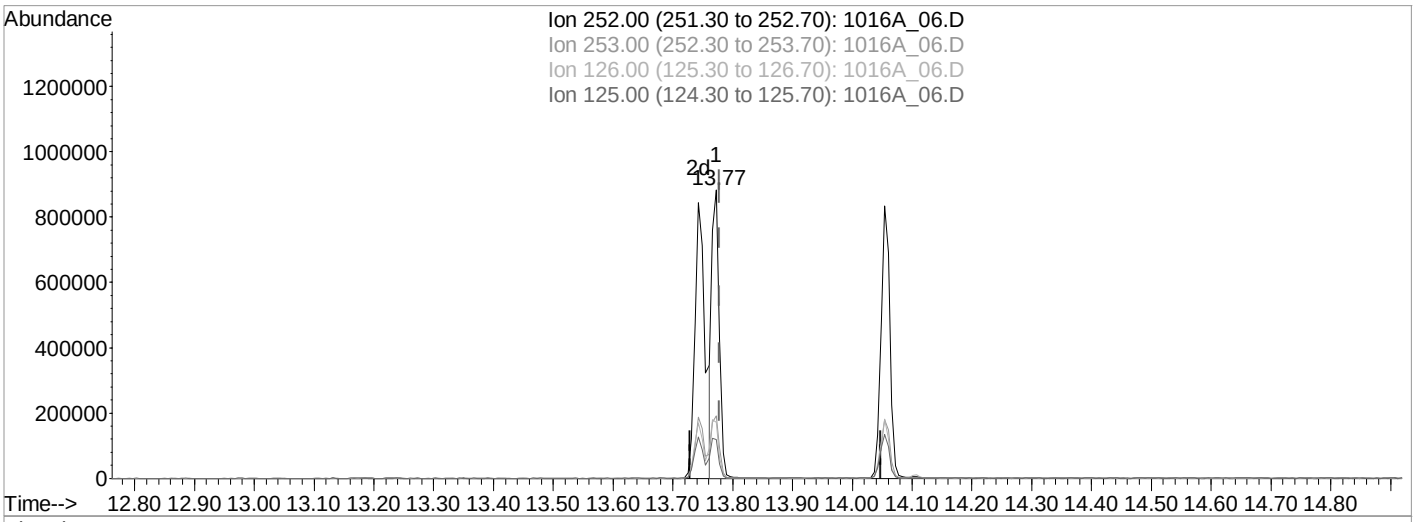
response 878404

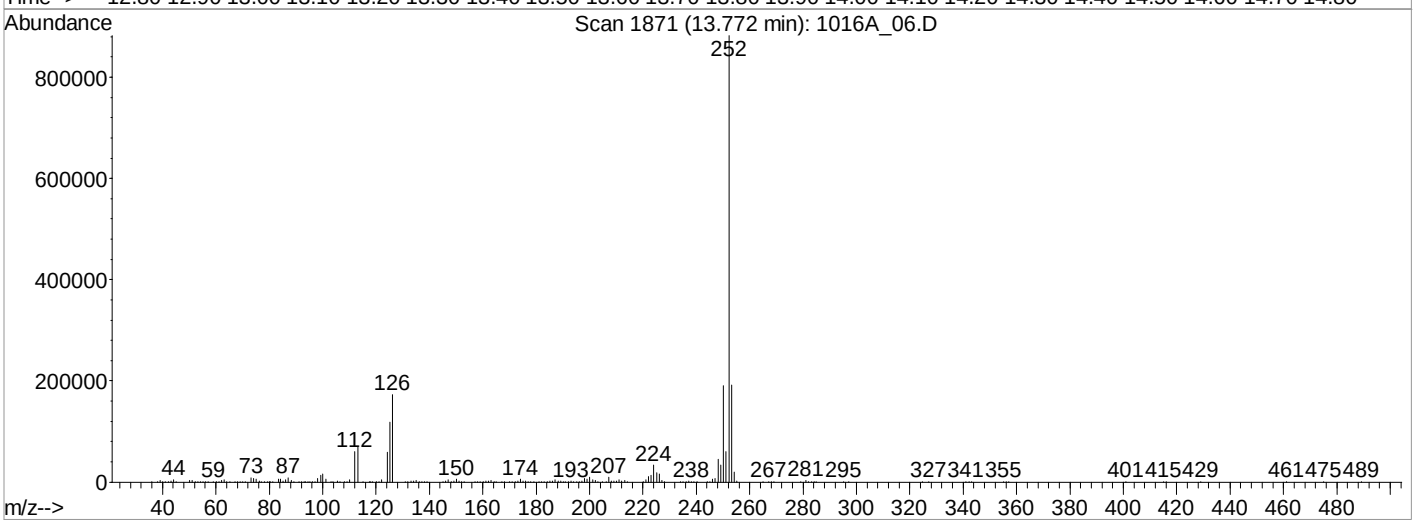
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.21
126.00	19.90	20.19
113.00	9.50	9.36

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

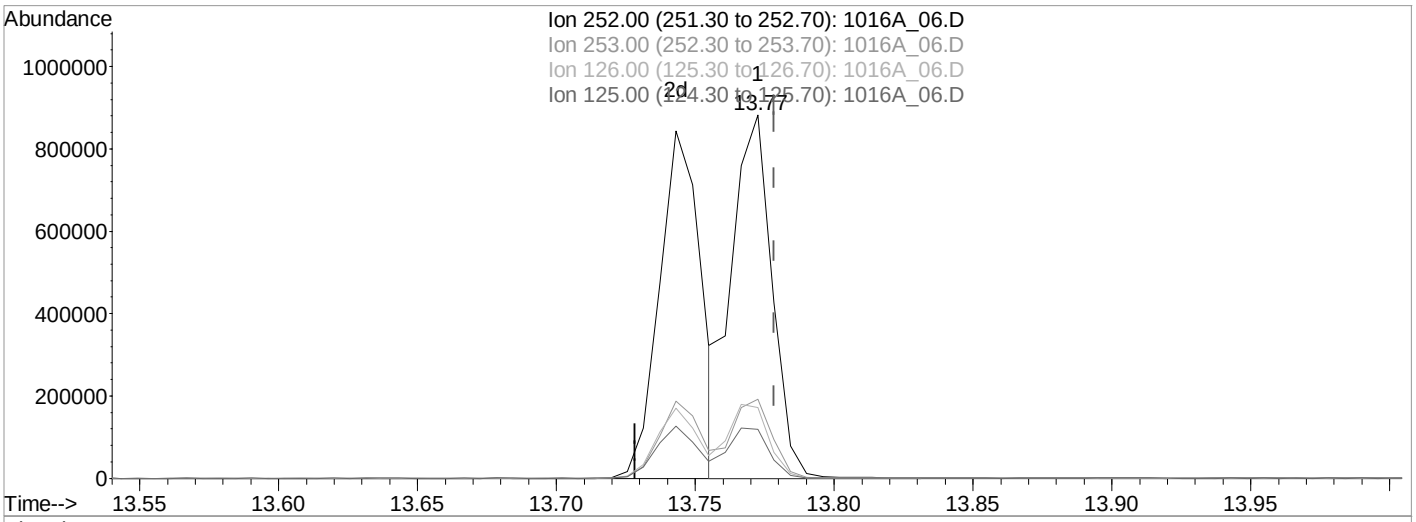
response 768399

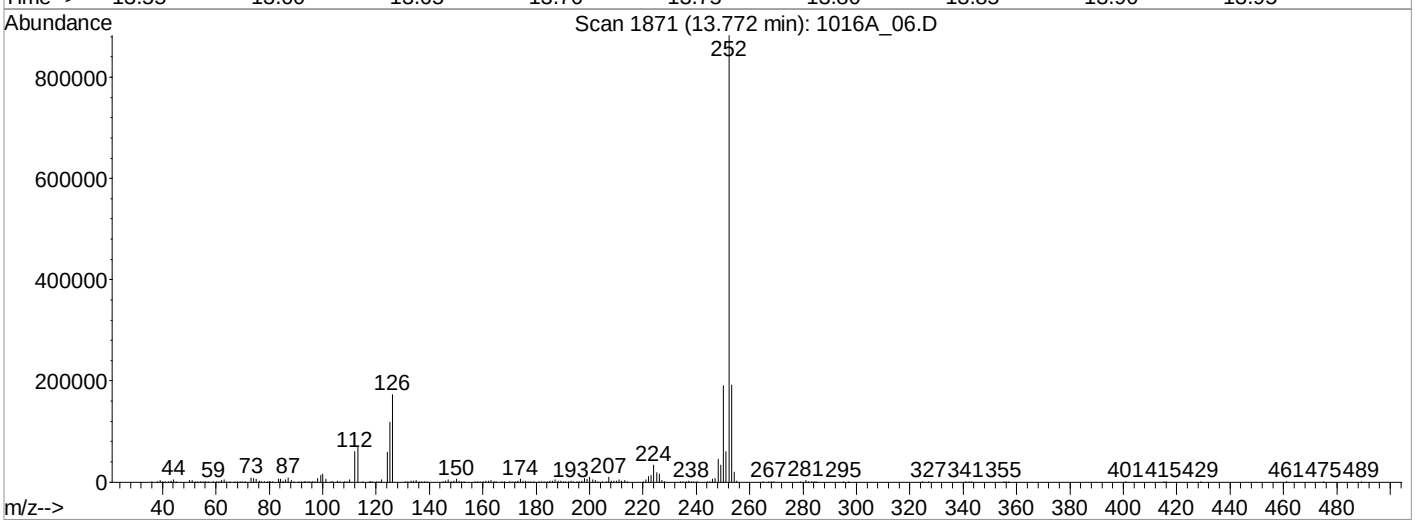
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.64
126.00	19.90	19.53
125.00	13.60	13.38

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

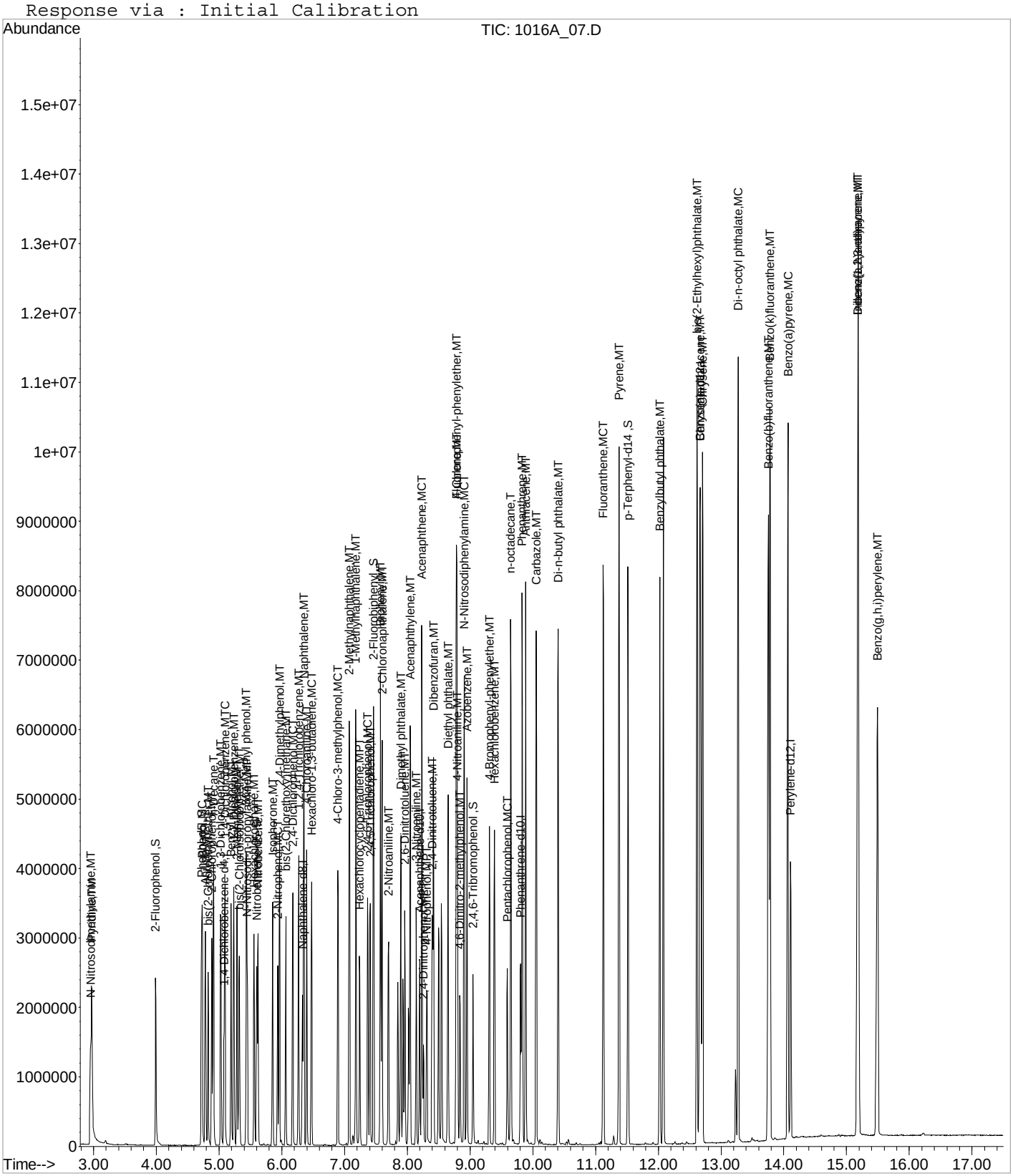
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	d	
41)	Hexachlorocyclopentadiene	7.24	237	438673	33366.5782857	ppb	98
42)	2,4,6-Trichlorophenol	7.37	196	485795	22177.9047190	ppb	98
43)	2,4,5-Trichlorophenol	7.41	196	538964	21884.7617991	ppb	99
45)	Biphenyl	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

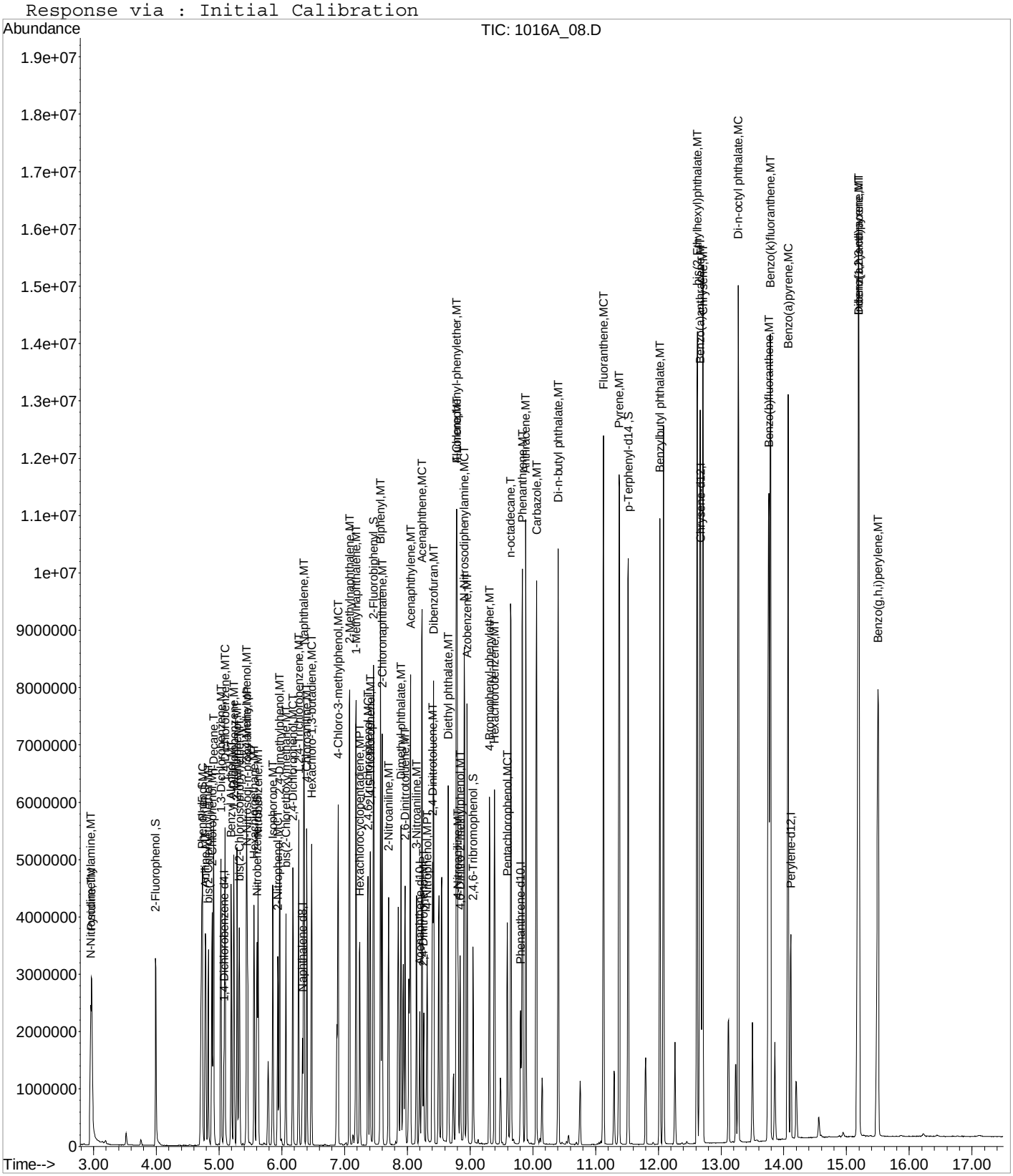
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	d		
41)	Hexachlorocyclopentadiene	7.24	237	603591	52490.6149922	ppb		99
42)	2,4,6-Trichlorophenol	7.37	196	673457	35151.6311152	ppb		95
43)	2,4,5-Trichlorophenol	7.41	196	735864	34162.3518407	ppb		98
45)	Biphenyl	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

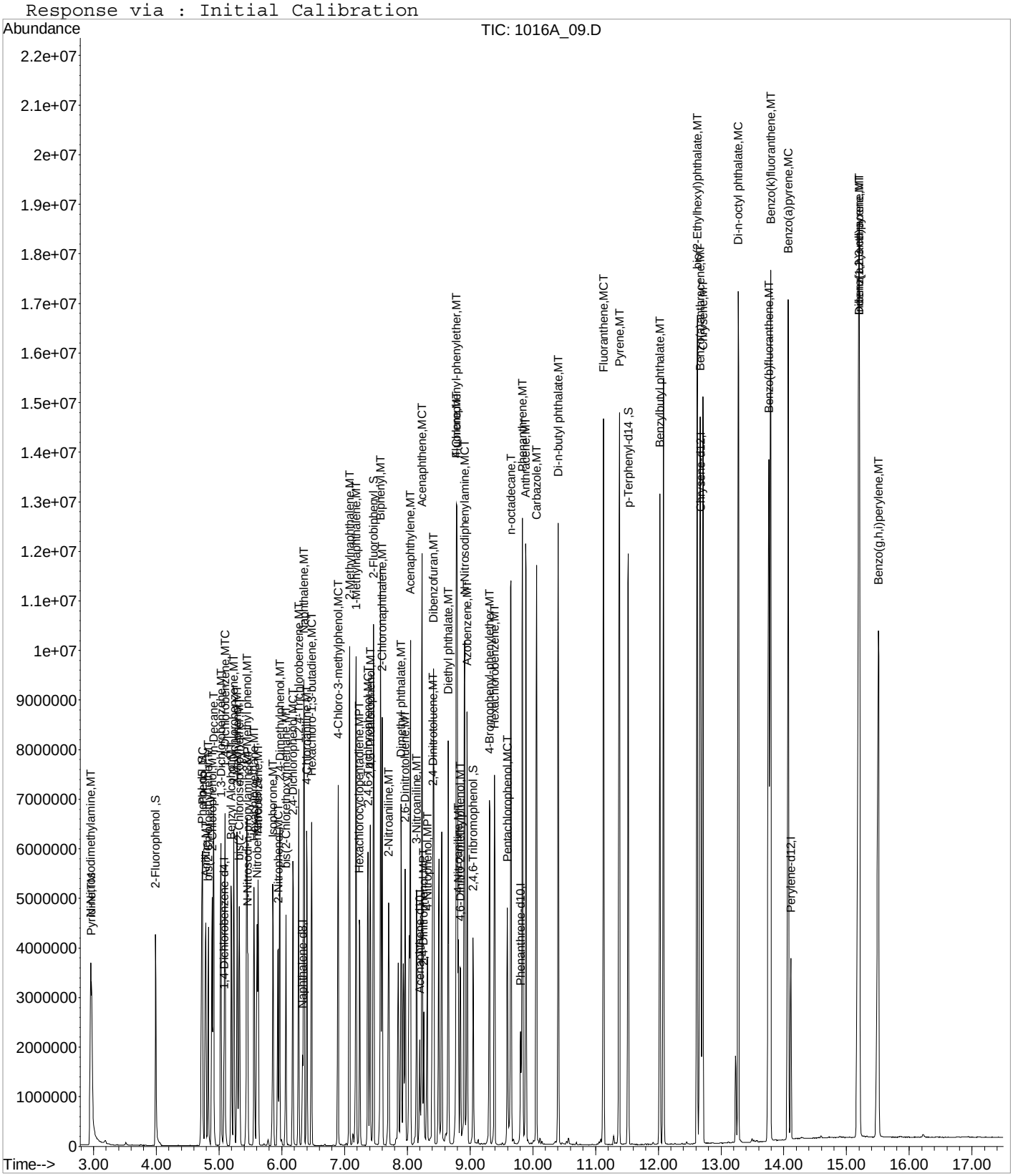
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	d		
41)	Hexachlorocyclopentadiene	7.24	237	790437	72993.4971311	ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	879988	48774.2236184	ppb		96
43)	2,4,5-Trichlorophenol	7.41	196	932096	45950.3531069	ppb		96
45)	Biphenyl	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

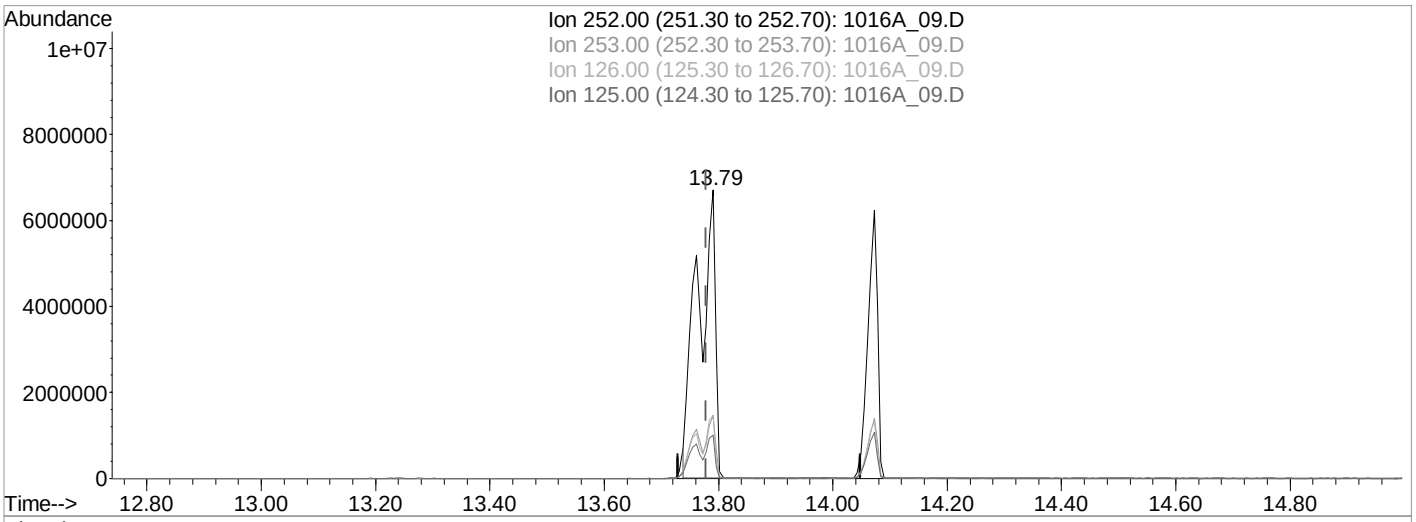
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:49:46 2014
Response via : Initial Calibration

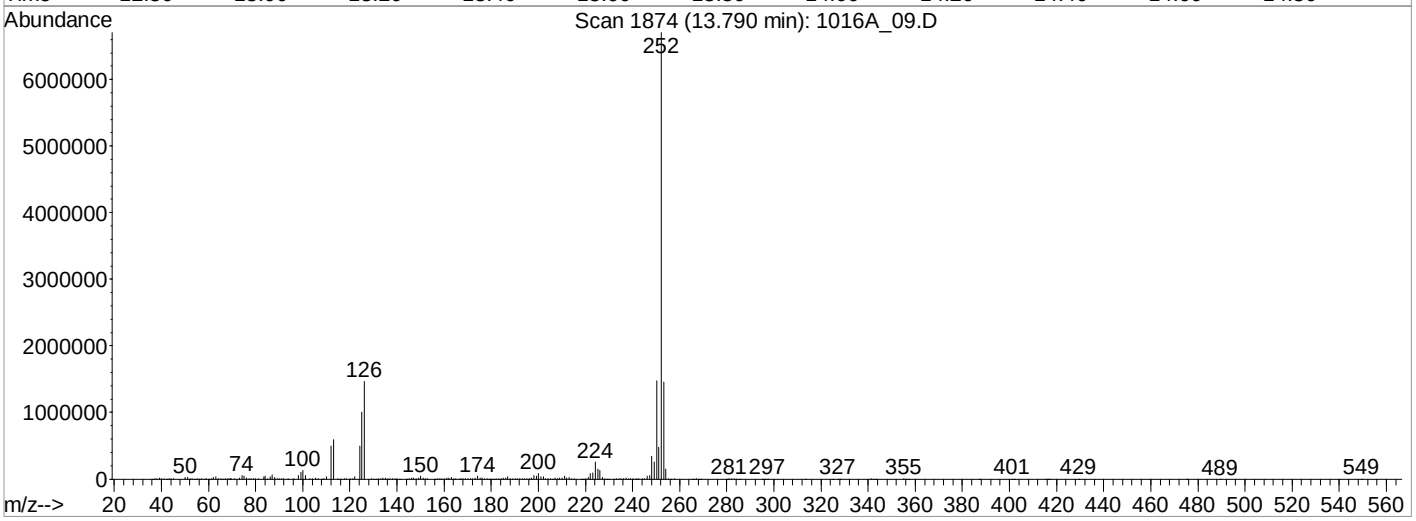


Quantitation Report (Qedit)

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

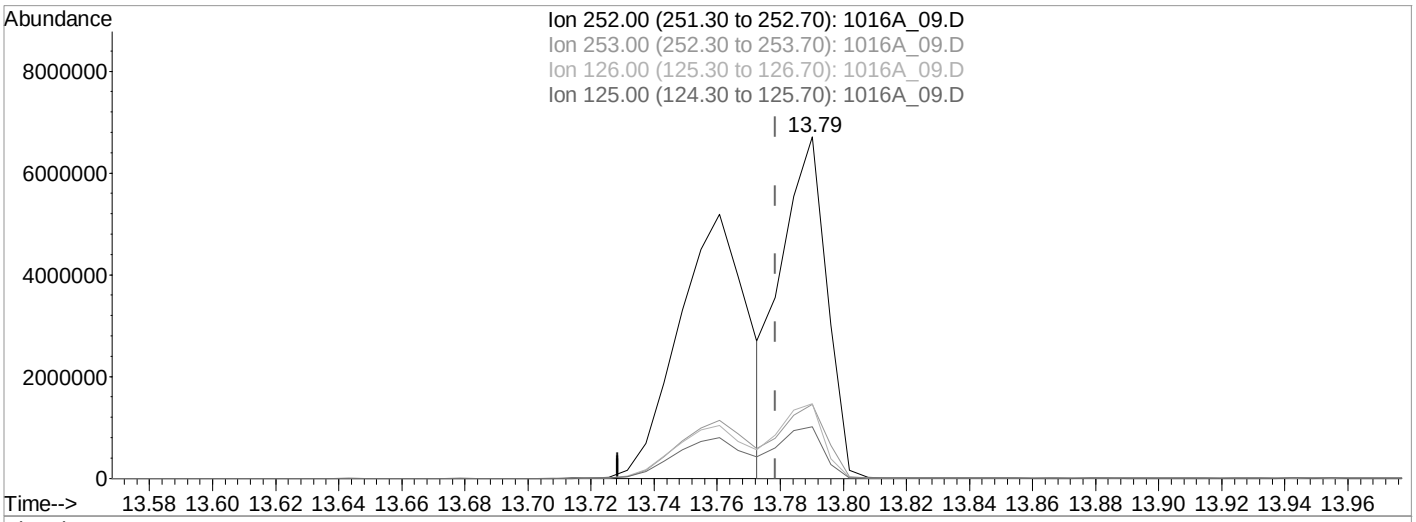
response 14304854

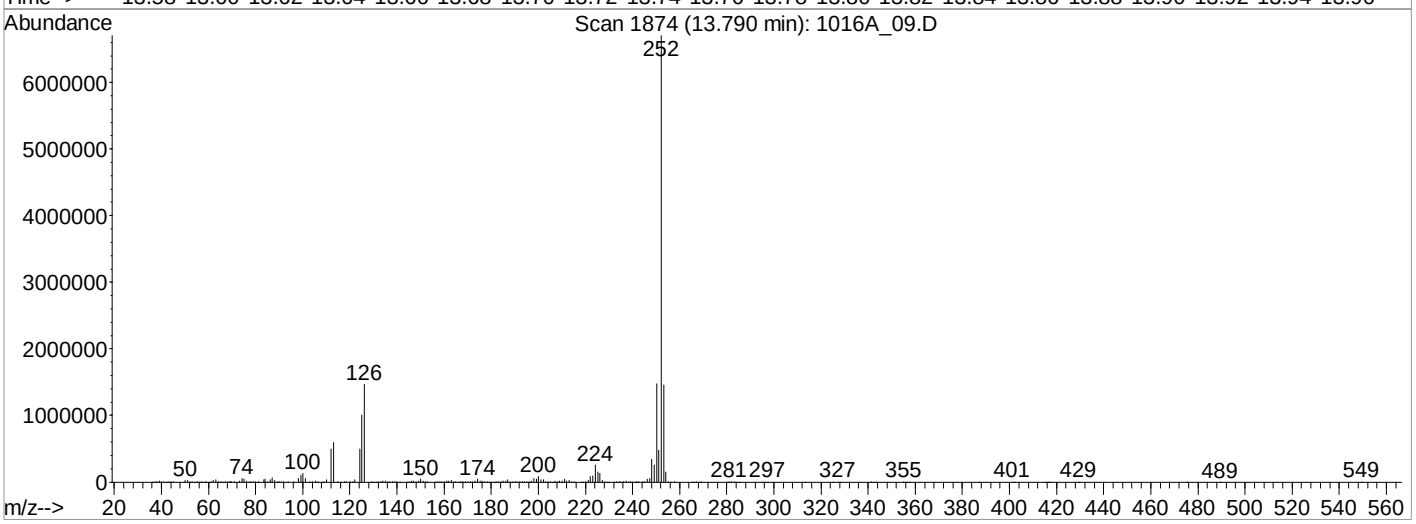
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.69
126.00	19.90	21.85
125.00	13.60	15.04

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

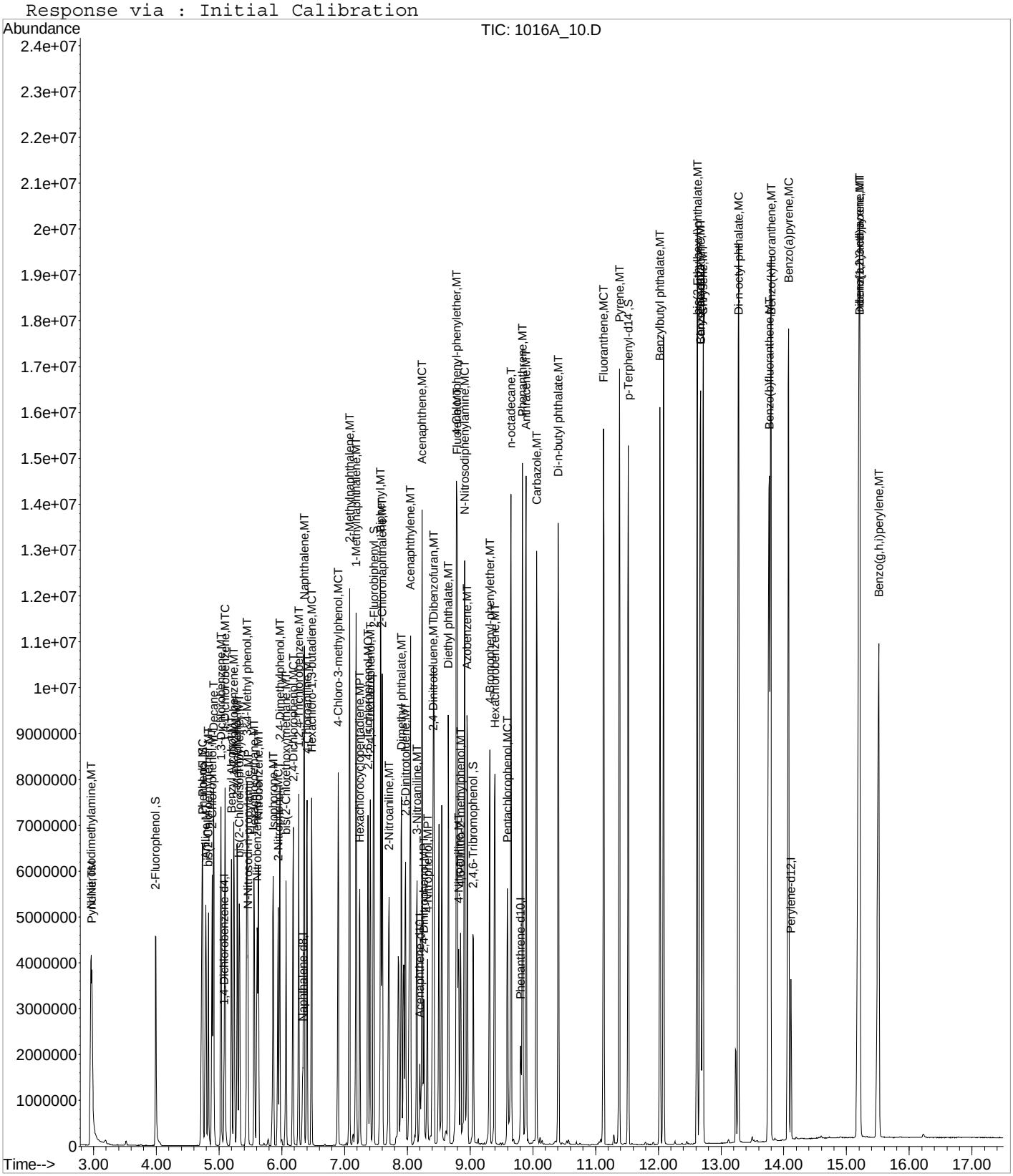
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	935809	94046.8073420 ppb		99
42)	2,4,6-Trichlorophenol	7.37	196	1032863	62301.1788584 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	1089520	58452.5342295 ppb		95
45)	Biphenyl	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

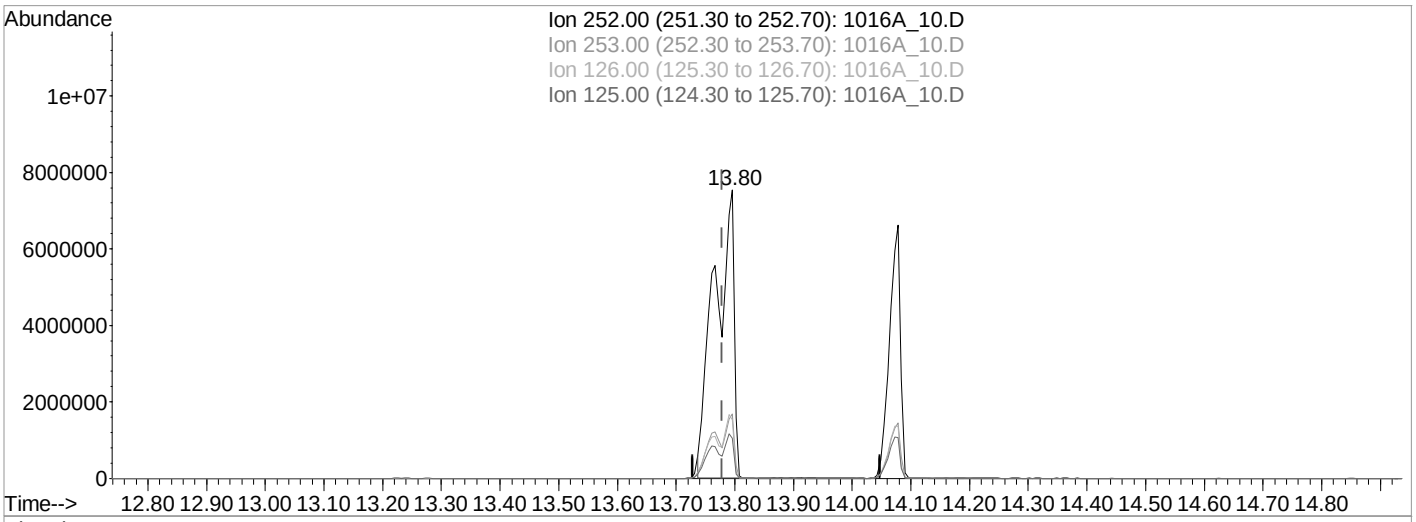


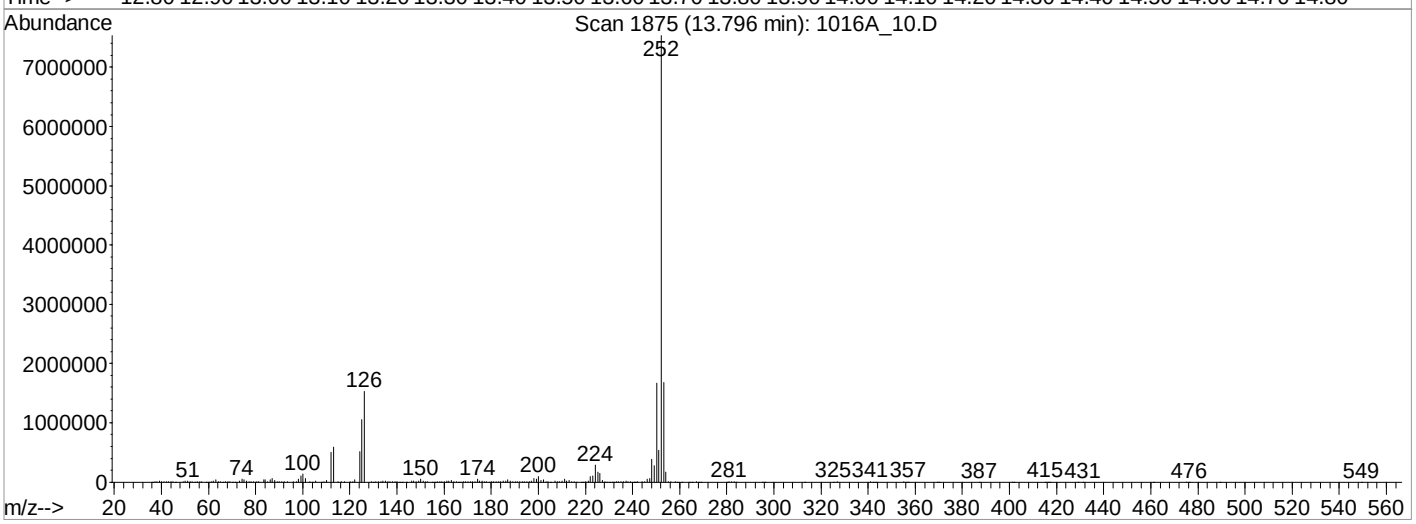
1016A_10.D S804J16N.M Fri Oct 17 08:53:07 2014 Page 3

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

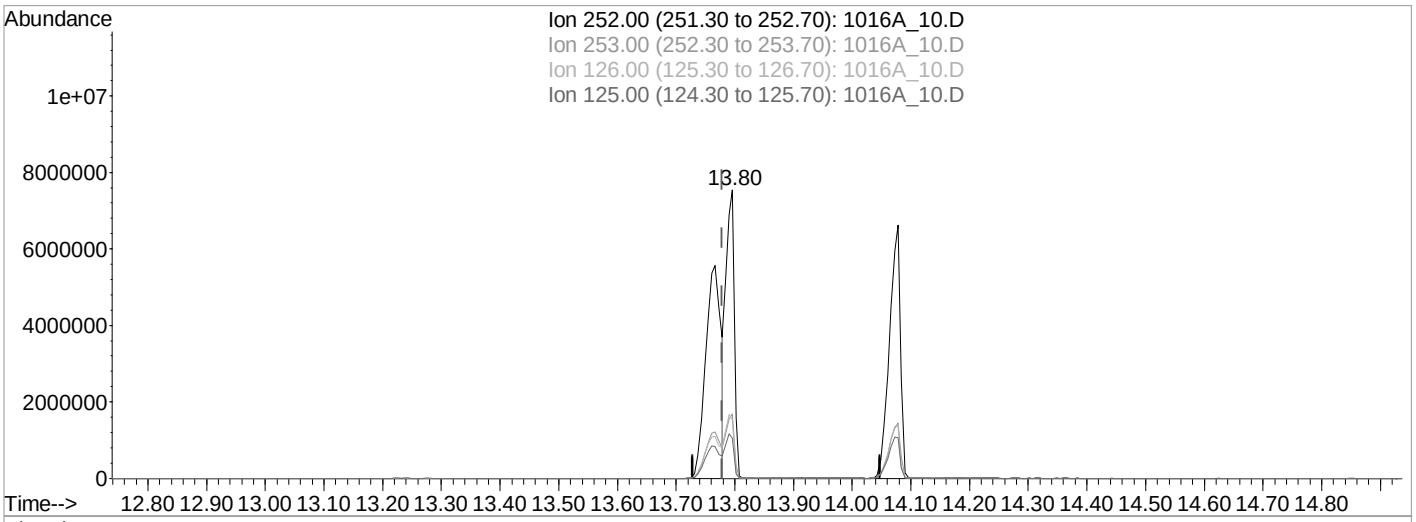
response 17290499

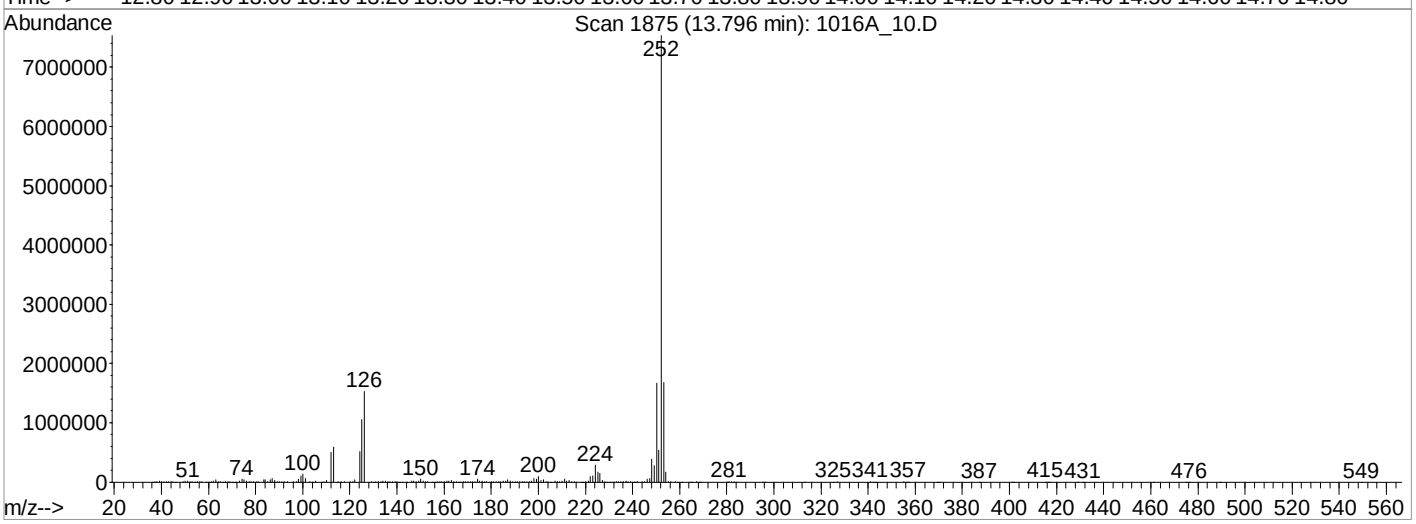
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	22.30
126.00	19.90	20.33
125.00	13.60	13.91

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

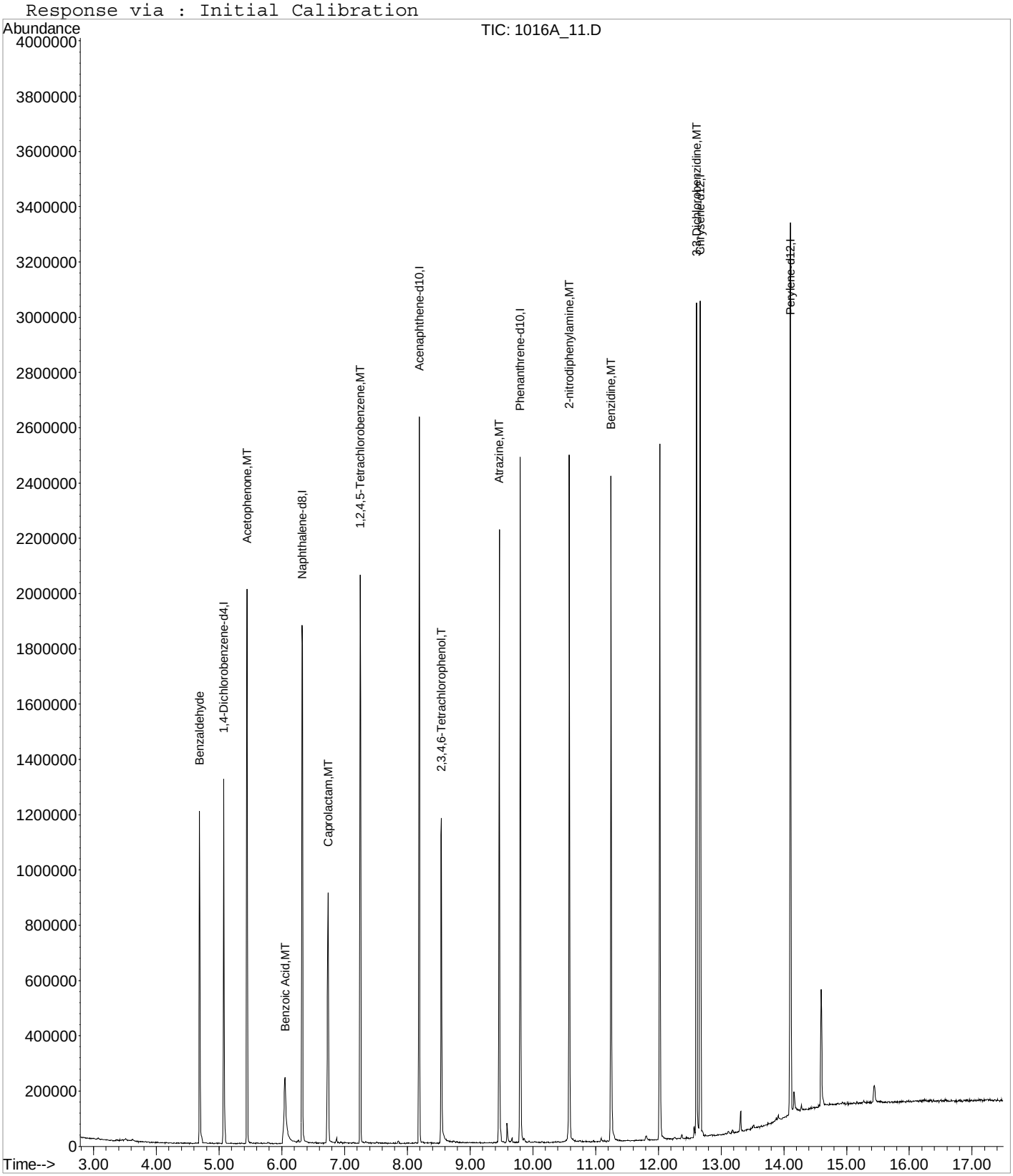
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	355440	10000.0000000 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D. d	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d	
45)	Biphenyl	0.00	154	0	N.D. d	
46)	2-Chloronaphthalene	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

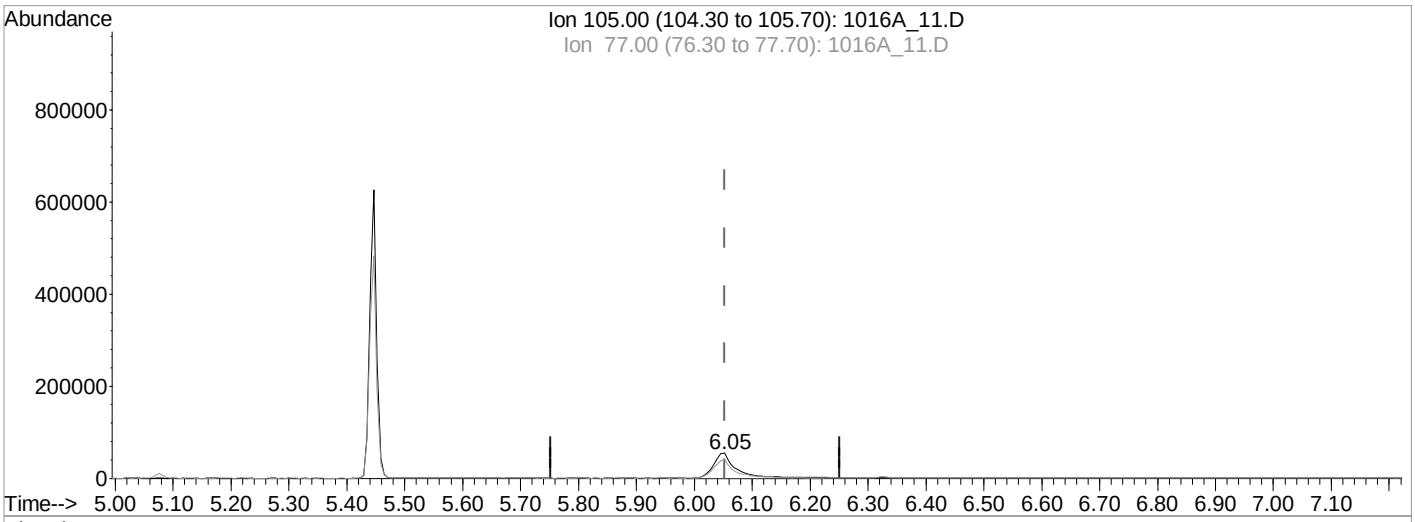
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Initial Calibration

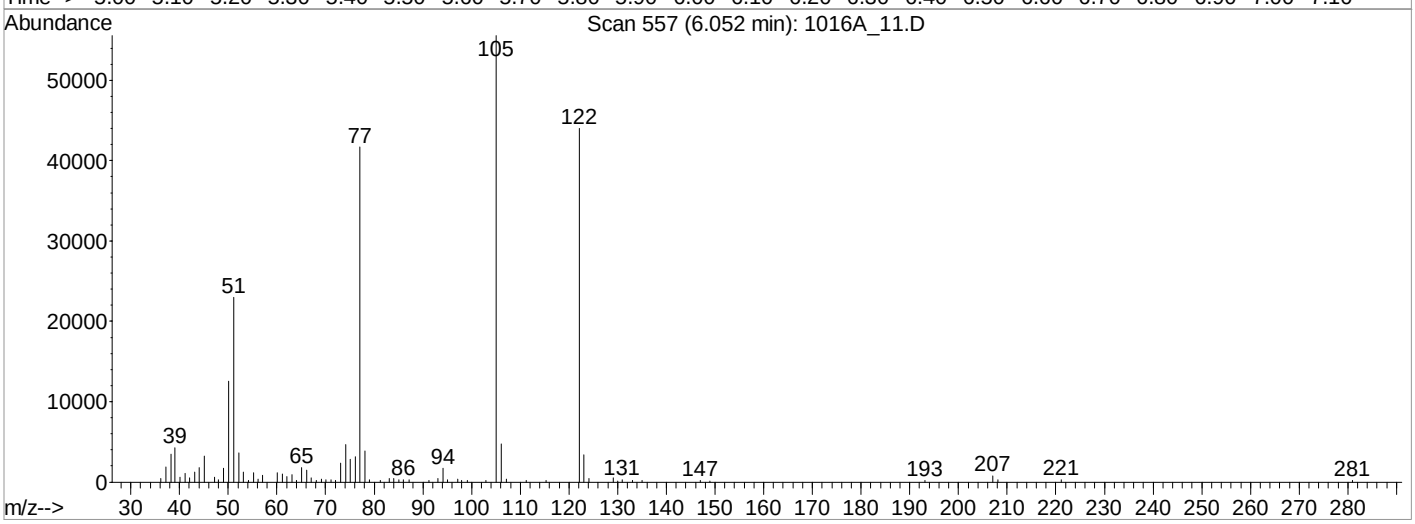


Quantitation Report (Qedit)

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

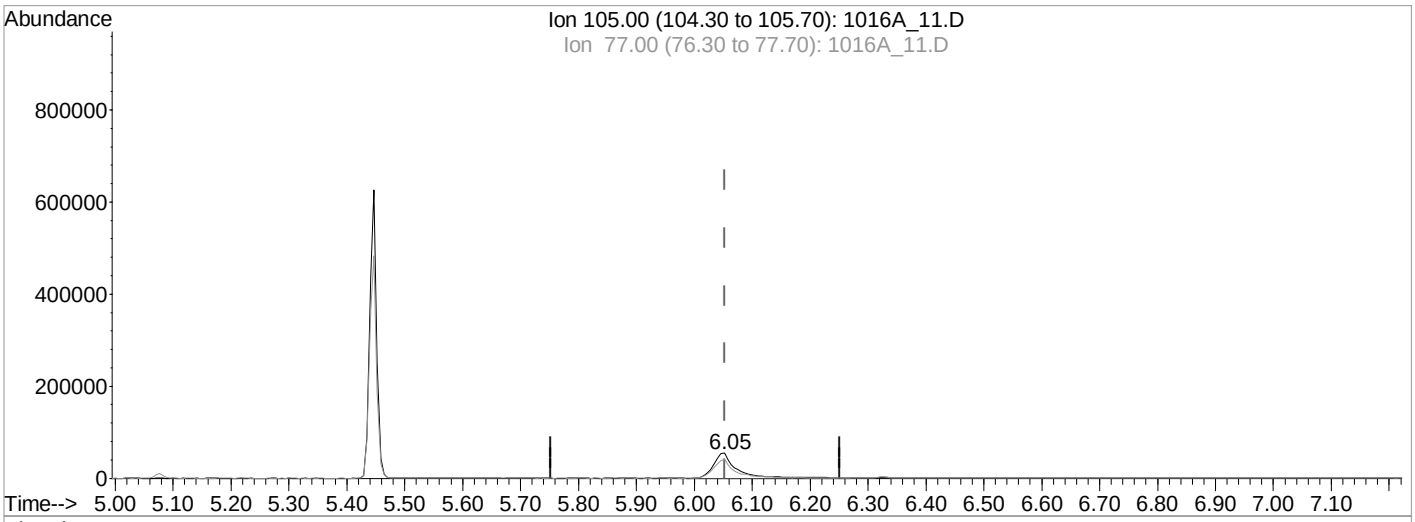
response 154403

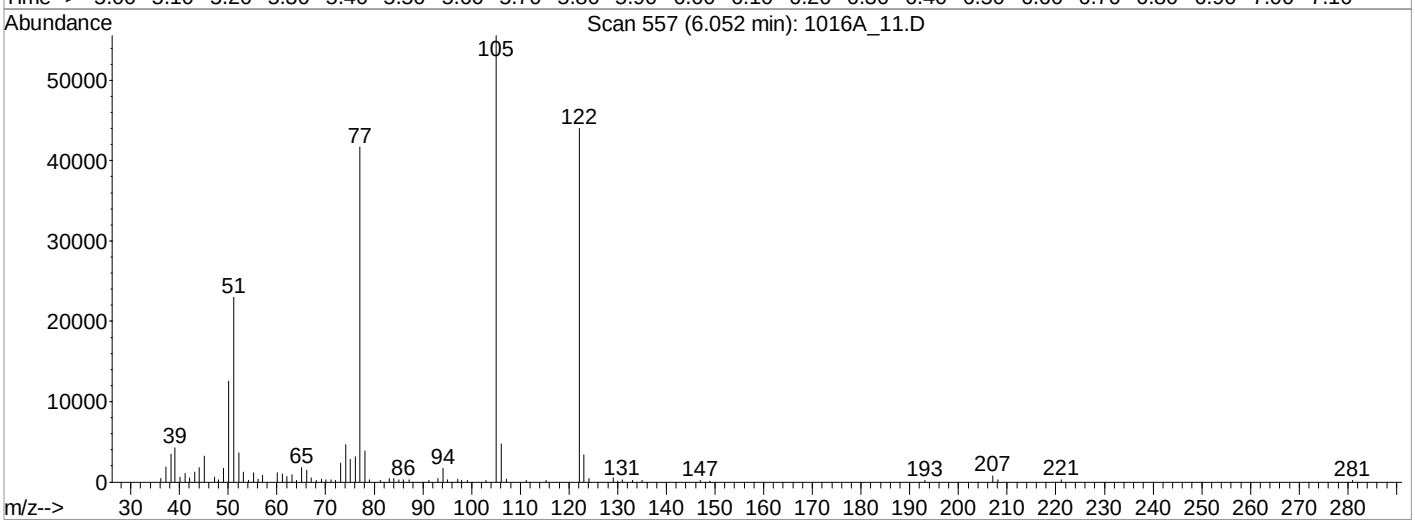
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	73.62
0.00	0.00	0.00
0.00	0.00	0.00

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

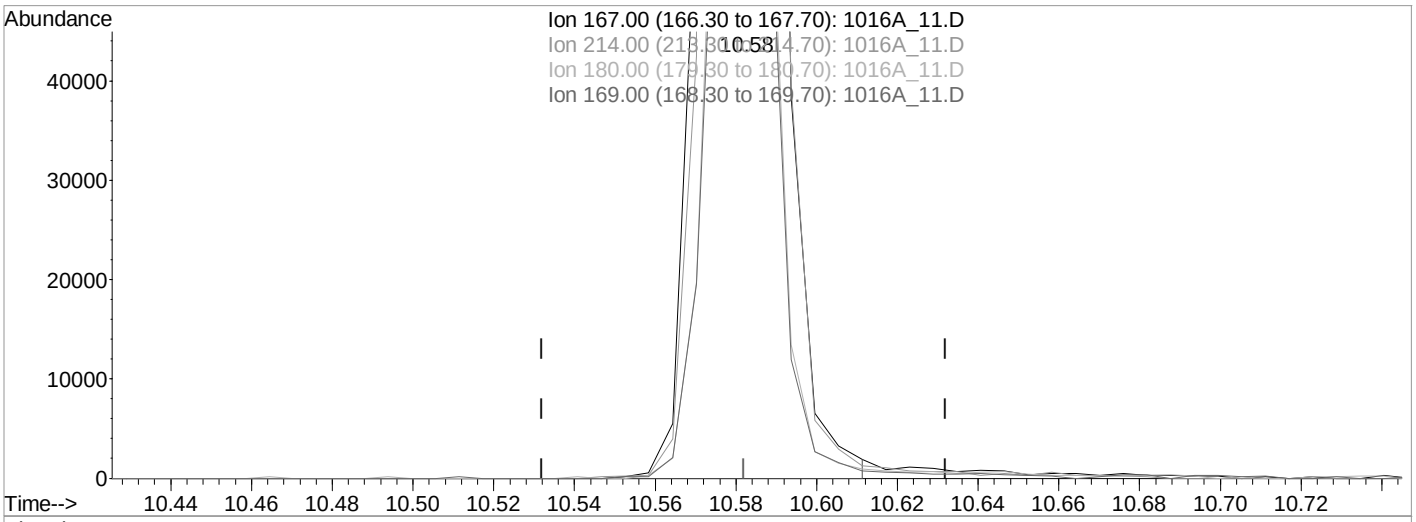
response 157857

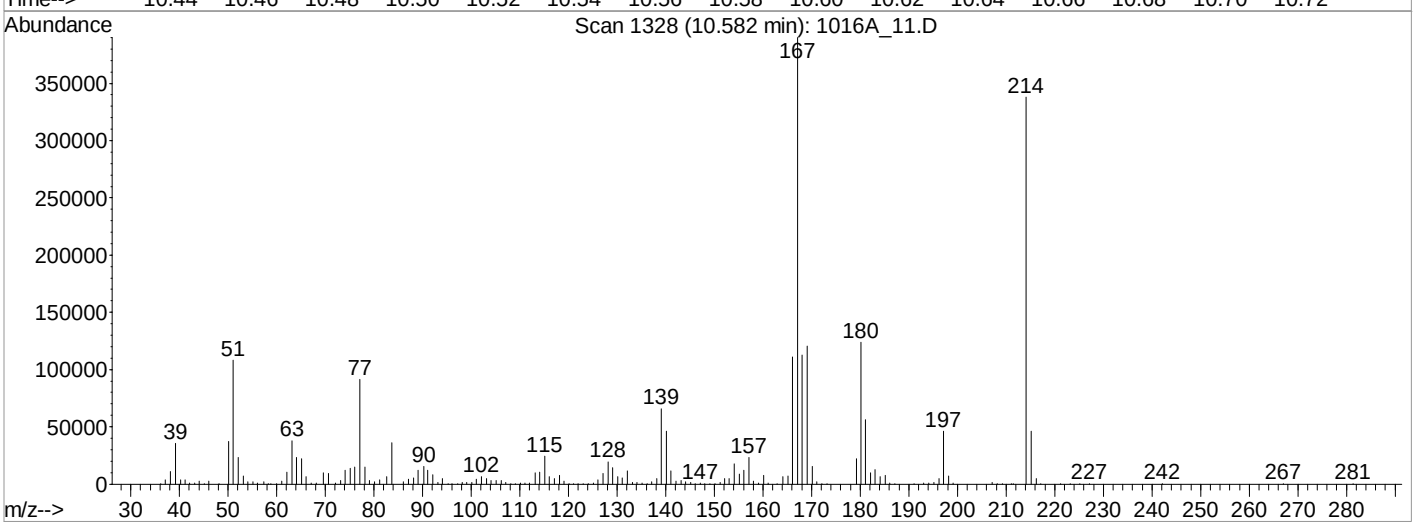
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	72.01
0.00	0.00	0.00
0.00	0.00	0.00

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

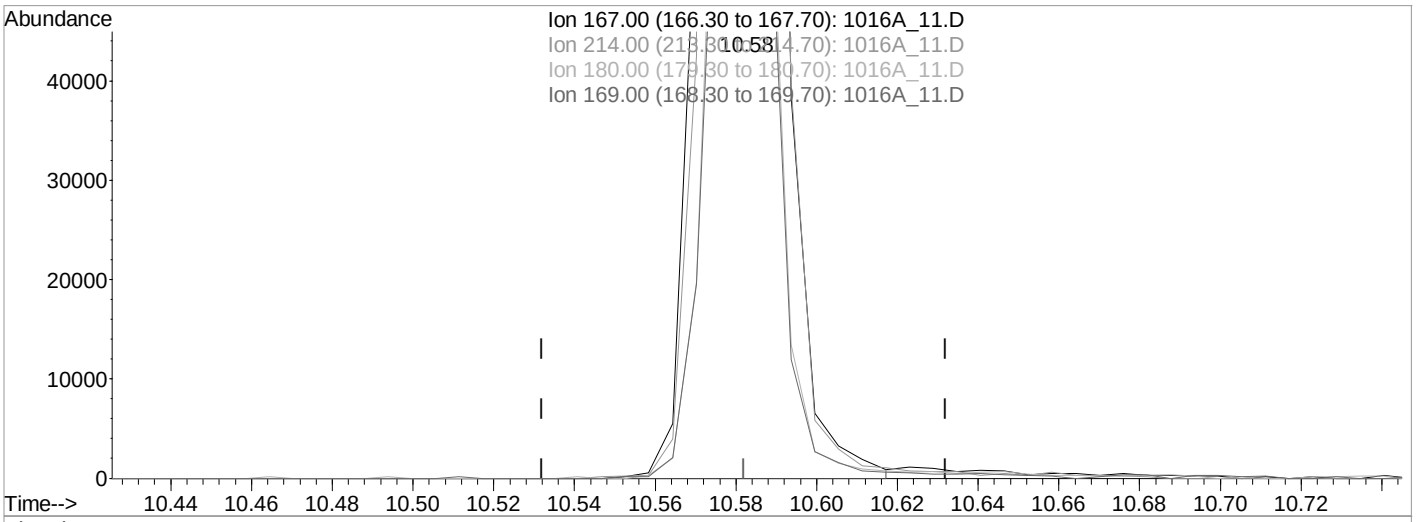
response 339643

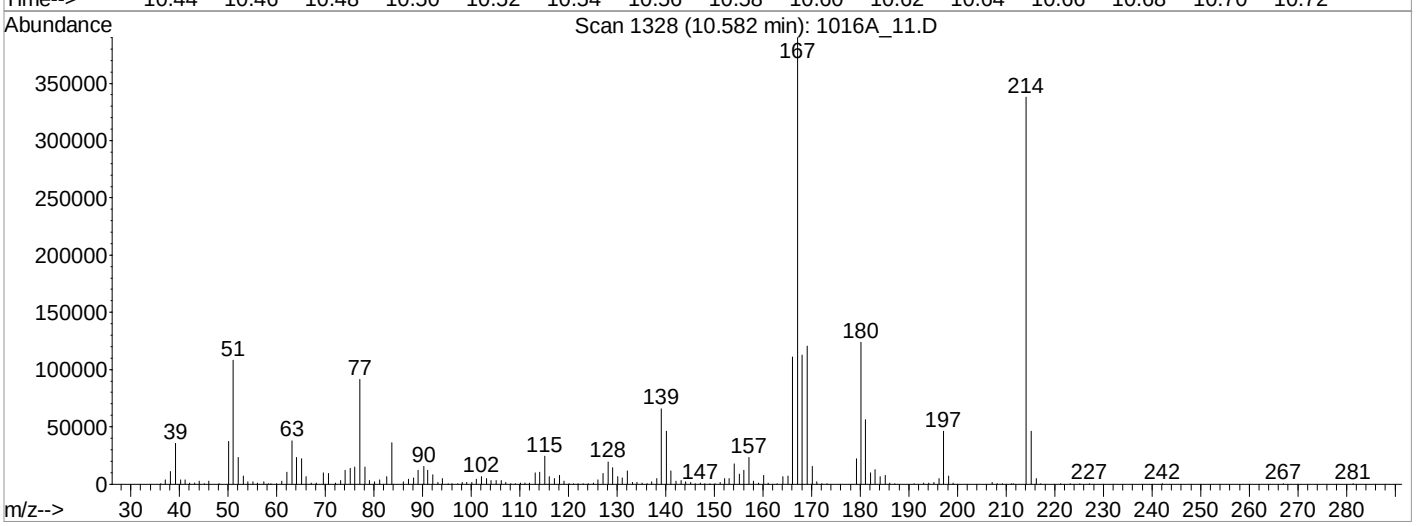
Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.89#
180.00	0.00	32.43#
169.00	0.00	31.14#

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

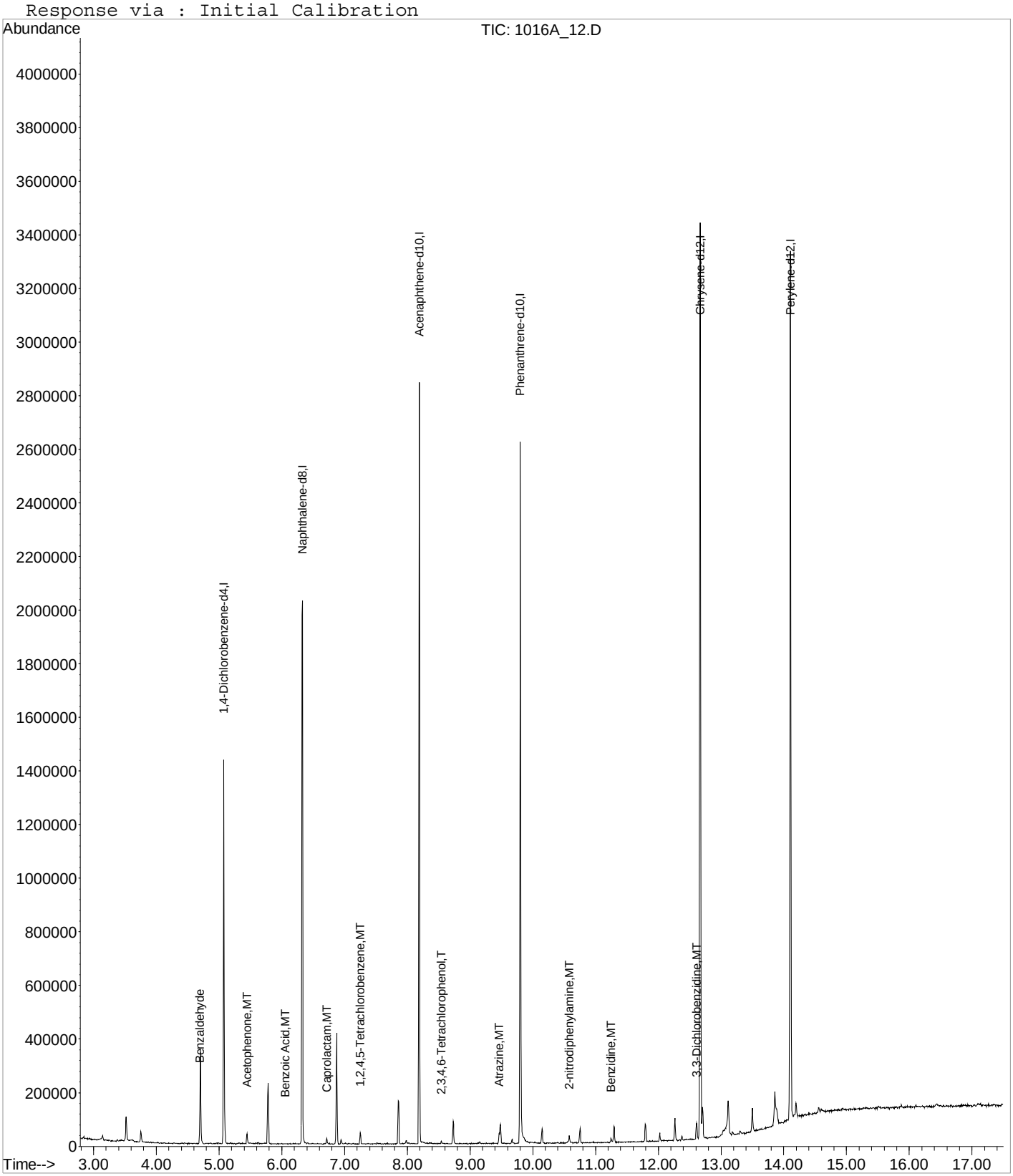
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	6983	184.0206937 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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

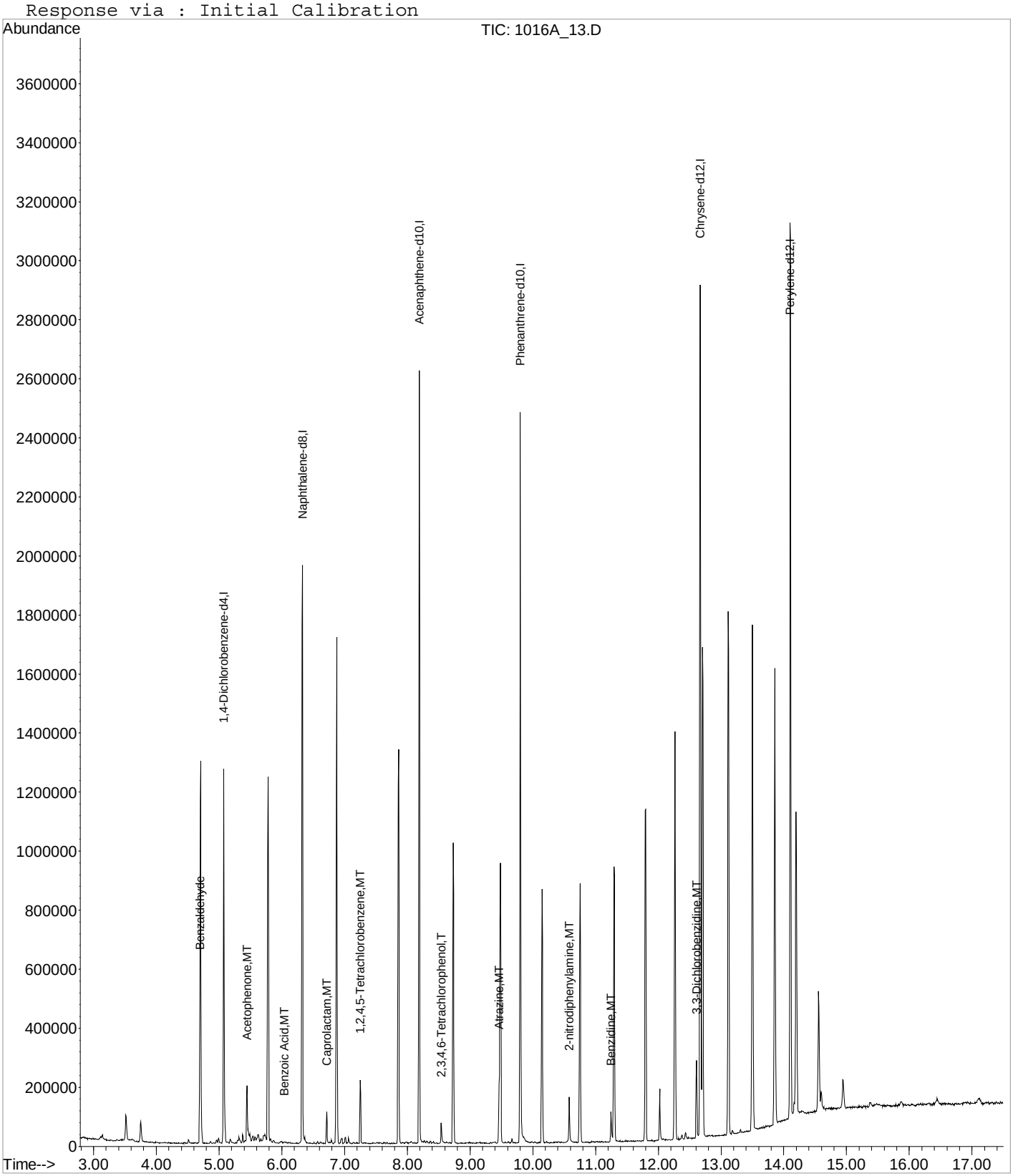
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	36175	1001.6398137 ppb	99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D. d	
46)	2-Chloronaphthalene	0.00	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

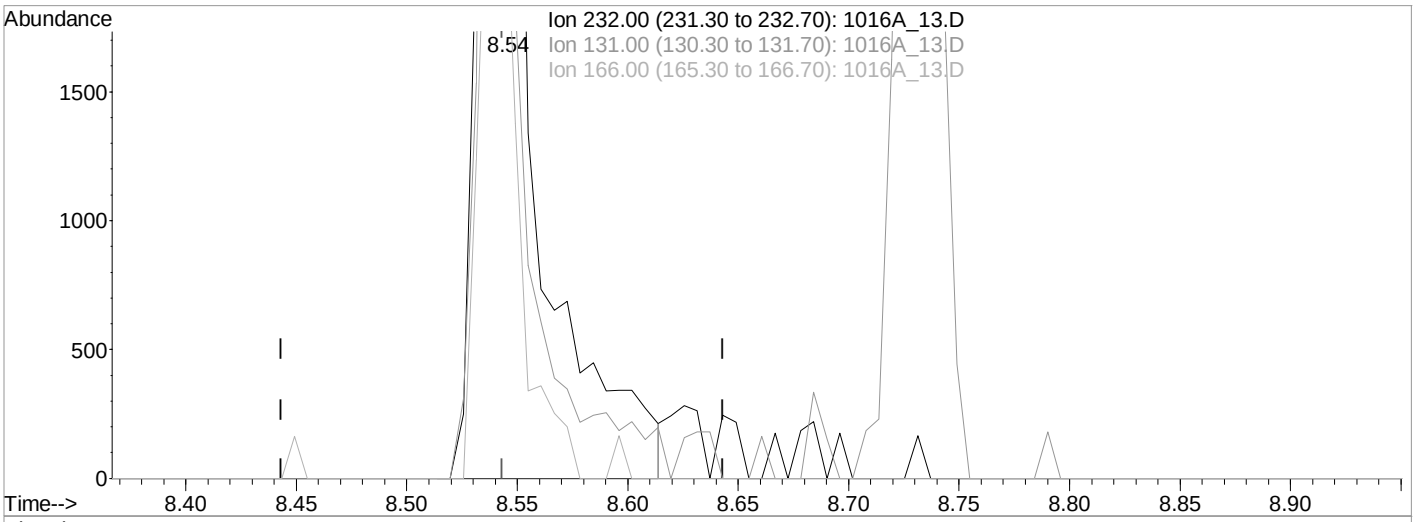
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:58:02 2014
Response via : Initial Calibration

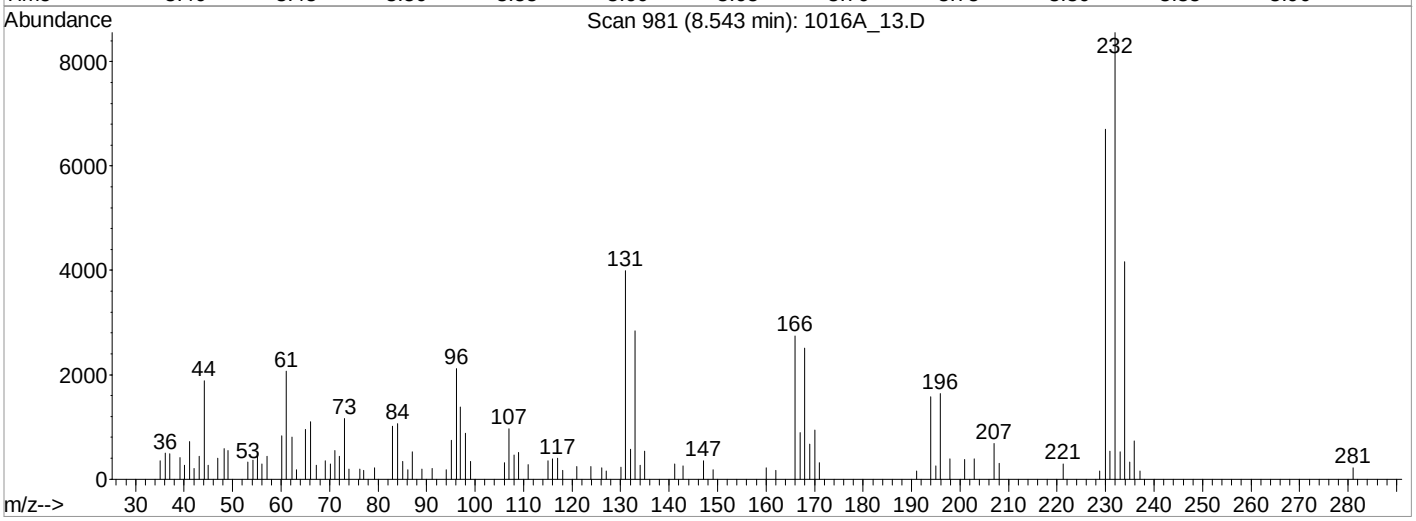


Quantitation Report (Qedit)

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

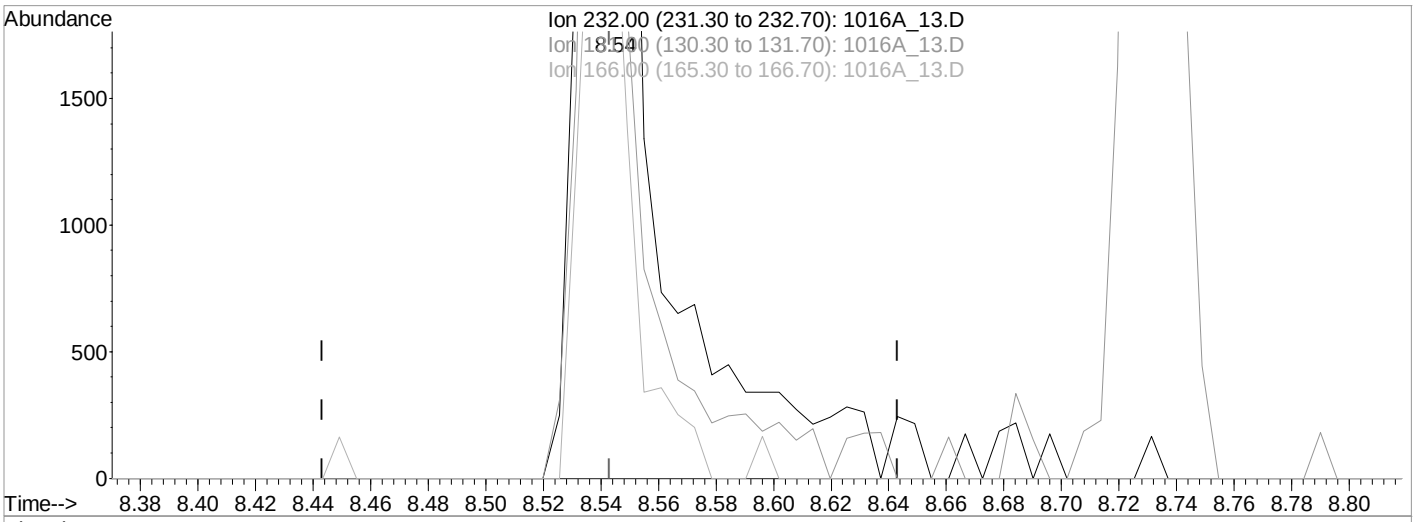
response 9882

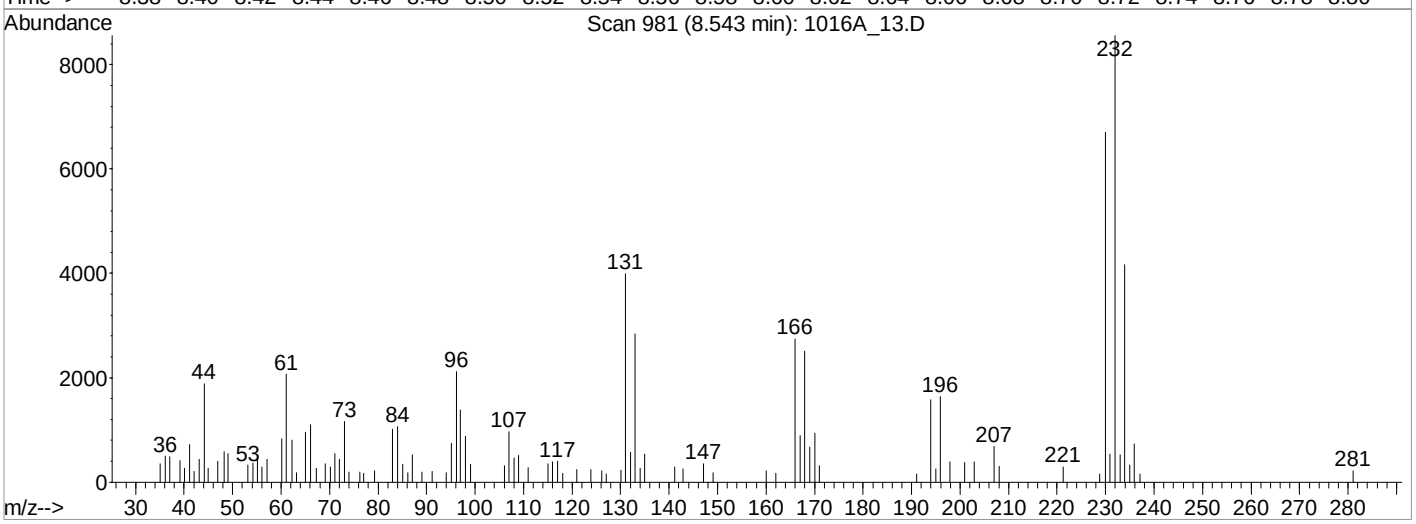
Ion	Exp%	Act%
232.00	100	100
131.00	46.90	46.65
166.00	29.20	32.01
0.00	0.00	0.00

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

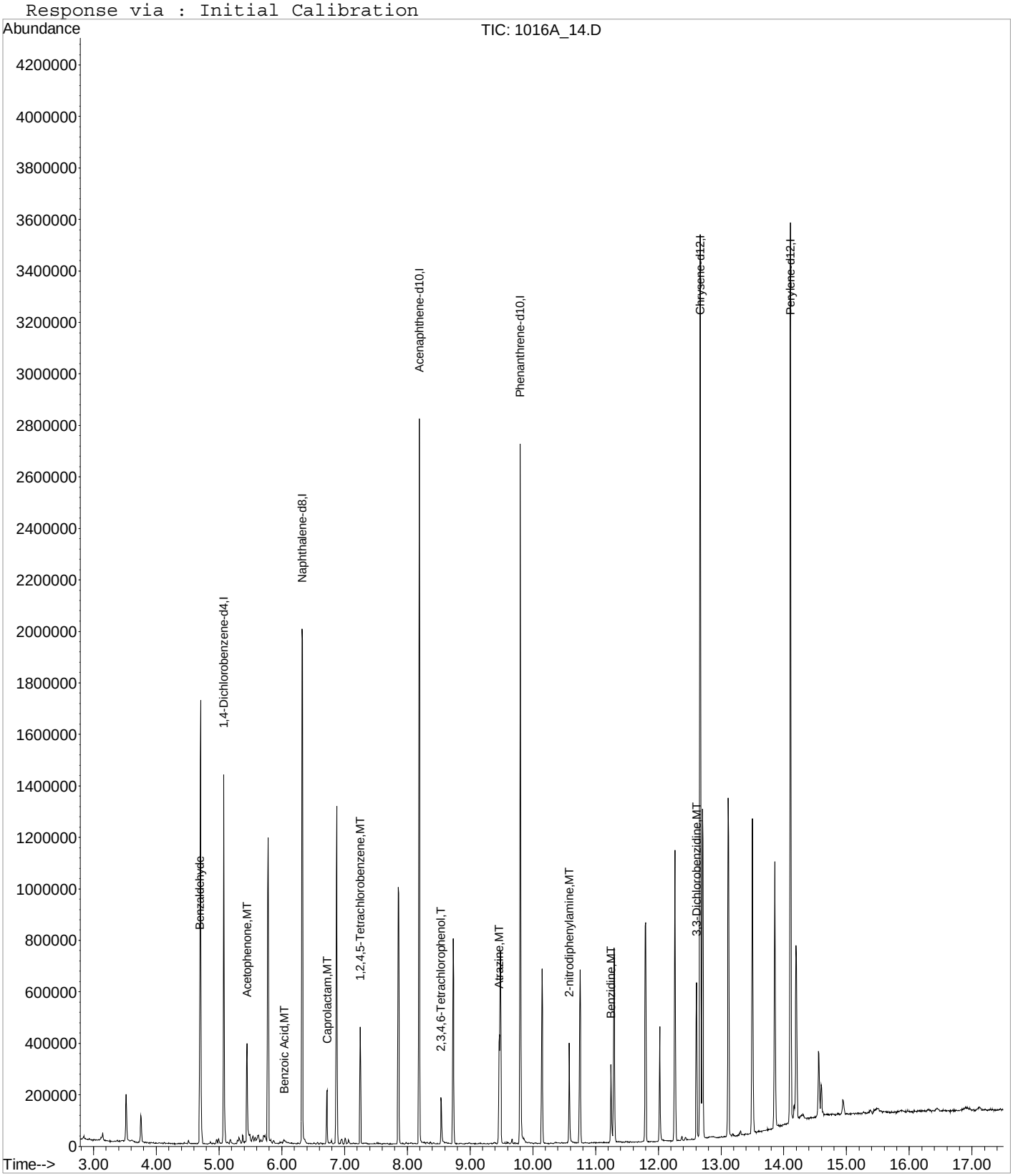
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	74238	1950.2525364 ppb		98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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

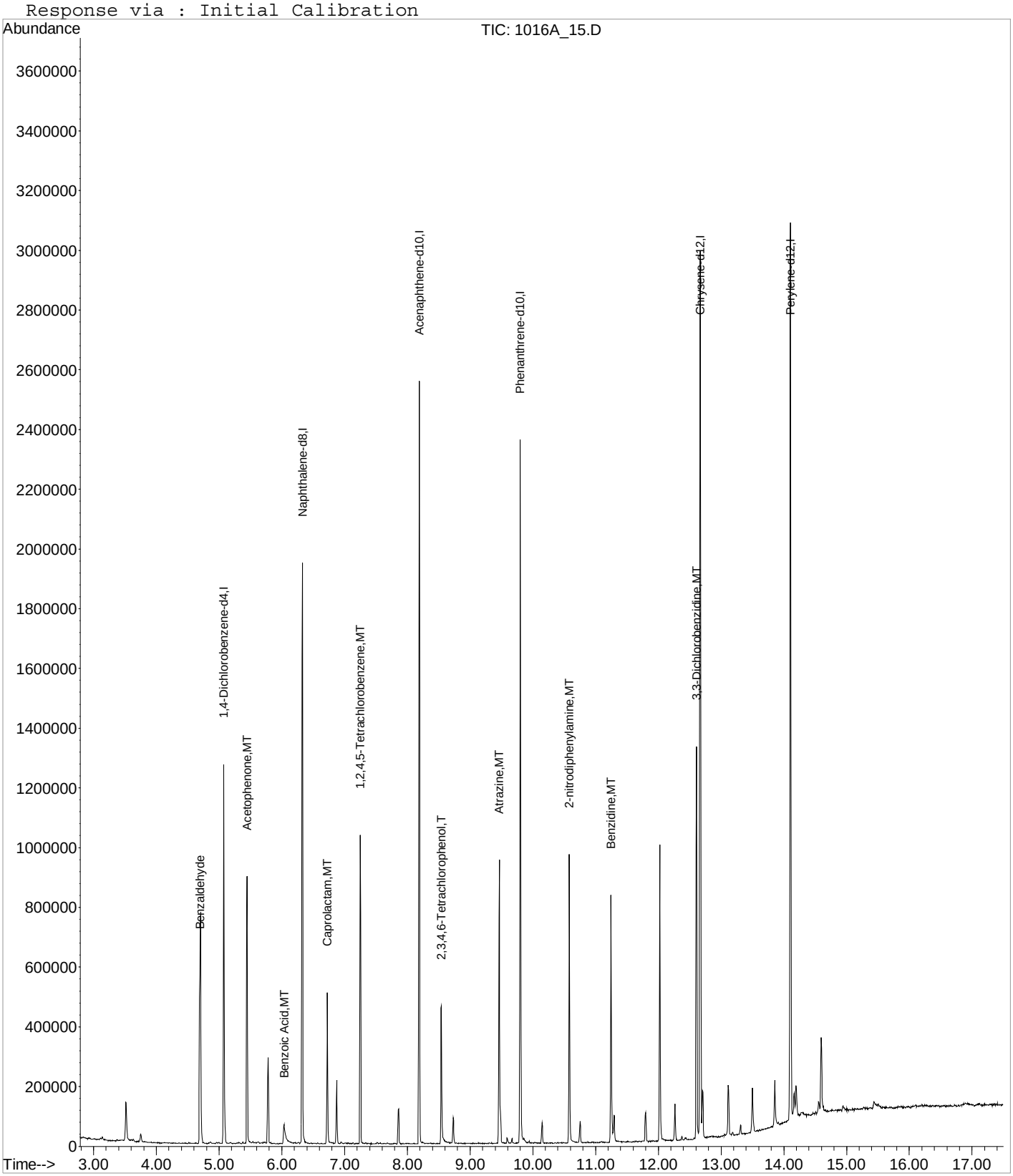
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	169116	4847.4170384 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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

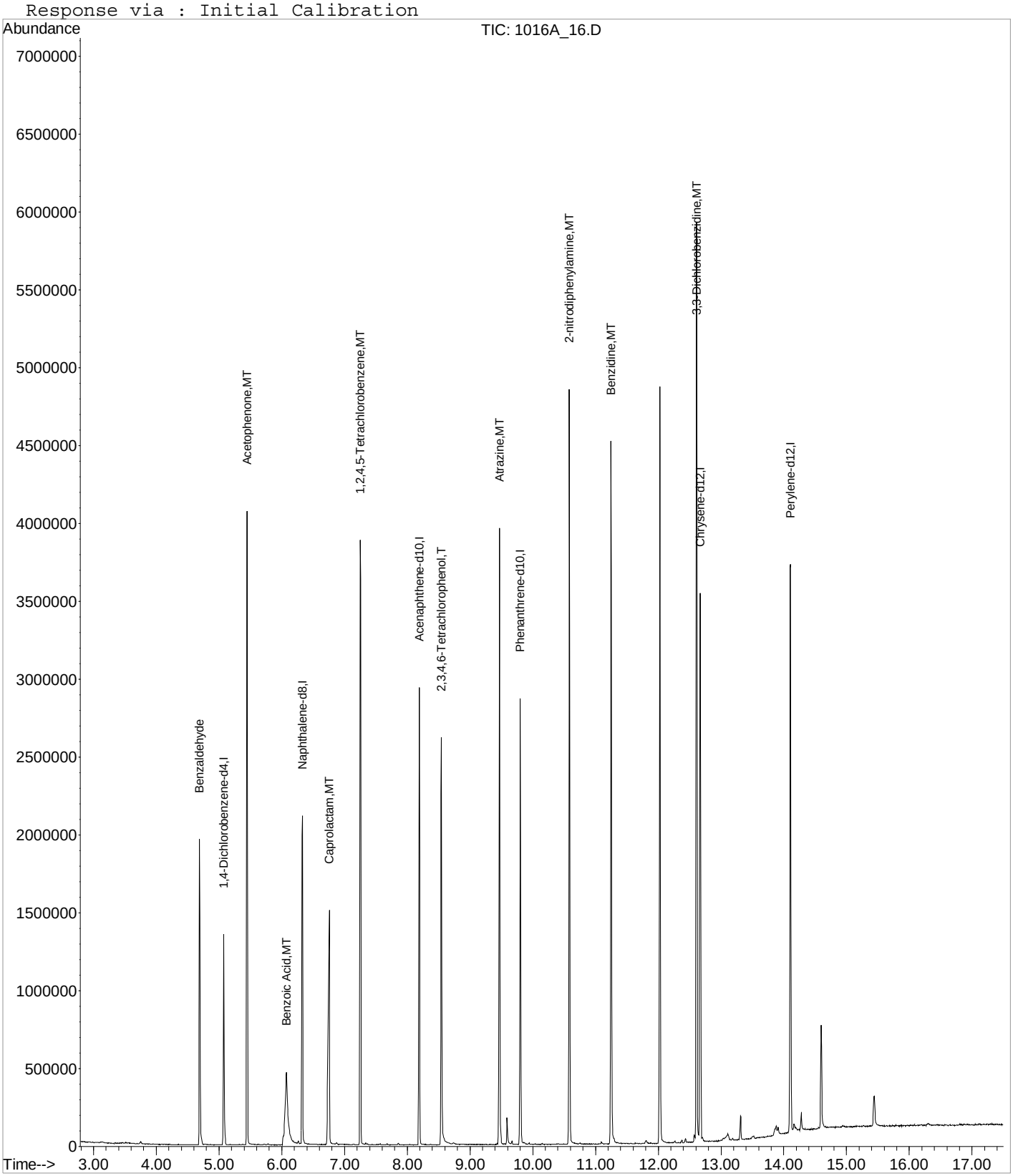
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	700944	17831.3896385 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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

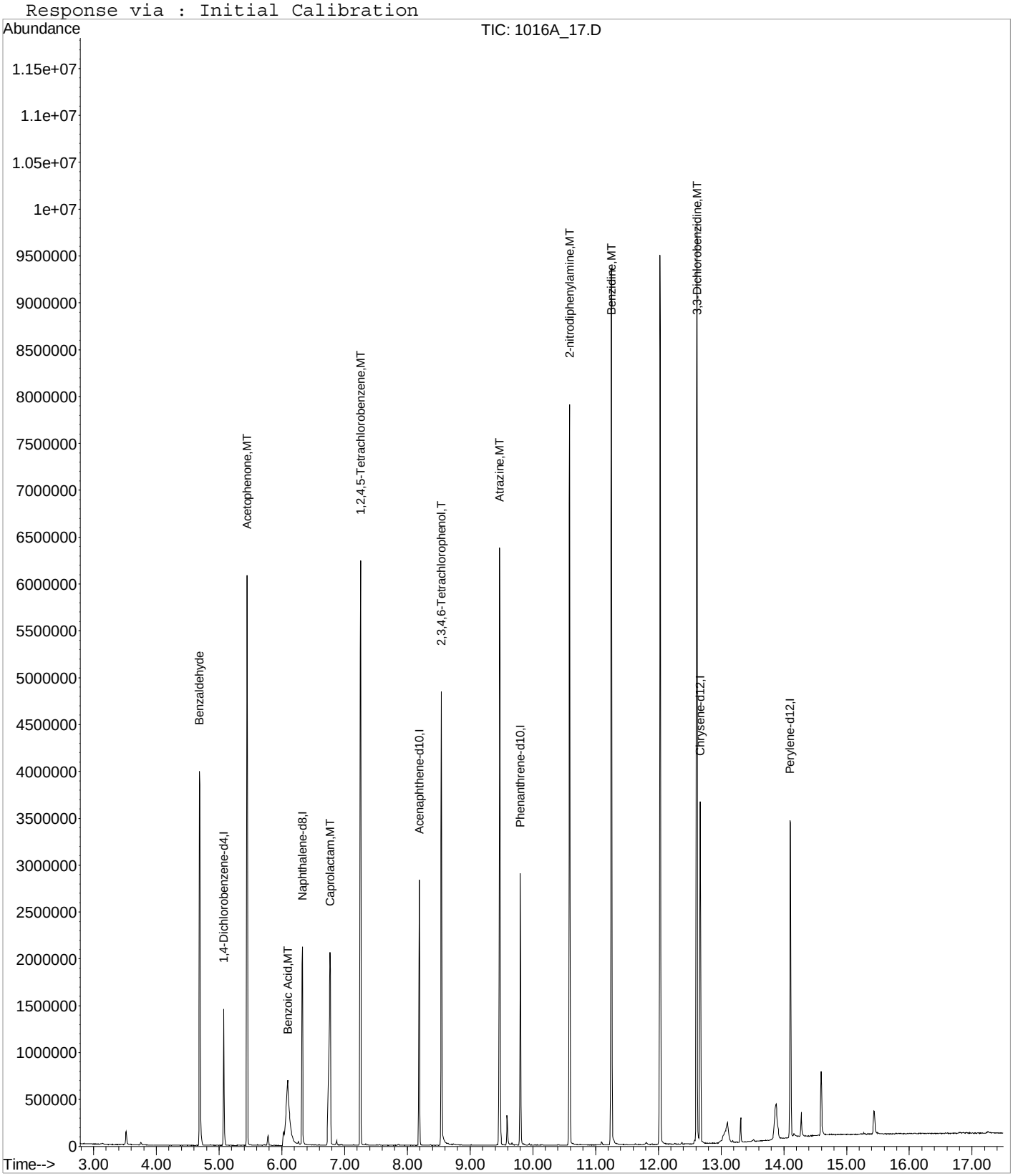
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1108222	28315.8938822 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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

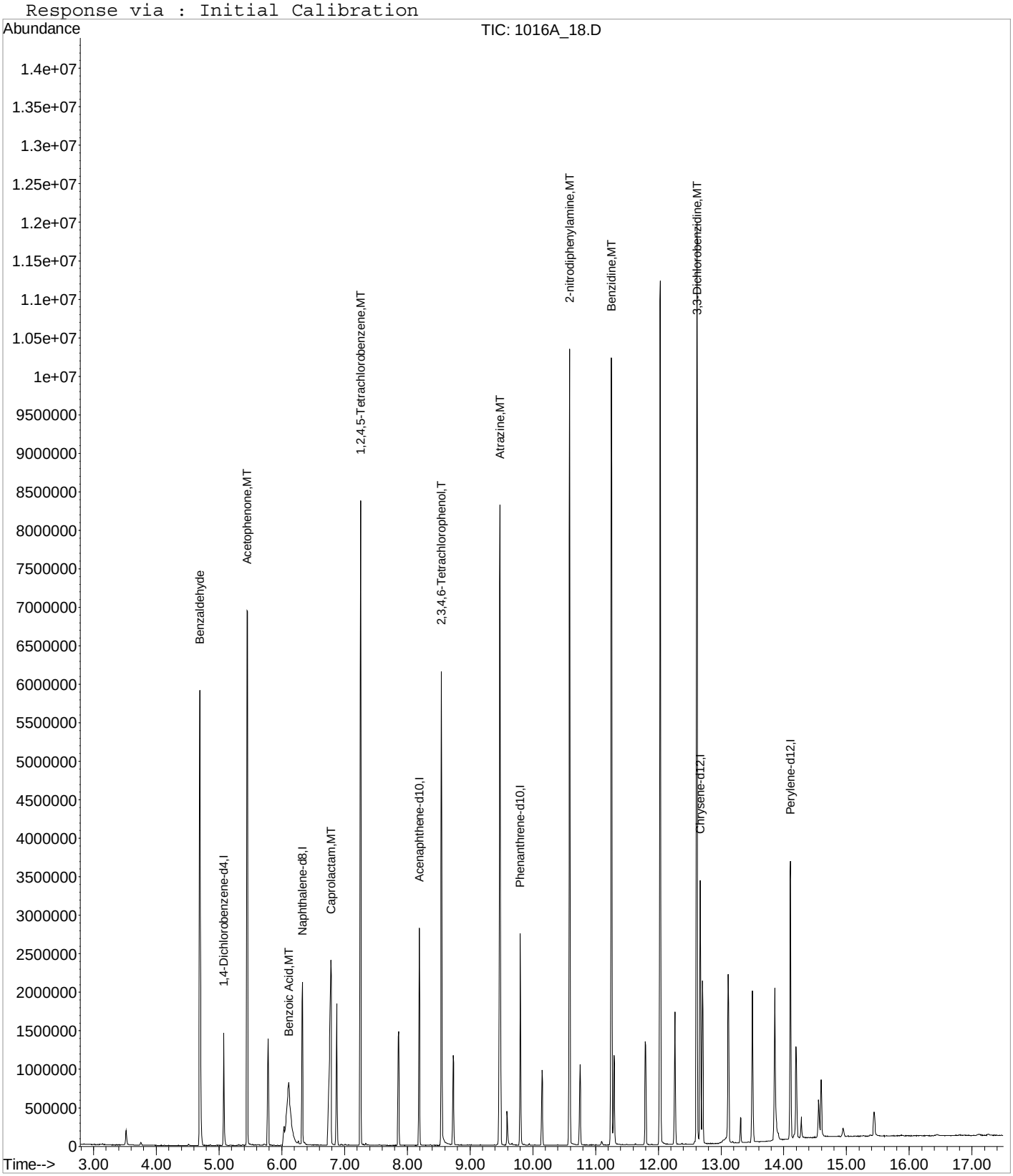
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1445591	37585.2974107 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	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

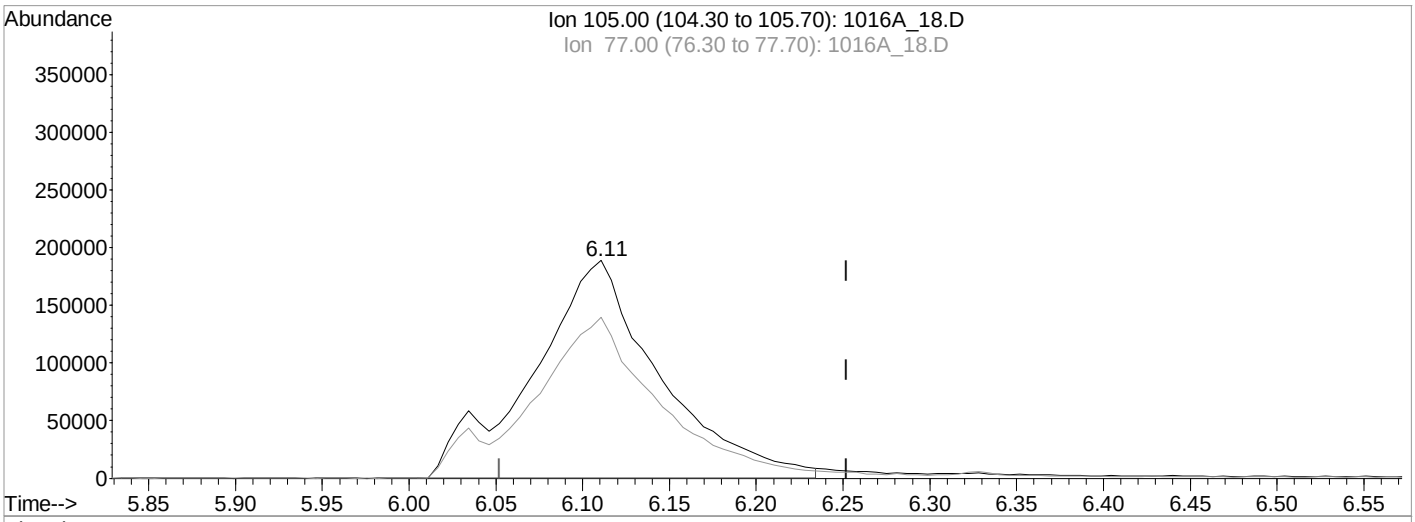
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:05:52 2014
Response via : Initial Calibration

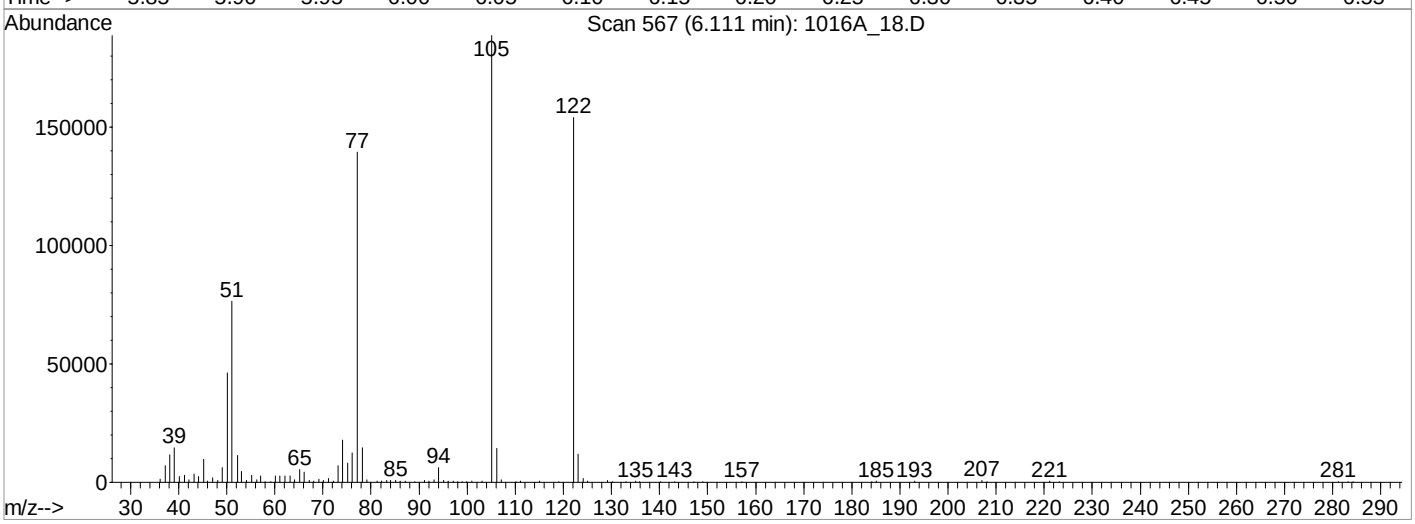


Quantitation Report (Qedit)

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

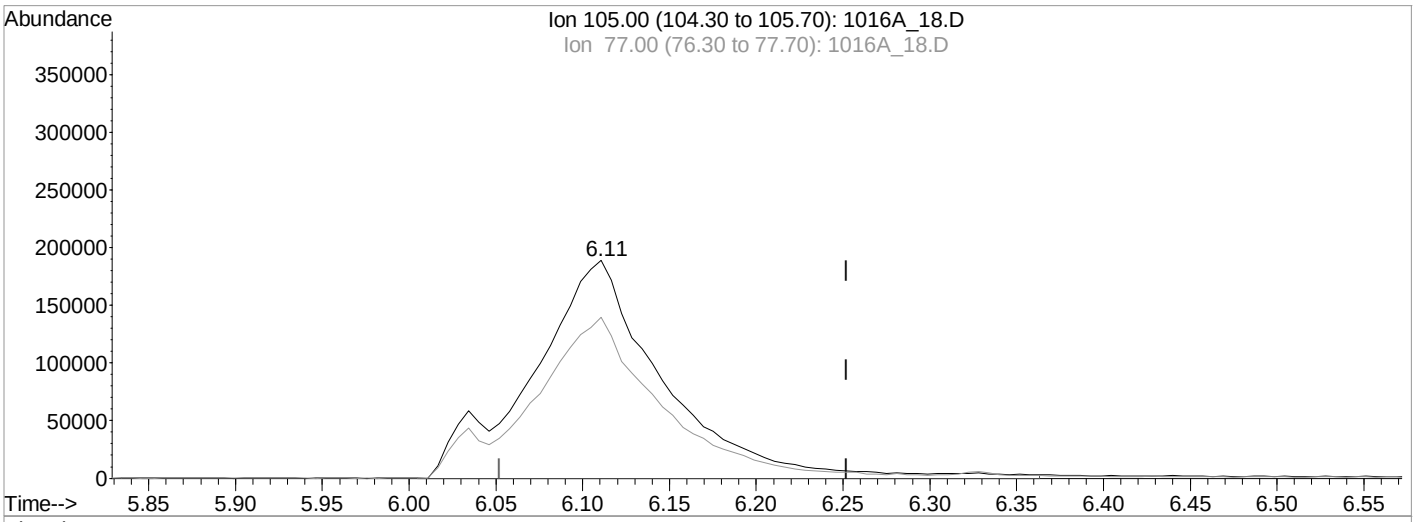
response 960038

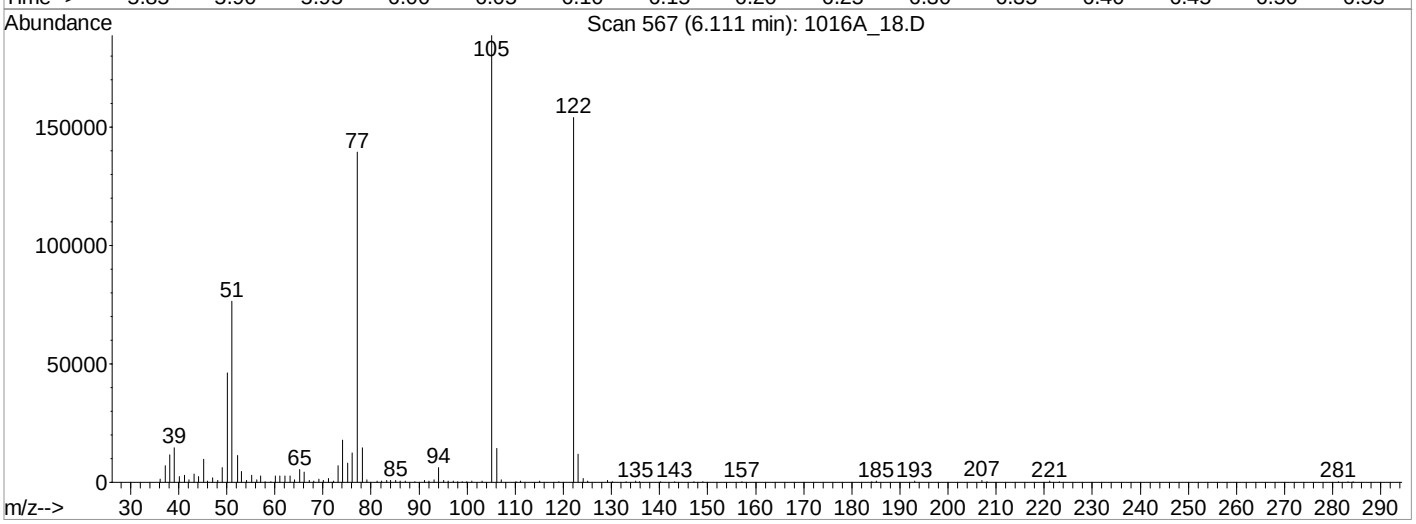
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	74.01
0.00	0.00	0.00
0.00	0.00	0.00

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

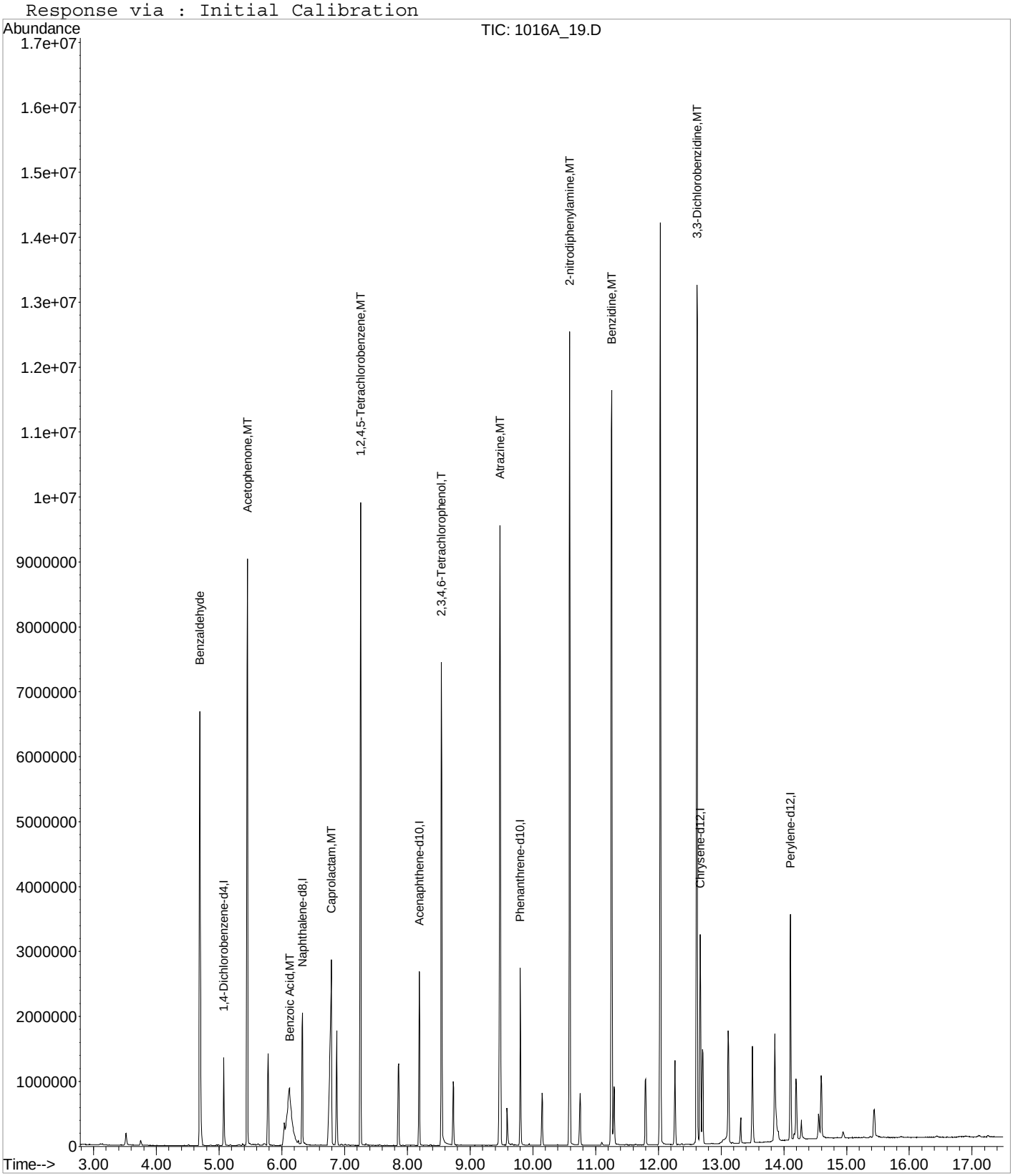
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1717135	46142.7351810 ppb	99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d	
45)	Biphenyl	0.00	154	0	N.D. d	
46)	2-Chloronaphthalene	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

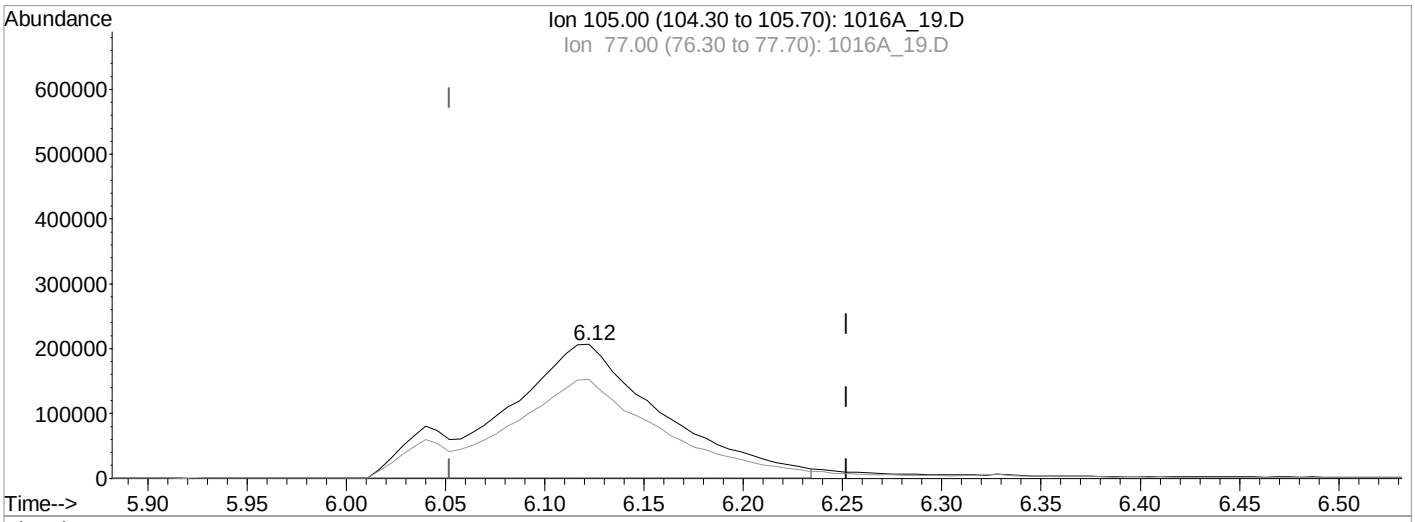
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:07:21 2014
Response via : Initial Calibration

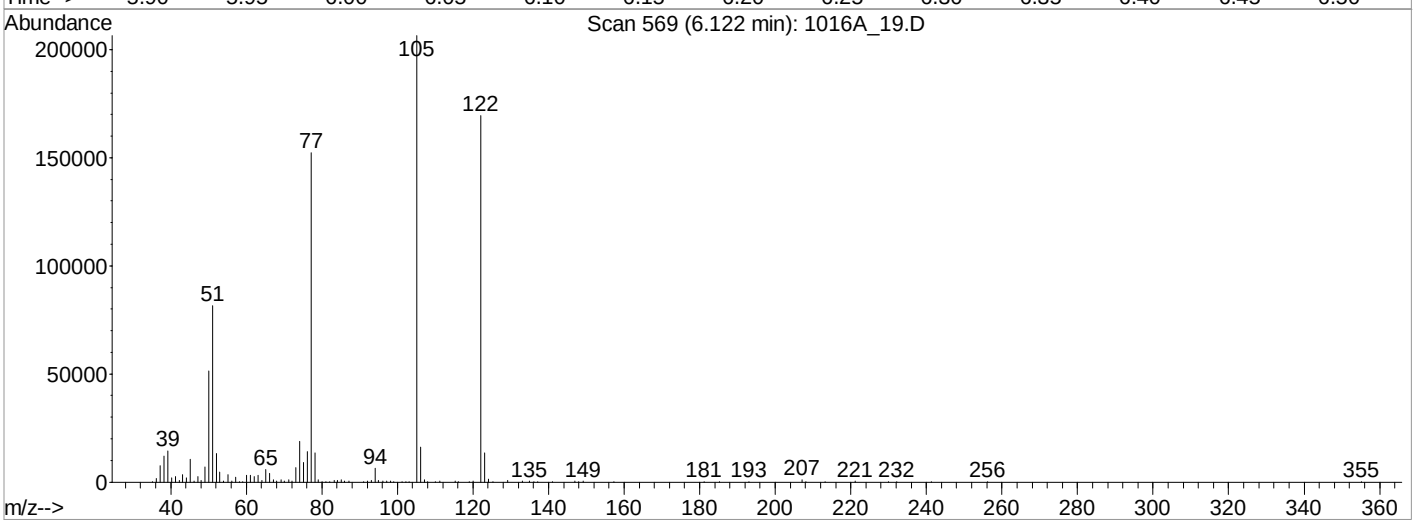


Quantitation Report (Qedit)

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

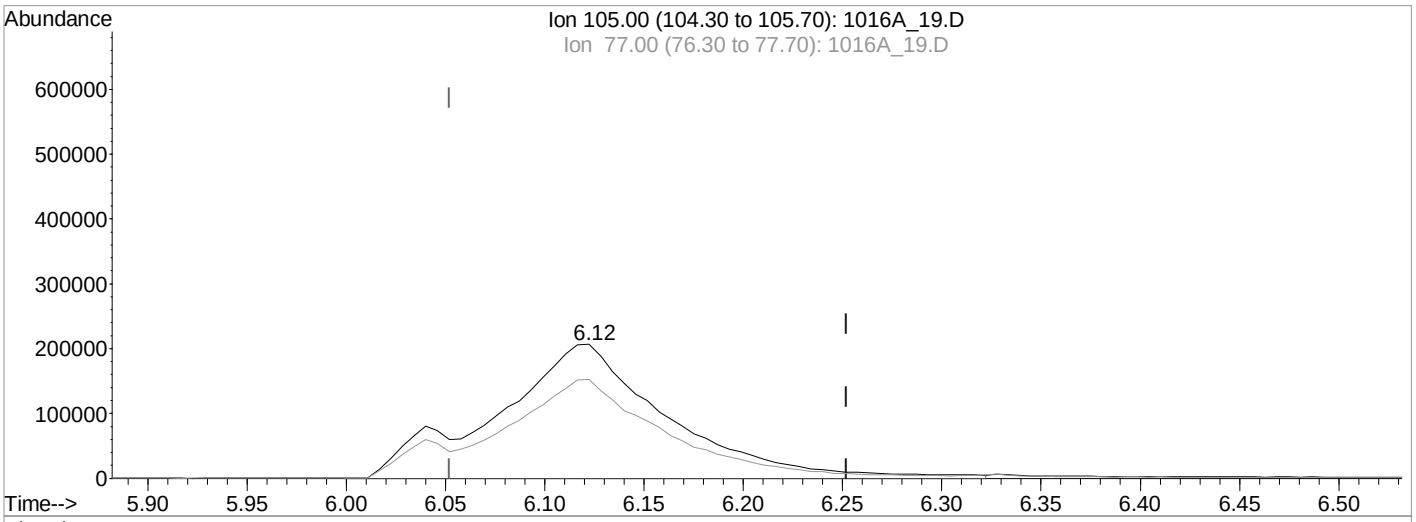
response 1202322

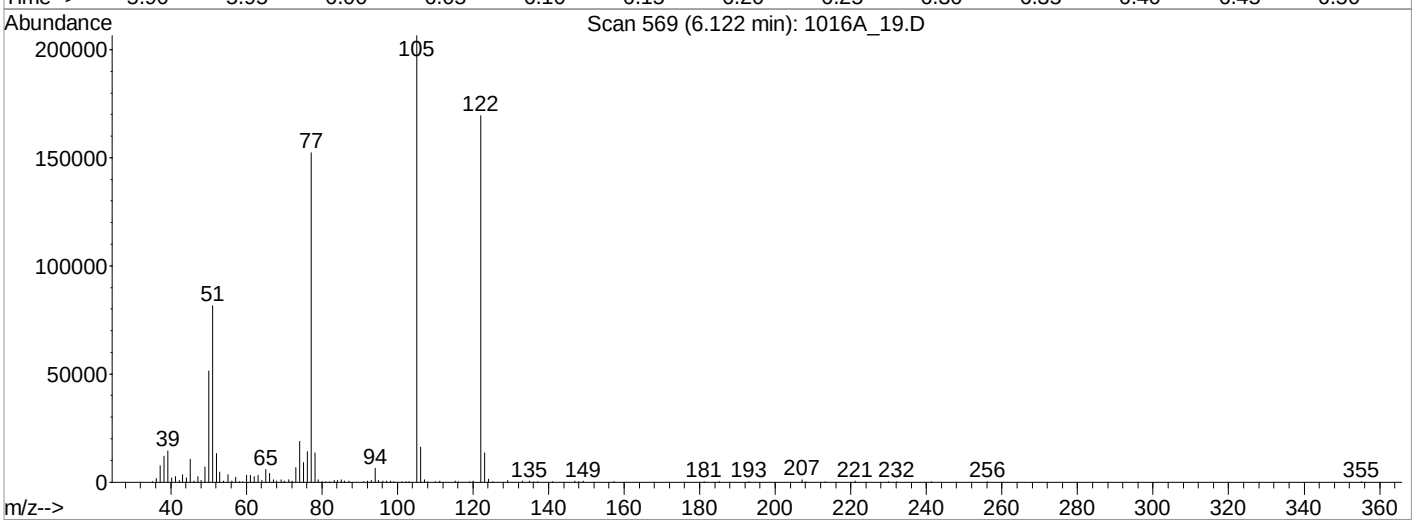
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	72.95
0.00	0.00	0.00
0.00	0.00	0.00

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: L729564

Semi-Volatiles by Method 8270C-SIM
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729564

Lab SampleID.	Client ID
L729564-01	TU904-SB05-NS01
L729564-02	TU904-SB05-NS02
L729564-03	TU904-TRIPBLANK06-NT01
L729564-04	TU904-SB08-NS01
L729564-05	TU904-SB08-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

12065 Lebanon Rd
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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Workgroup: **WG750917**
Description: **PAHs by SIM by Method 8270C-SIM (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729564-01 1x	10/23/2014	10/28/2014	10/29/2014
L729564-02 1x	10/23/2014	10/28/2014	10/29/2014
L729564-04 1x	10/23/2014	10/28/2014	10/29/2014
L729564-05 1x	10/23/2014	10/28/2014	10/29/2014

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
SVGCMS7	LCS WG750917	LCS WG750917	1029A_05.D	10/29/2014	10:54 AM
SVGCMS7	LCSD WG750917	LCSD WG750917	1029A_06.D	10/29/2014	11:16 AM
SVGCMS7	Blank WG750917	Blank WG750917	1029A_07.D	10/29/2014	11:39 AM
SVGCMS7	TU904-SB05-NS01	L729564-01	1029A_17.D	10/29/2014	3:29 PM
SVGCMS7	TU904-SB05-NS02	L729564-02	1029A_18.D	10/29/2014	3:51 PM
SVGCMS7	TU904-SB08-NS01	L729564-04	1029A_19.D	10/29/2014	4:14 PM
SVGCMS7	TU904-SB08-NS02	L729564-05	1029A_20.D	10/29/2014	4:37 PM

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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	< 0.600	
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: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Methylnaphthalene	1	80	72.485	90.6	45.7 - 131	
Acenaphthene	1	80	76.280	95.3	48.7 - 127	
Acenaphthylene	1	80	75.784	94.7	47.9 - 128	
Anthracene	1	80	73.902	92.4	51.3 - 136	
Benzo(a)anthracene	1	80	70.159	87.7	55 - 126	
Benzo(a)pyrene	1	80	48.586	60.7	51.9 - 127	
Benzo(b)fluoranthene	1	80	60.014	75	54 - 125	
Benzo(g,h,i)perylene	1	80	71.854	89.8	53.8 - 136	
Benzo(k)fluoranthene	1	80	65.117	81.4	53.9 - 132	
Chrysene	1	80	70.358	87.9	55.7 - 133	
Dibenz(a,h)anthracene	1	80	74.585	93.2	52.6 - 137	
Fluoranthene	1	80	69.773	87.2	54 - 132	
Fluorene	1	80	75.789	94.7	48.7 - 127	
Indeno(1,2,3-cd)pyrene	1	80	75.493	94.4	53.8 - 138	
Naphthalene	1	80	65.382	81.7	42 - 127	
Phenanthrene	1	80	72.518	90.6	49.6 - 126	
Pyrene	1	80	72.235	90.3	54 - 129	

Parameters in bold text are reported in this SDG

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

Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Methylnaphthalene	1	80	70.705	88.4	45.7 - 131	
Acenaphthene	1	80	74.853	93.6	48.7 - 127	
Acenaphthylene	1	80	73.860	92.3	47.9 - 128	
Anthracene	1	80	73.952	92.4	51.3 - 136	
Benzo(a)anthracene	1	80	69.008	86.3	55 - 126	
Benzo(a)pyrene	1	80	55.359	69.2	51.9 - 127	
Benzo(b)fluoranthene	1	80	59.740	74.7	54 - 125	
Benzo(g,h,i)perylene	1	80	72.781	91	53.8 - 136	
Benzo(k)fluoranthene	1	80	63.978	80	53.9 - 132	
Chrysene	1	80	70.375	88	55.7 - 133	
Dibenz(a,h)anthracene	1	80	75.540	94.4	52.6 - 137	
Fluoranthene	1	80	68.104	85.1	54 - 132	
Fluorene	1	80	74.667	93.3	48.7 - 127	
Indeno(1,2,3-cd)pyrene	1	80	75.684	94.6	53.8 - 138	
Naphthalene	1	80	64.278	80.3	42 - 127	
Phenanthrene	1	80	70.782	88.5	49.6 - 126	
Pyrene	1	80	71.084	88.9	54 - 129	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

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	72.485	90.6	70.705	88.4	45.7 - 131		2.49	20	
Acenaphthene	1	80	76.280	95.3	74.853	93.6	48.7 - 127		1.89	20	
Acenaphthylene	1	80	75.784	94.7	73.860	92.3	47.9 - 128		2.57	20	
Anthracene	1	80	73.902	92.4	73.952	92.4	51.3 - 136		0.07	20	
Benzo(a)anthracene	1	80	70.159	87.7	69.008	86.3	55 - 126		1.66	20	
Benzo(a)pyrene	1	80	48.586	60.7	55.359	69.2	51.9 - 127		13	20	
Benzo(b)fluoranthene	1	80	60.014	75	59.740	74.7	54 - 125		0.46	20	
Benzo(g,h,i)perylene	1	80	71.854	89.8	72.781	91	53.8 - 136		1.28	20	
Benzo(k)fluoranthene	1	80	65.117	81.4	63.978	80	53.9 - 132		1.76	20	
Chrysene	1	80	70.358	87.9	70.375	88	55.7 - 133		0.03	20	
Dibenz(a,h)anthracene	1	80	74.585	93.2	75.540	94.4	52.6 - 137		1.27	20	
Fluoranthene	1	80	69.773	87.2	68.104	85.1	54 - 132		2.42	20	
Fluorene	1	80	75.789	94.7	74.667	93.3	48.7 - 127		1.49	20	
Indeno(1,2,3-cd)pyrene	1	80	75.493	94.4	75.684	94.6	53.8 - 138		0.25	20	
Naphthalene	1	80	65.382	81.7	64.278	80.3	42 - 127		1.7	20	
Phenanthrene	1	80	72.518	90.6	70.782	88.5	49.6 - 126		2.42	20	
Pyrene	1	80	72.235	90.3	71.084	88.9	54 - 129		1.61	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1029A_04
Analyzed: 10/29/14 103100

	ACE		CHR		NAP		PER	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	29101	7.45	41630	11.67	54489	5.51	47882	13.29
Upper Limit	58200	7.95	83300	12.17	109000	6.01	95800	13.79
Lower Limit	14600	6.95	20800	11.17	27200	5.01	23900	12.79
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729564-01	28214	7.45	39491	11.66	53719	5.51	45705	13.28
L729564-02	28730	7.45	40257	11.66	54542	5.51	46805	13.28
L729564-04	27701	7.44	39208	11.66	52845	5.51	45366	13.27
L729564-05	27849	7.44	38628	11.66	51819	5.51	44790	13.28
LCSD WG750917	28156	7.45	40353	11.67	52829	5.51	46449	13.29
LCS WG750917	28245	7.44	40472	11.67	52869	5.51	47009	13.29
BLANK WG750917	28737	7.45	41039	11.67	53946	5.51	47577	13.29

Legend:
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1029A_04
Analyzed: 10/29/14 103100

	ACE		PHEN	
	Response	**RT**	**Response**	**RT**
12 Hr. Std	29101	7.45	47697	8.99
Upper Limit	58200	7.95	95400	9.49
Lower Limit	14600	6.95	23800	8.49
Sample ID	**Response**	**RT**	**Response**	**RT**
L729564-01	28214	7.45	43294	8.99
L729564-02	28730	7.45	44396	8.99
L729564-04	27701	7.44	43078	8.99
L729564-05	27849	7.44	43166	8.99
LCSD WG750917	28156	7.45	45271	8.99
LCS WG750917	28245	7.44	45343	8.99
BLANK WG750917	28737	7.45	44693	8.99

Legend:
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Surrogate Summary

			2-Fluorobiphenyl		Nitrobenzene-d5		p-Terphenyl-d14	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729564-01	SVGCMS7	1029A_17	0.0704	84.6	0.0707	84.9	0.0588	70.5
L729564-02	SVGCMS7	1029A_18	0.0688	82.6	0.0697	83.7	0.0576	69.1
L729564-04	SVGCMS7	1029A_19	0.0712	85.5	0.0731	87.7	0.0581	69.7
L729564-05	SVGCMS7	1029A_20	0.0627	75.3	0.0653	78.4	0.0505	60.6
LCS WG750917	SVGCMS7	1029A_05	0.0798	95.8	0.0788	94.6	0.0676	81.2
LCSD WG750917	SVGCMS7	1029A_06	0.0761	91.3	0.0738	88.7	0.0665	79.8
BLANK WG750917	SVGCMS7	1029A_07	0.0780	93.7	0.0813	97.6	0.0659	79.1

2-Fluorobiphenyl --2-FLUOROBIPHENYL	True Value: 0.0833 ppm	Limits: 38.2 - 135
Nitrobenzene-d5 --NITROBENZENE-D5	True Value: 0.0833 ppm	Limits: 28.4 - 151
p-Terphenyl-d14 --P-TERPHENYL-D14	True Value: 0.0833 ppm	Limits: 34.20 - 141

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Quality Control Summary
SDG: L729564
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750917**
Analysis Date:	10/29/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/26/2014
Sample Numbers:	L729564-01, -02, -04, -05		

Instrument Performance Summary

FileID:1029A_01.D Date:10/29/2014 Time: 9:19 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 442	27.3
68	Less than 2% of mass 69	0.0
70	Less than 2% of mass 69	0.6
127	10 - 80% of mass 442	34.5
197	Less than 2% of mass 198	0.0
198	50 - 100% of mass 442	62.7
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 442	20.0
365	1 - 100% of mass 442	3.6
441	Present, but less than mass 443	81.2
442	50 - 100% of mass 442	100.0
443	15 - 24% of mass 442	19.3

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG750917	LCS WG750917	1029A_05.D	10/29/2014	10:54 AM
LCSD WG750917	LCSD WG750917	1029A_06.D	10/29/2014	11:16 AM
Blank WG750917	Blank WG750917	1029A_07.D	10/29/2014	11:39 AM
TU904-SB05-NS01	L729564-01	1029A_17.D	10/29/2014	3:29 PM
TU904-SB05-NS02	L729564-02	1029A_18.D	10/29/2014	3:51 PM
TU904-SB08-NS01	L729564-04	1029A_19.D	10/29/2014	4:14 PM
TU904-SB08-NS02	L729564-05	1029A_20.D	10/29/2014	4:37 PM

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Quality Control Summary
SDG: L729564
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: L729564
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C-SIM
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: SVGCMS7

Method Name : SS07J22N.M Date : 10/29/2014
FileName : 1029A_04.D Time : 10:31 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Naphthalene	1.0346	0.9256	10.5
2-Methylnaphthalene	0.6559	0.6381	2.72
Acenaphthylene	1.6649	1.7359	4.26
Acenaphthene	1.1226	1.1742	4.6
Fluorene	1.2682	1.3197	4.06
Phenanthrene	1.0880	1.0755	1.15
Anthracene	1.0450	1.0816	3.5
Fluoranthene	1.0951	1.0440	4.67
Pyrene	1.2188	1.0850	11
Benzo(a)anthracene	1.0753	1.0407	3.21
Chrysene	1.0455	1.0191	2.53
Benzo(b)fluoranthene	1.1011	0.9699	11.9
Benzo(k)fluoranthene	1.0187	0.8578	15.8
Benzo(a)pyrene	0.8925	0.8040	9.92
Indeno(1,2,3-cd)pyrene	1.1061	1.1726	6.01
Dibenz(a,h)anthracene	0.9390	0.9849	4.89
Benzo(g,h,i)perylene	0.9444	0.9766	3.42

*** - calibrated by linear regression*

Raw Data

SIM SS Extractions Benchsheet

Batch #: WG750917

Analyst: DLT573 **Prep Start Date/Time:** 10/28/14 11:40:24 **Prep End Date/Time:** 10/29/14 08:24:09

Na2SO4: 14I15522 Amt. Used: 5 Exp. Date:03/15/15 **MeCl2:** 14J11832 Amt. Used: 20 Exp. Date:04/11/15 **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(L729568-02)		15	Clay	20	30	Colorless	
MSD(L729568-02)		15	Clay	20	30	Colorless	
1. L729563-01		15	Sand	20	30	Colorless	EDD/QC4/DOD
2. L729563-02		15	Sand	20	30	Colorless	EDD/QC4/DOD
3. L729563-04		15	Sand	20	30	Colorless	EDD/QC4/DOD
4. L729563-05		15	Sand	20	30	Colorless	EDD/QC4/DOD
5. L729563-06		15	Clay	20	30	Colorless	EDD/QC4/DOD
6. L729564-01		15	Sand	20	30	Colorless	EDD/QC4/DOD
7. L729564-02		15	Sand	20	30	Colorless	EDD/QC4/DOD
8. L729564-04		15	Sand	20	30	Colorless	EDD/QC4/DOD
9. L729564-05		15	Mud	20	30	Colorless	EDD/QC4/DOD
10. L729566-01		15	Sand	20	30	Colorless	EDD/QC4/DOD
11. L729566-02		15	Clay	20	30	Colorless	EDD/QC4/DOD
12. L729566-03		15	Sand	20	30	Colorless	EDD/QC4/DOD
13. L729566-05		15	Sand	20	30	Colorless	EDD/QC4/DOD

14. L729566-06		15	Dirt	20	30	Colorless	EDD/QC4/DOD
15. L729568-01		15	Sand	20	30	Colorless	EDD/QC4/DOD
16. L729568-02		15	Clay	20	30	Colorless	MS/MSD this sample. EDD/QC4/DOD
17. L729568-04		15	Sand	20	30	Colorless	EDD/QC4/DOD
18. L729568-05		15	Mud	20	30	Colorless	EDD/QC4/DOD
19. L729728-01		15	Sand	20	30	Yellow	
20. L729728-02		15	Sand	20	30	Yellow	

Comments:
DOD: ESC25482

Reviewed By:KMF280 on 10/29/14 08:24:09

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : SVCOMPM
Released By : Kelly Fox
Date Released : 10/30/2014 7:17:29 AM
Run ID : 102914A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1029A_01	TUNE DFTPP 2 PPM 14J03433	TUNE525						1	1	10/29/14 0919	"DFTTP TUNE"
2	1029A_01 T	TUNE DFTPP 2 PPM 14J03433								1	10/29/14 0919	
3	1029A_02	DNR ICV SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/29/14 0942	"SIM STD"
4	1029A_03	DNR ICV SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/29/14 1005	"SIM STD"
5	1029A_04	ICV SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/29/14 1031	"SIM STD"
6	1029A_05	LCS	SS07J22N	WG750917	SV8270PAHSIM	SS			1	2	10/29/14 1054	"SOIL 14J05507/14J23454"
7	1029A_06	LCSD	SS07J22N	WG750917	SV8270PAHSIM	SS			1	2	10/29/14 1116	"SOIL 14J05507/14J23454"
8	1029A_07	BLANK	SS07J22N	WG750917	SV8270PAHSIM	SS			1	2	10/29/14 1139	"SOIL 14J05507/14J23454"
9	1029A_08	L729001-16	SS07J22N	WG750399	SV8270PAHSIMD	SS	NORWINDAAK	AK	20	40	10/29/14 1202	"SOIL 14J05507/14J23454"
10	1029A_09	L729019-02	SS07J22N	WG750399	SV8270PAHSIMD	SS	NORWINDAAK	AK	20	40	10/29/14 1225	"SOIL 14J05507/14J23454"
11	1029A_10	L729001-12	SS07J22N	WG750399	SV8270PAHSIMD	SS	NORWINDAAK	AK	20	40	10/29/14 1248	"SOIL 14J05507/14J23454"
12	1029A_11	L729019-13	SS07J22N	WG750399	SV8270PAHSIMD	SS	NORWINDAAK	AK	20	40	10/29/14 1311	"SOIL 14J05507/14J23454"
13	1029A_12	L729563-01	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1334	"SOIL 14J05507/14J23454"
14	1029A_13	L729563-02	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1357	"SOIL 14J05507/14J23454"
15	1029A_14	L729563-04	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1420	"SOIL 14J05507/14J23454"
16	1029A_15	L729563-05	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1443	"SOIL 14J05507/14J23454"
17	1029A_16	L729563-06	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1506	"SOIL 14J05507/14J23454"
18	1029A_17	L729564-01	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1529	"SOIL 14J05507/14J23454"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : SVCOMPM
Released By : Kelly Fox
Date Released : 10/30/2014 7:17:29 AM
Run ID : 102914A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
19	1029A_18	L729564-02	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1551	"SOIL 14J05507/14J23454"
20	1029A_19	L729564-04	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1614	"SOIL 14J05507/14J23454"
21	1029A_20	L729564-05	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1637	"SOIL 14J05507/14J23454"
22	1029A_21	L729566-01	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1700	"SOIL 14J05507/14J23454"
23	1029A_22	L729566-02	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1723	"SOIL 14J05507/14J23454"
24	1029A_23	L729566-03	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1746	"SOIL 14J05507/14J23454"
25	1029A_24	L729566-05	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1809	"SOIL 14J05507/14J23454"
26	1029A_25	L729566-06	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1832	"SOIL 14J05507/14J23454"
27	1029A_26	L729568-01	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1855	"SOIL 14J05507/14J23454"
28	1029A_27	L729568-02	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1918	"SOIL 14J05507/14J23454"
29	1029A_28	L729568-04	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 1941	"SOIL 14J05507/14J23454"
30	1029A_29	L729568-05	SS07J22N	WG750917	SV8270PAHSIM	SS	URSTAZ	NM	1	2	10/29/14 2003	"SOIL 14J05507/14J23454"
31	1029A_30	L729728-01	SS07J22N	WG750917	SV8270PAHSIM	SS	OXYGJCO	CO	1	2	10/29/14 2026	"SOIL 14J05507/14J23454"
32	1029A_31	L729728-02	SS07J22N	WG750917	SV8270PAHSIM	SS	OXYGJCO	CO	1	2	10/29/14 2049	"SOIL 14J05507/14J23454"

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 01.D Vial: 2
Acq On : 29 Oct 2014 9:19 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 29 9:37 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)

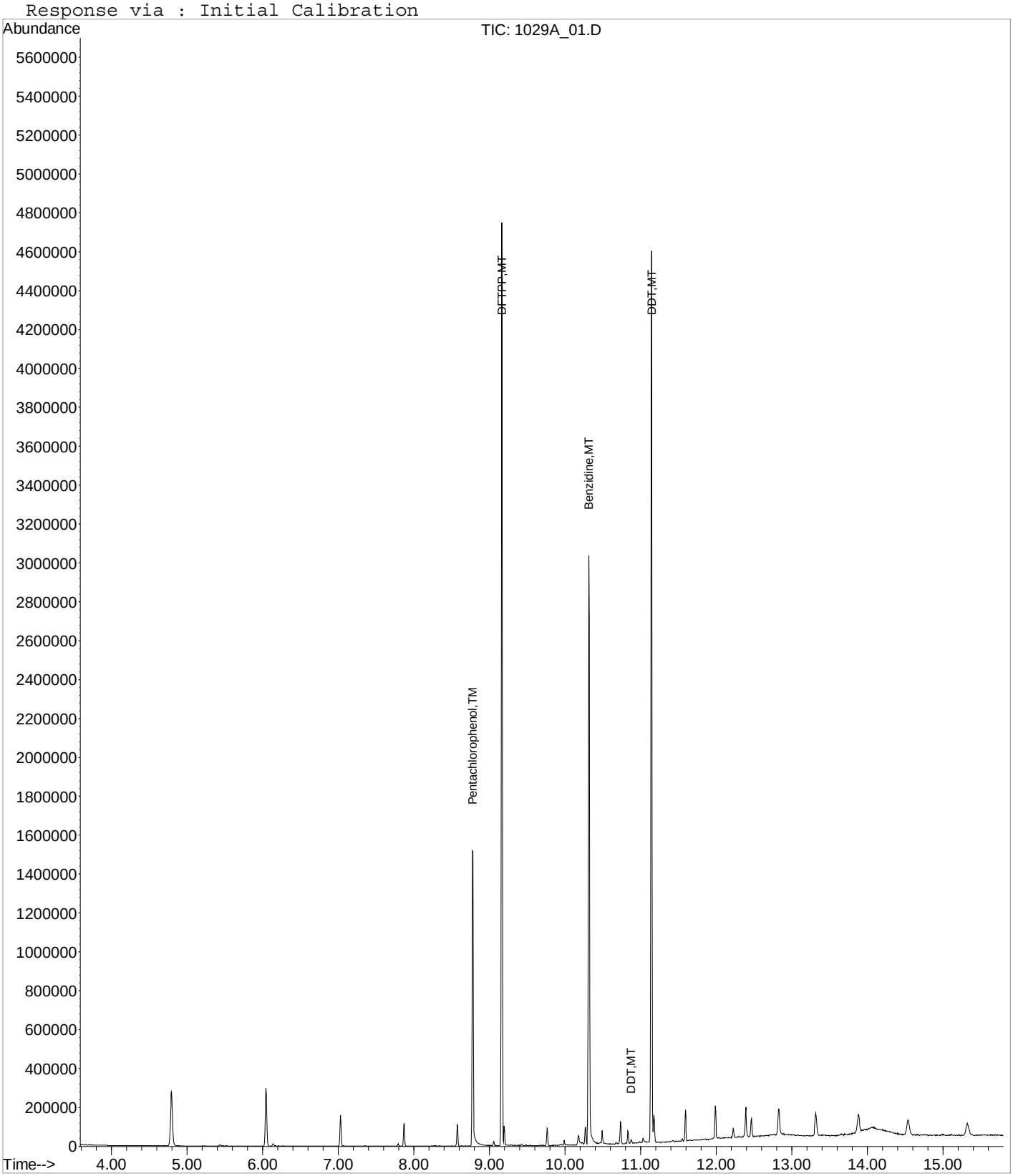
Target Compounds					Qvalue
1) Pentachlorophenol	8.78	264	121798	20.8728347 ug/mL	100
2) DFTPP	9.16	198	359468	48.5842414 ug/mL	100
3) Benzidine	10.32	184	1280171	53.3368137 ug/mL	100
4) DDT	11.15	TIC	4106333	305.1624453 ug/ml	100
5) DDT	10.87	235	3002m	0.2230939 ug/mL	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 01.D Vial: 2
Acq On : 29 Oct 2014 9:19 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 29 9:37 2014 Quant Results File: TUNE525.RES

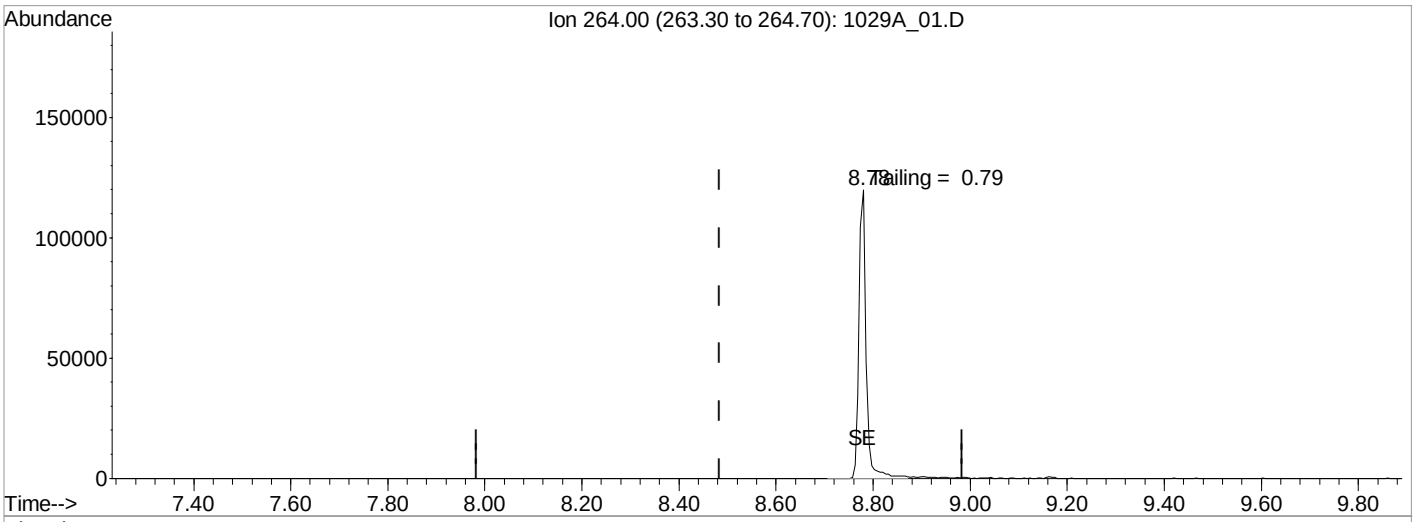
Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Initial Calibration

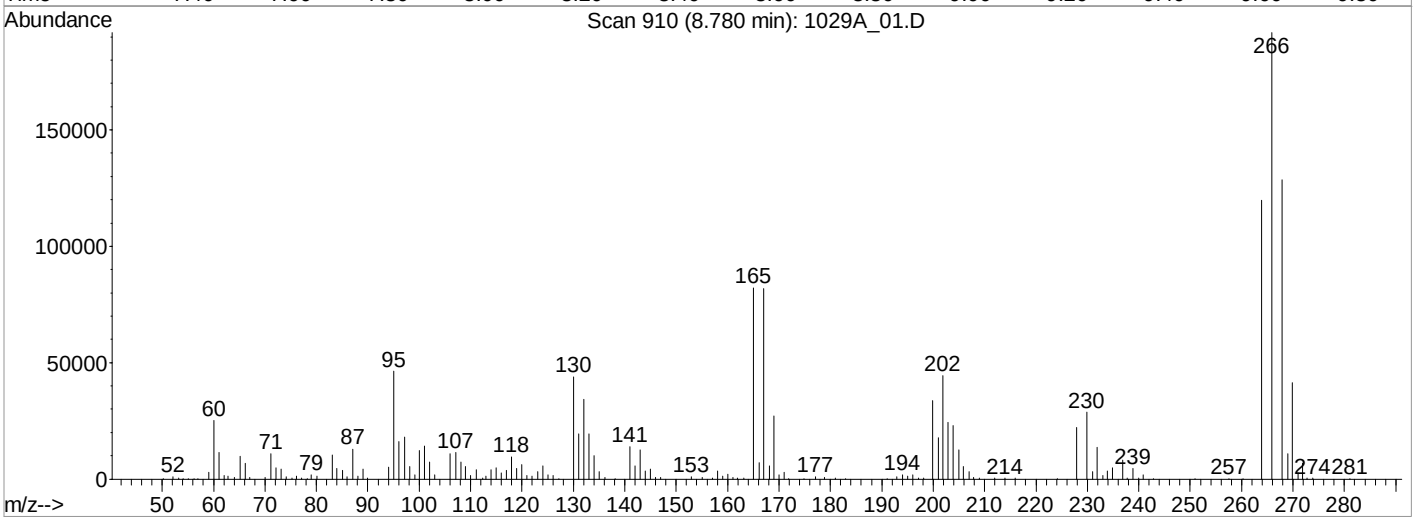


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 01.D Vial: 2
Acq On : 29 Oct 2014 9:19 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 29 9:36 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: 1029A_01.D

(1) Pentachlorophenol (TM)

8.78min (+0.297) 20.8728347 ug/mL

Qvalue = 100

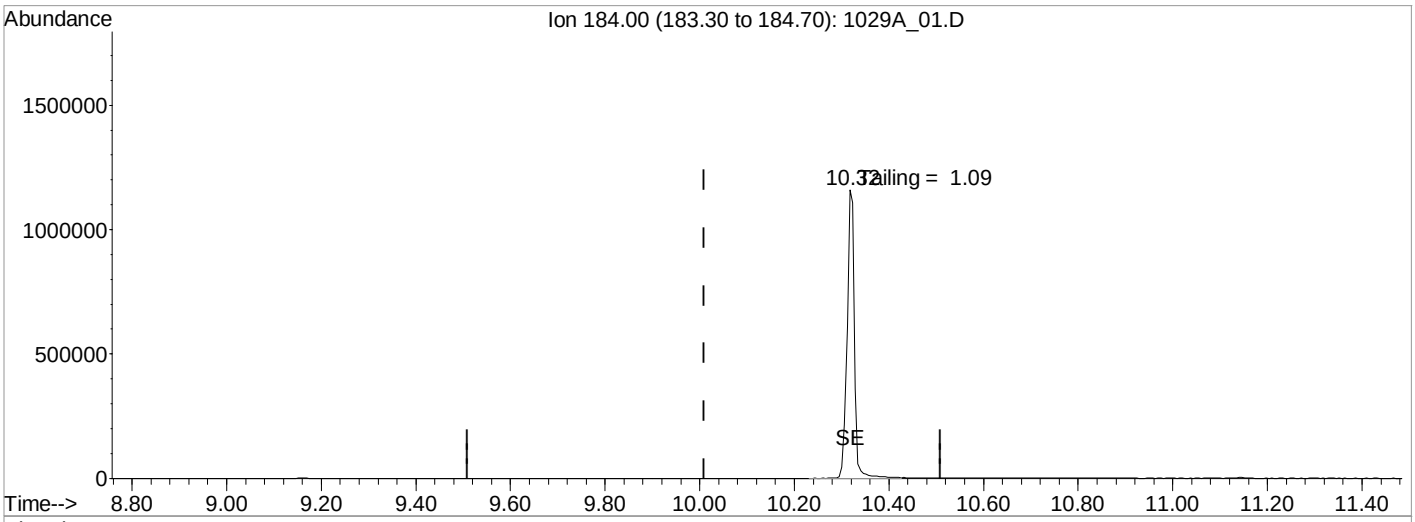
response 121798

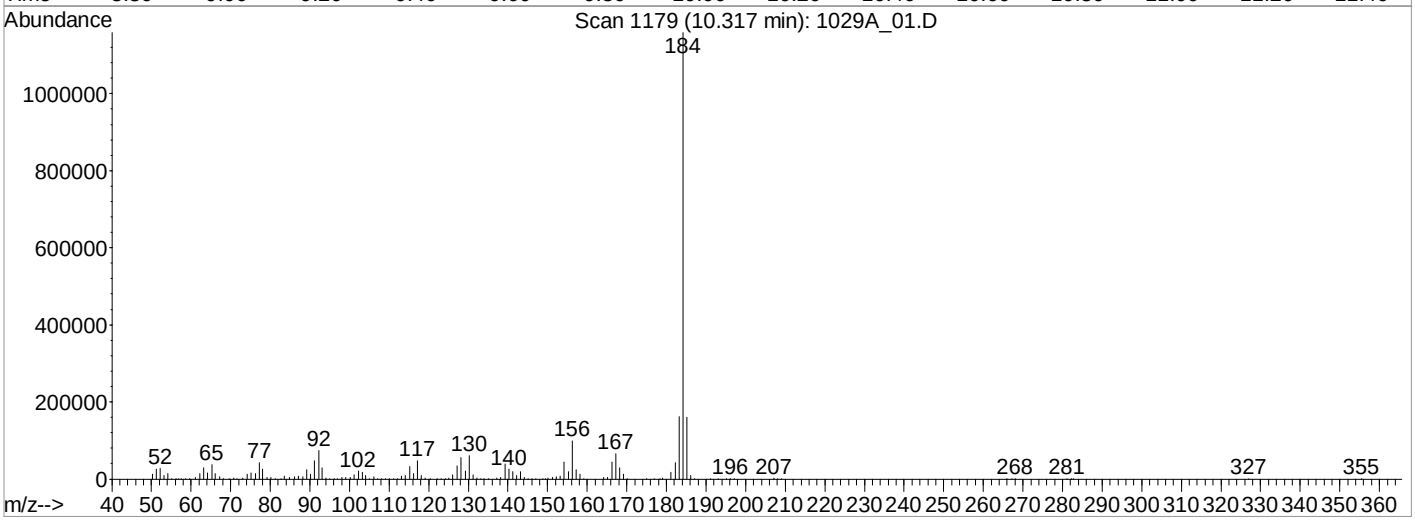
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 01.D Vial: 2
Acq On : 29 Oct 2014 9:19 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 29 9:36 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: 1029A_01.D

(3) Benzidine (MT)

10.32min (+0.309) 53.3368137 ug/mL

Qvalue = 100

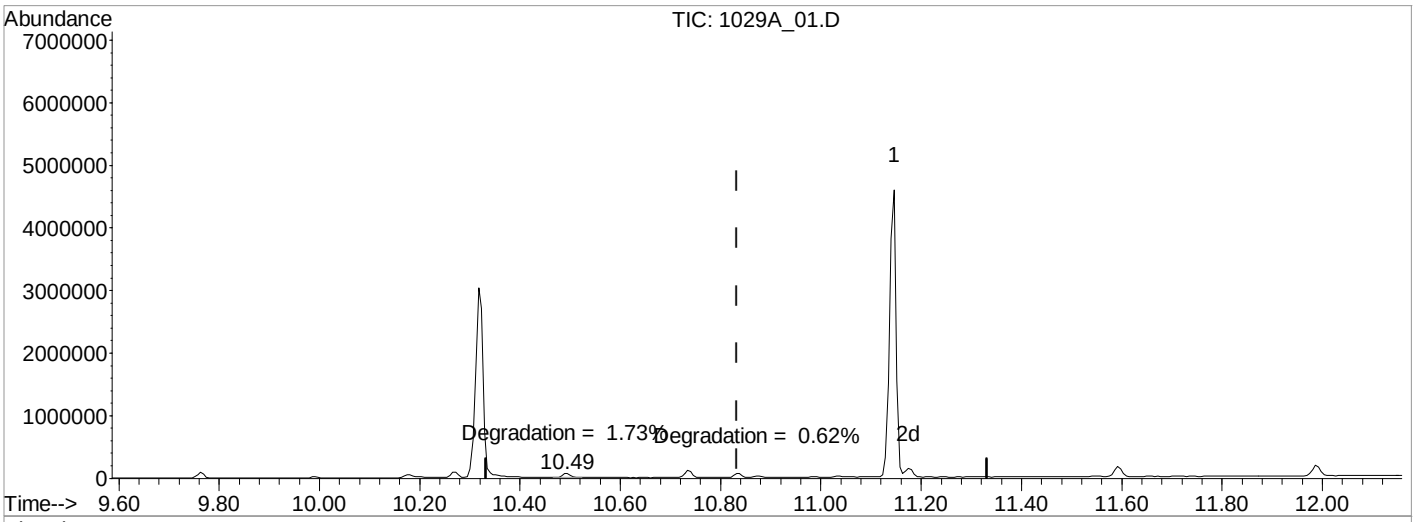
response 1280171

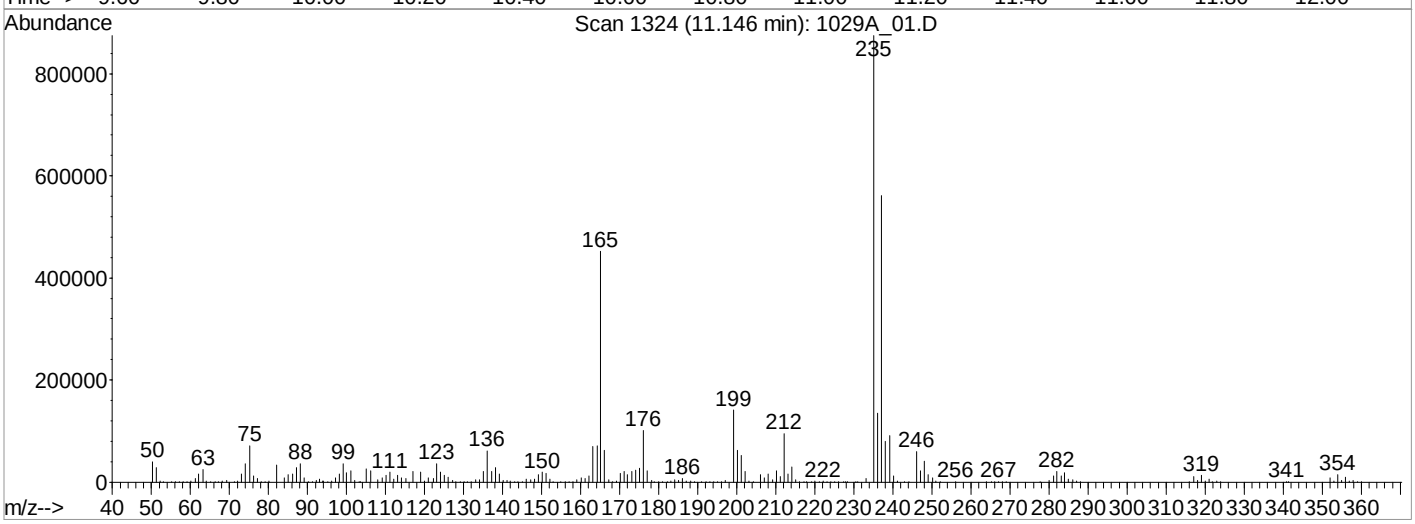
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 01.D Vial: 2
Acq On : 29 Oct 2014 9:19 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 29 9:37 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: 1029A_01.D

(4) DDT (MT)

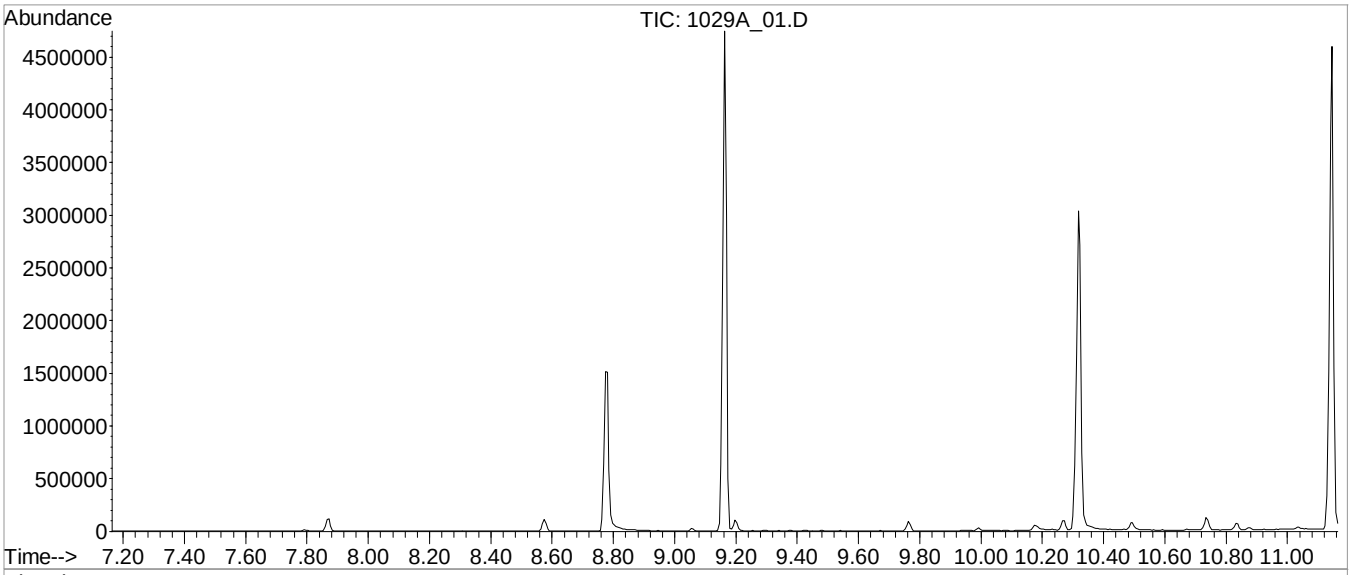
11.15min (+0.314) 305.1624453 ug/ml

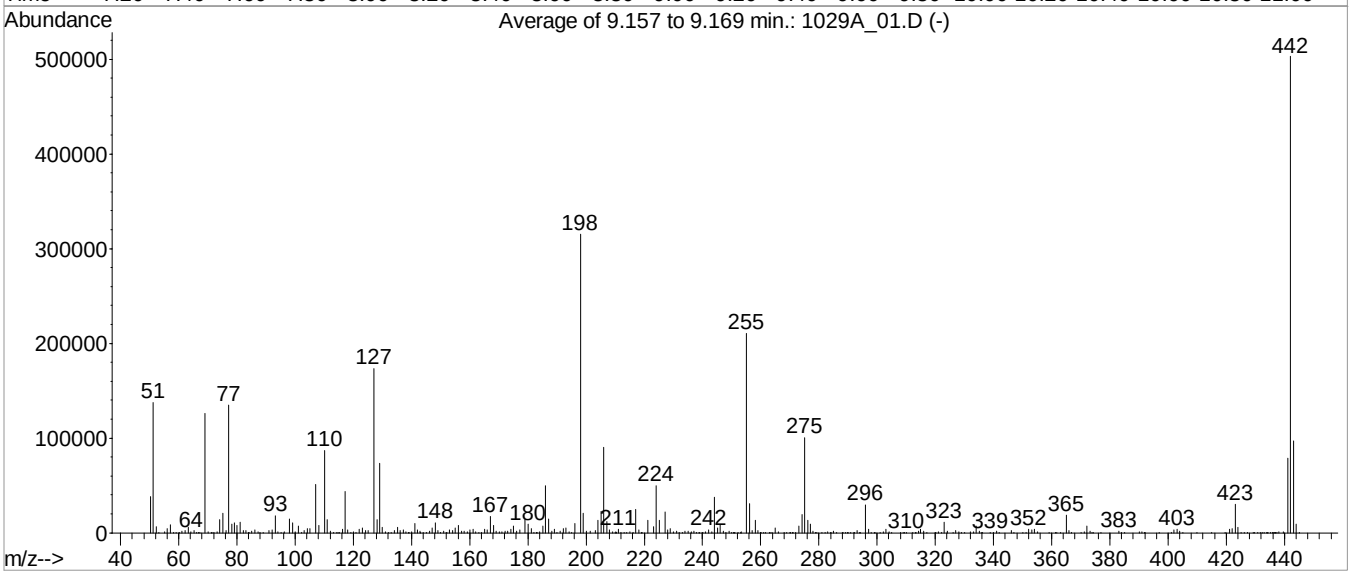
Qvalue = 100

response 4106333

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\102914A\1029A 01.D Vial: 2
Acq On : 29 Oct 2014 9:19 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





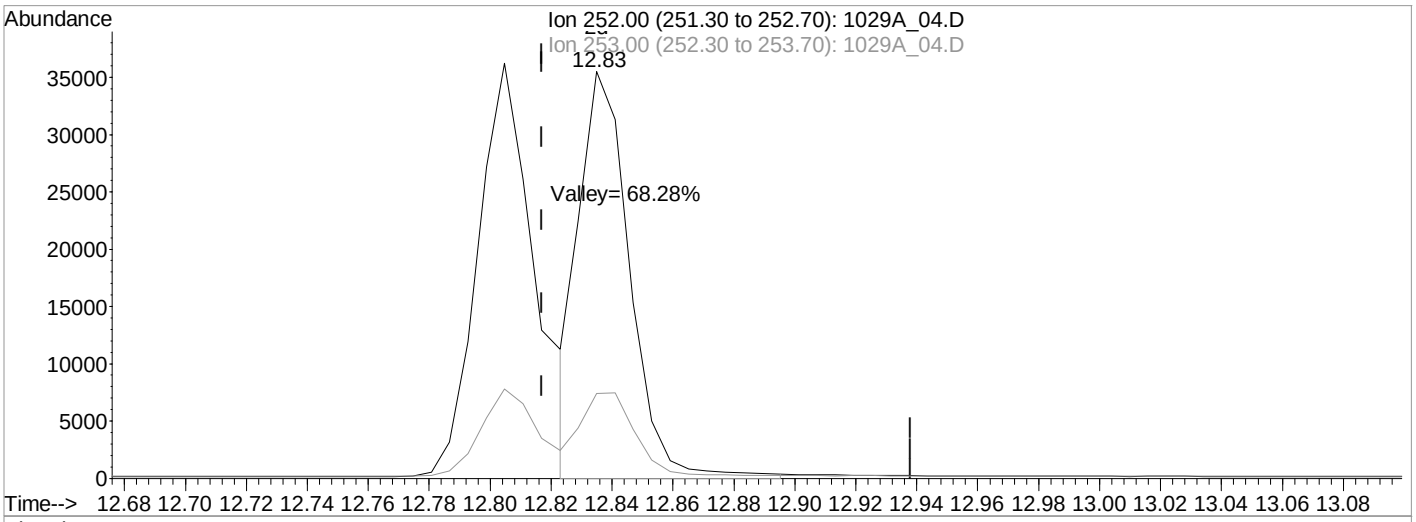
AutoFind: Scans 976, 977, 978; Background Corrected with Scan 970

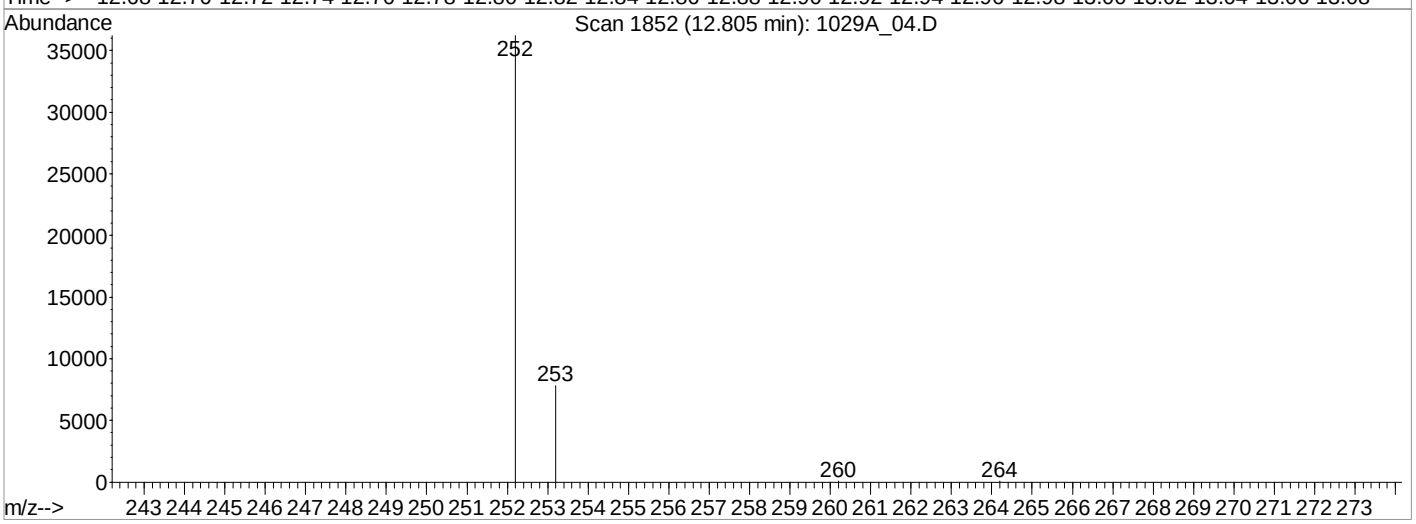
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	27.3	137586	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	794	PASS
127	442	10	80	34.5	173456	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	62.7	315520	PASS
199	198	5	9	6.6	20804	PASS
275	442	10	60	20.0	100509	PASS
365	442	1	100	3.6	18357	PASS
441	443	0.01	100	81.2	78728	PASS
442	442	50	100	100.0	503360	PASS
443	442	15	24	19.3	96978	PASS

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 04.D Vial: 5
Acq On : 29 Oct 2014 10:31 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 29 10:47 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: 1029A_04.D

(23) Benzo(b)fluoranthene (MT)

12.80min (-0.012) 35.2362235 ppb

Qvalue = 98

response 46442

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	21.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 05.D Vial: 6
Acq On : 29 Oct 2014 10:54 am Operator: 280
Sample : LCS 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:12 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	5.51	136	52869	40.00 ppb	-0.04
6) Acenaphthene-d10	7.44	164	28245	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	45343	40.00 ppb	0.00
17) Chrysene-d12	11.67	240	40472	40.00 ppb	-0.01
22) Perylene-d12	13.29	264	47009	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.59	82	15061	78.7827832 ppb	-0.07
Spiked Amount 83.300	Range 28 - 151		Recovery = 94.58%		
7) 2-Fluorobiphenyl	6.70	172	35334	79.8139948 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 95.82%		
19) p-Terphenyl-d14	10.56	244	32277	67.6420388 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 81.20%		

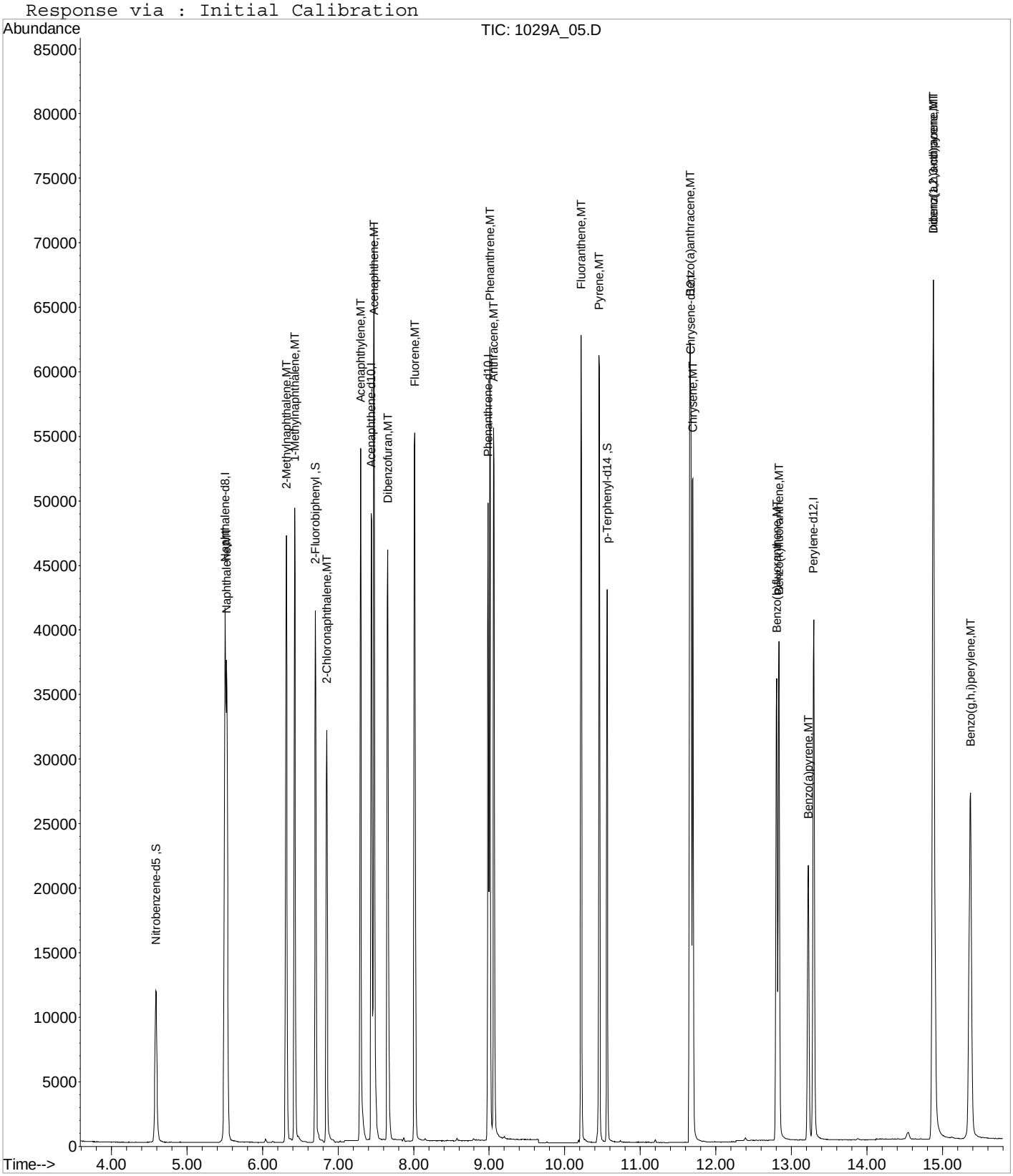
Target Compounds					Qvalue
3) Naphthalene	5.53	128	44704	65.3822040 ppb	100
4) 2-Methylnaphthalene	6.32	142	31421	72.4852372 ppb	96
5) 1-Methylnaphthalene	6.43	142	30154	74.6964139 ppb	99
8) 2-Chloronaphthalene	6.85	162	26384	71.3830967 ppb	96
9) Acenaphthylene	7.30	152	44547	75.7843356 ppb	99
10) Acenaphthene	7.48	153	30232	76.2796296 ppb	93
11) Dibenzofuran	7.66	168	39478	75.7927989 ppb	85
12) Fluorene	8.01	166	33935	75.7893030 ppb	97
14) Phenanthrene	9.01	178	44720	72.5177528 ppb	99
15) Anthracene	9.06	178	43770	73.9023557 ppb	98
16) Fluoranthene	10.22	202	43307	69.7731168 ppb	99
18) Pyrene	10.45	202	44541	72.2352122 ppb	98
20) Benzo(a)anthracene	11.65	228	38166	70.1594497 ppb	95
21) Chrysene	11.70	228	37215	70.3575702 ppb	96
23) Benzo(b)fluoranthene	12.80	252	38829	60.0144614 ppb	100
24) Benzo(k)fluoranthene	12.83	252	38981	65.1170861 ppb	99
25) Benzo(a)pyrene	13.22	252	25482	48.5862589 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.88	276	49067	75.4928667 ppb	86
27) Dibenz(a,h)anthracene	14.88	278	41153	74.5854801 ppb	93
28) Benzo(g,h,i)perylene	15.37	276	39873	71.8542988 ppb	64

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 05.D Vial: 6
Acq On : 29 Oct 2014 10:54 am Operator: 280
Sample : LCS 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 11:12 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 (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 06.D Vial: 7
Acq On : 29 Oct 2014 11:16 am Operator: 280
Sample : LCSD 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 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 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	52829	40.00 ppb	-0.04
6) Acenaphthene-d10	7.45	164	28156	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	45271	40.00 ppb	0.00
17) Chrysene-d12	11.67	240	40353	40.00 ppb	-0.01
22) Perylene-d12	13.29	264	46449	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	14107	73.8483648 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 88.65%		
7) 2-Fluorobiphenyl	6.70	172	33569	76.0668217 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 91.32%		
19) p-Terphenyl-d14	10.56	244	31628	66.4774108 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 79.80%		

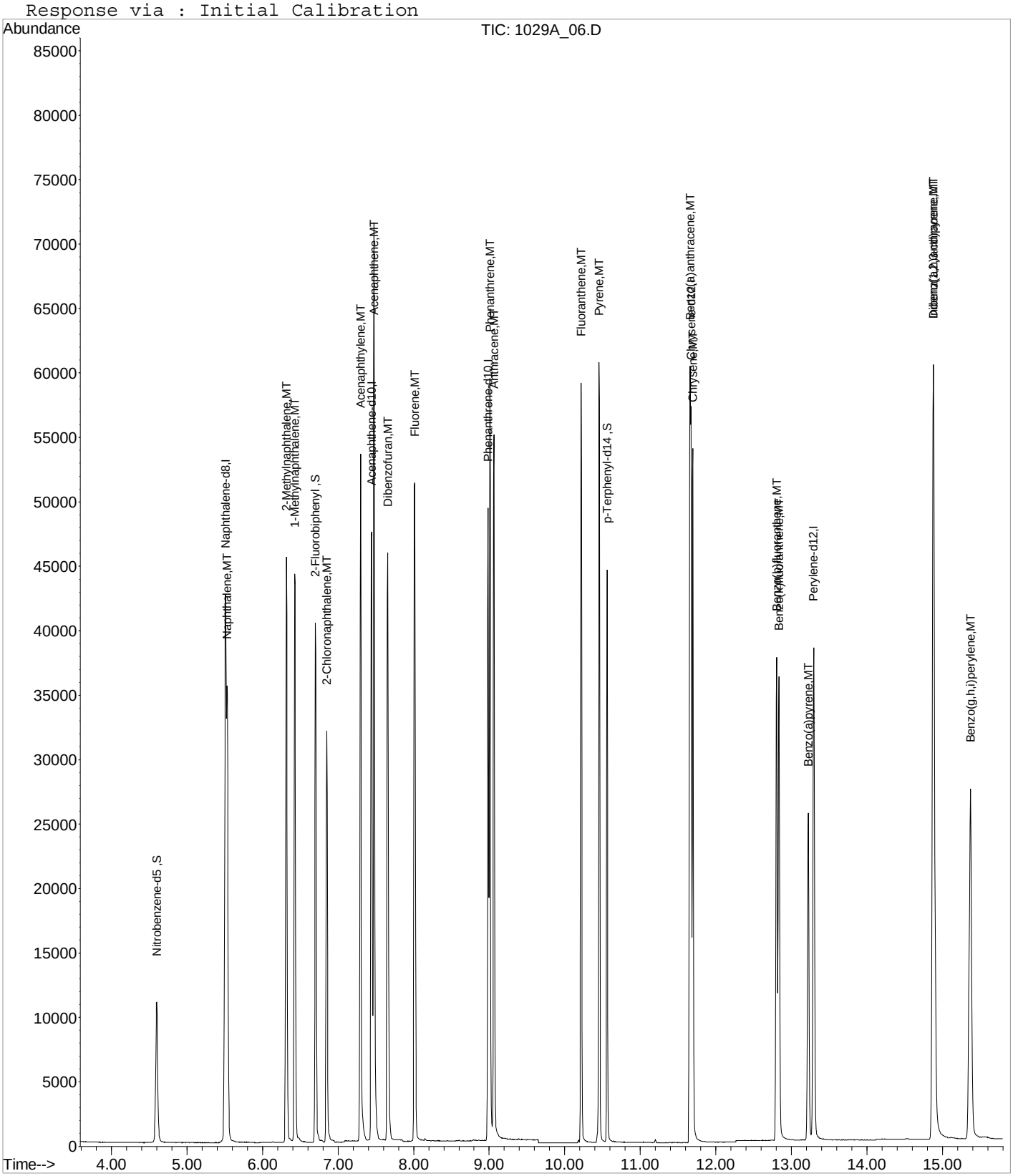
Target Compounds					Qvalue
3) Naphthalene	5.53	128	43916	64.2783402 ppb	100
4) 2-Methylnaphthalene	6.32	142	30626	70.7047427 ppb	100
5) 1-Methylnaphthalene	6.43	142	29560	73.2804213 ppb	94
8) 2-Chloronaphthalene	6.85	162	25884	70.2516873 ppb	92
9) Acenaphthylene	7.30	152	43279	73.8599187 ppb	99
10) Acenaphthene	7.48	153	29573	74.8527400 ppb	94
11) Dibenzofuran	7.66	168	38771	74.6707352 ppb	86
12) Fluorene	8.01	166	33327	74.6666907 ppb	99
14) Phenanthrene	9.01	178	43580	70.7815276 ppb	99
15) Anthracene	9.06	178	43730	73.9522472 ppb	99
16) Fluoranthene	10.22	202	42204	68.1041851 ppb	98
18) Pyrene	10.45	202	43702	71.0835553 ppb	98
20) Benzo(a)anthracene	11.65	228	37429	69.0075472 ppb	93
21) Chrysene	11.70	228	37115	70.3754384 ppb	97
23) Benzo(b)fluoranthene	12.80	252	38191	59.7400224 ppb	99
24) Benzo(k)fluoranthene	12.84	252	37843	63.9782246 ppb	99
25) Benzo(a)pyrene	13.22	252	28688	55.3585702 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.88	276	48605	75.6836386 ppb	84
27) Dibenz(a,h)anthracene	14.88	278	41183	75.5397275 ppb	92
28) Benzo(g,h,i)perylene	15.37	276	39906	72.7807766 ppb	65

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 06.D Vial: 7
Acq On : 29 Oct 2014 11:16 am Operator: 280
Sample : LCSD 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 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 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 07.D Vial: 8
Acq On : 29 Oct 2014 11:39 am Operator: 280
Sample : BLANK 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 12:09 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	53946	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	28737	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	44693	40.00 ppb	0.00
17) Chrysene-d12	11.67	240	41039	40.00 ppb	-0.01
22) Perylene-d12	13.29	264	47577	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	15866	81.3367488 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 97.64%		
7) 2-Fluorobiphenyl	6.71	172	35141	78.0190236 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 93.66%		
19) p-Terphenyl-d14	10.56	244	31878	65.8828670 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 79.09%		

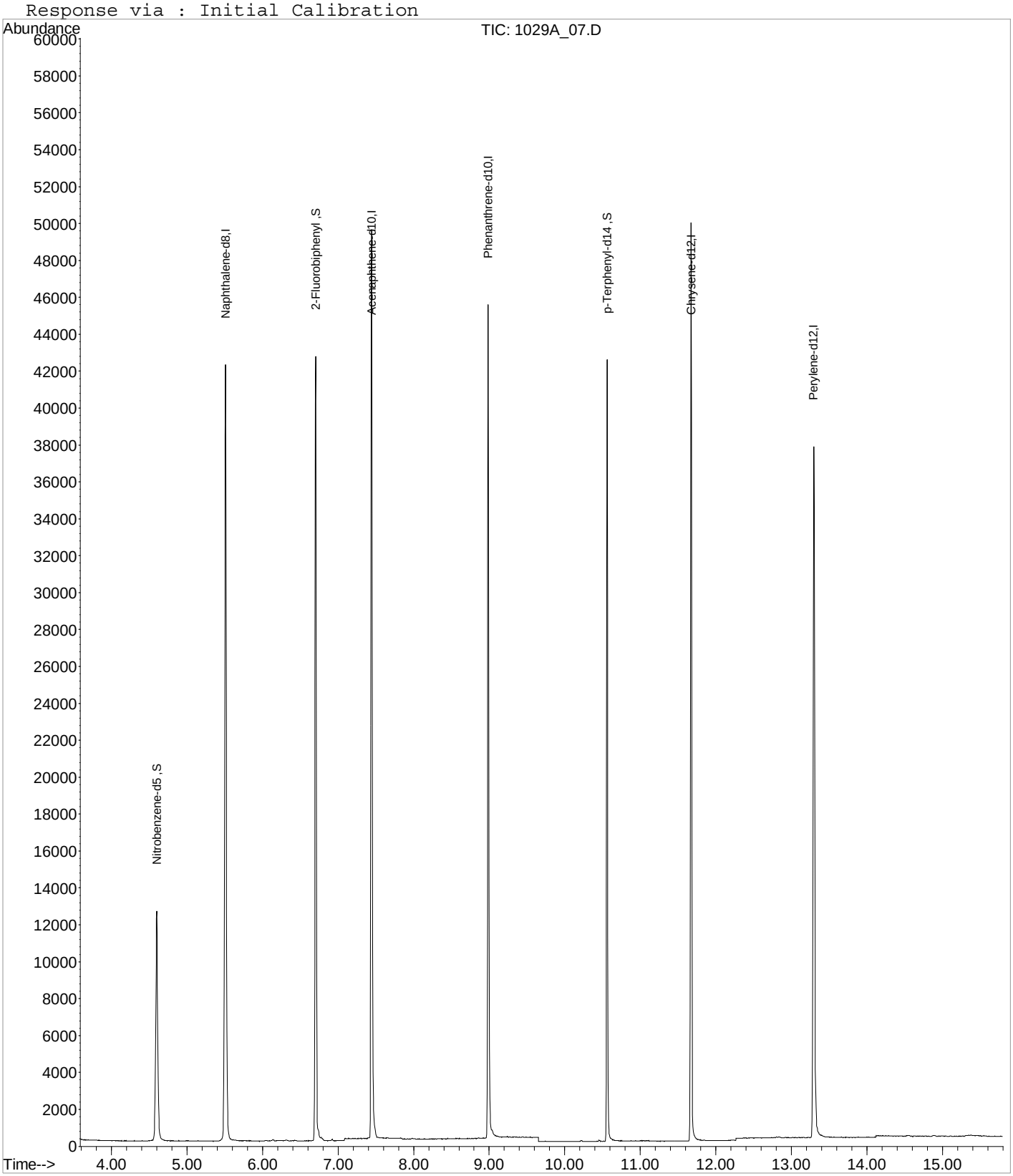
Target Compounds					Qvalue
3) Naphthalene	5.53	128	330	N.D.	
4) 2-Methylnaphthalene	6.18	142	3	N.D.	
5) 1-Methylnaphthalene	6.48	142	1	N.D.	
8) 2-Chloronaphthalene	6.85	162	8	N.D.	
9) Acenaphthylene	7.27	152	4	N.D.	
10) Acenaphthene	7.48	153	13	N.D.	
11) Dibenzofuran	7.66	168	23	N.D.	
12) Fluorene	8.01	166	23	N.D.	
14) Phenanthrene	9.01	178	88	N.D.	
15) Anthracene	9.06	178	29	N.D.	
16) Fluoranthene	10.22	202	53	N.D.	
18) Pyrene	10.45	202	62	N.D.	
20) Benzo(a)anthracene	11.67	228	174	N.D.	
21) Chrysene	11.70	228	53	N.D.	
23) Benzo(b)fluoranthene	12.80	252	58	N.D.	
24) Benzo(k)fluoranthene	12.83	252	52	N.D.	
25) Benzo(a)pyrene	13.18	252	7	N.D.	
26) Indeno(1,2,3-cd)pyrene	14.95	276	10	N.D.	
27) Dibenz(a,h)anthracene	14.88	278	35	N.D.	
28) Benzo(g,h,i)perylene	15.38	276	52	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 07.D Vial: 8
Acq On : 29 Oct 2014 11:39 am Operator: 280
Sample : BLANK 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 29 12:09 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 (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 17.D Vial: 16
Acq On : 29 Oct 2014 3:29 pm Operator: 280
Sample : L729564-01 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:10 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	53719	40.00 ppb	-0.04
6) Acenaphthene-d10	7.45	164	28214	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	43294	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	39491	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	45705	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	13733	70.6994617 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 84.87%		
7) 2-Fluorobiphenyl	6.70	172	31150	70.4403024 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 84.56%		
19) p-Terphenyl-d14	10.56	244	27358	58.7576486 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 70.54%		

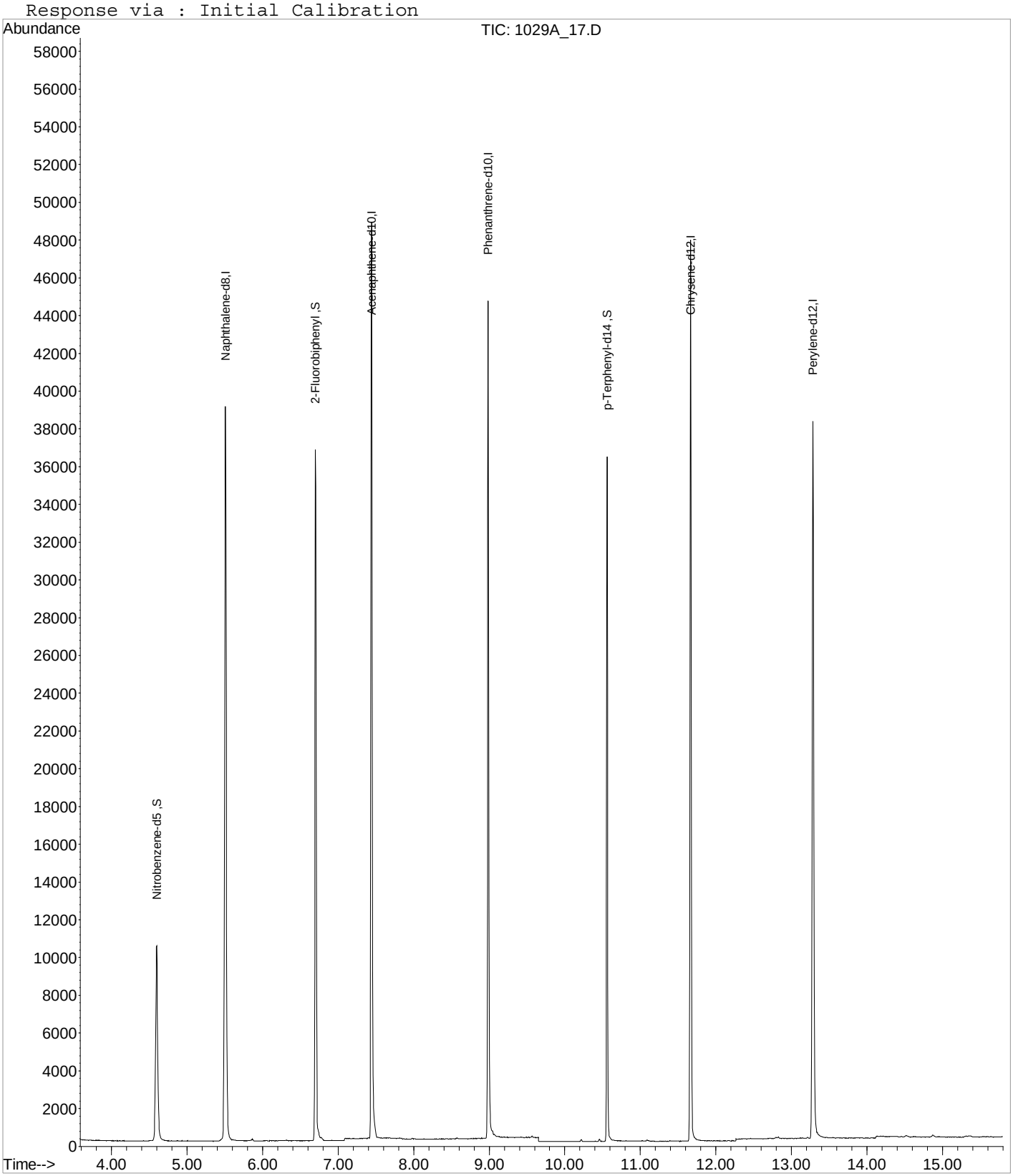
Target Compounds				Qvalue
3) Naphthalene	5.53	128	295	N.D.
4) 2-Methylnaphthalene	6.43	142	14	N.D.
5) 1-Methylnaphthalene	6.43	142	19	N.D.
8) 2-Chloronaphthalene	6.79	162	7	N.D.
9) Acenaphthylene	7.30	152	6	N.D.
10) Acenaphthene	7.47	153	17	N.D.
11) Dibenzofuran	0.00	168	0	N.D.
12) Fluorene	7.86	166	79	N.D.
14) Phenanthrene	9.01	178	149	N.D.
15) Anthracene	9.06	178	32	N.D.
16) Fluoranthene	10.22	202	75	N.D.
18) Pyrene	10.46	202	101	N.D.
20) Benzo(a)anthracene	11.66	228	189	N.D.
21) Chrysene	11.69	228	58	N.D.
23) Benzo(b)fluoranthene	12.79	252	89	N.D.
24) Benzo(k)fluoranthene	12.83	252	65	N.D.
25) Benzo(a)pyrene	13.21	252	60	N.D.
26) Indeno(1,2,3-cd)pyrene	15.07	276	7	N.D.
27) Dibenz(a,h)anthracene	14.87	278	76	N.D.
28) Benzo(g,h,i)perylene	15.36	276	109	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 17.D Vial: 16
Acq On : 29 Oct 2014 3:29 pm Operator: 280
Sample : L729564-01 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:10 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\102914A\1029A 18.D Vial: 17
Acq On : 29 Oct 2014 3:51 pm Operator: 280
Sample : L729564-02 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:10 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	54542	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	28730	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	44396	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	40257	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	46805	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	13746	69.6985731 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 83.67%		
7) 2-Fluorobiphenyl	6.70	172	30965	68.7643403 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 82.55%		
19) p-Terphenyl-d14	10.56	244	27320	57.5595620 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 69.10%		

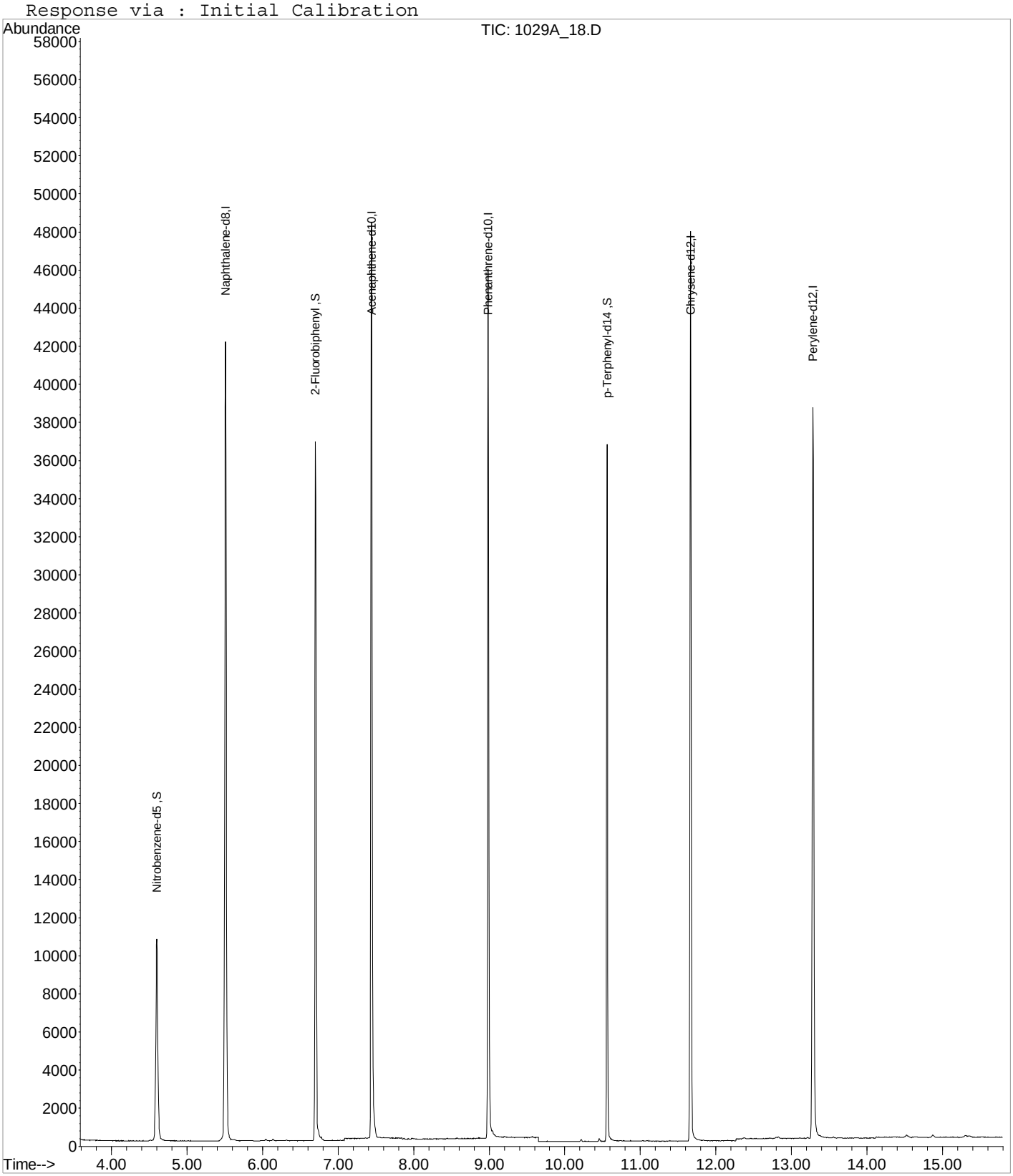
Target Compounds				Qvalue
3) Naphthalene	5.53	128	337	N.D.
4) 2-Methylnaphthalene	6.32	142	26	N.D.
5) 1-Methylnaphthalene	6.32	142	26	N.D.
8) 2-Chloronaphthalene	6.85	162	5	N.D.
9) Acenaphthylene	7.30	152	9	N.D.
10) Acenaphthene	7.47	153	23	N.D.
11) Dibenzofuran	0.00	168	0	N.D.
12) Fluorene	7.86	166	61	N.D.
14) Phenanthrene	9.01	178	132	N.D.
15) Anthracene	9.06	178	30	N.D.
16) Fluoranthene	10.22	202	74	N.D.
18) Pyrene	10.46	202	131	N.D.
20) Benzo(a)anthracene	11.66	228	192	N.D.
21) Chrysene	11.69	228	59	N.D.
23) Benzo(b)fluoranthene	12.79	252	97	N.D.
24) Benzo(k)fluoranthene	12.83	252	86	N.D.
25) Benzo(a)pyrene	13.21	252	79	N.D.
26) Indeno(1,2,3-cd)pyrene	14.87	276	113	N.D.
27) Dibenz(a,h)anthracene	14.87	278	69	N.D.
28) Benzo(g,h,i)perylene	15.36	276	124	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 18.D Vial: 17
Acq On : 29 Oct 2014 3:51 pm Operator: 280
Sample : L729564-02 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:10 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\102914A\1029A 19.D Vial: 18
Acq On : 29 Oct 2014 4:14 pm Operator: 280
Sample : L729564-04 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:10 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	52845	40.00 ppb	-0.03
6) Acenaphthene-d10	7.44	164	27701	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	43078	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	39208	40.00 ppb	-0.02
22) Perylene-d12	13.27	264	45366	40.00 ppb	-0.04

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	13963	73.0724119 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 87.72%		
7) 2-Fluorobiphenyl	6.70	172	30930	71.2380947 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 85.52%		
19) p-Terphenyl-d14	10.56	244	26841	58.0633643 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 69.70%		

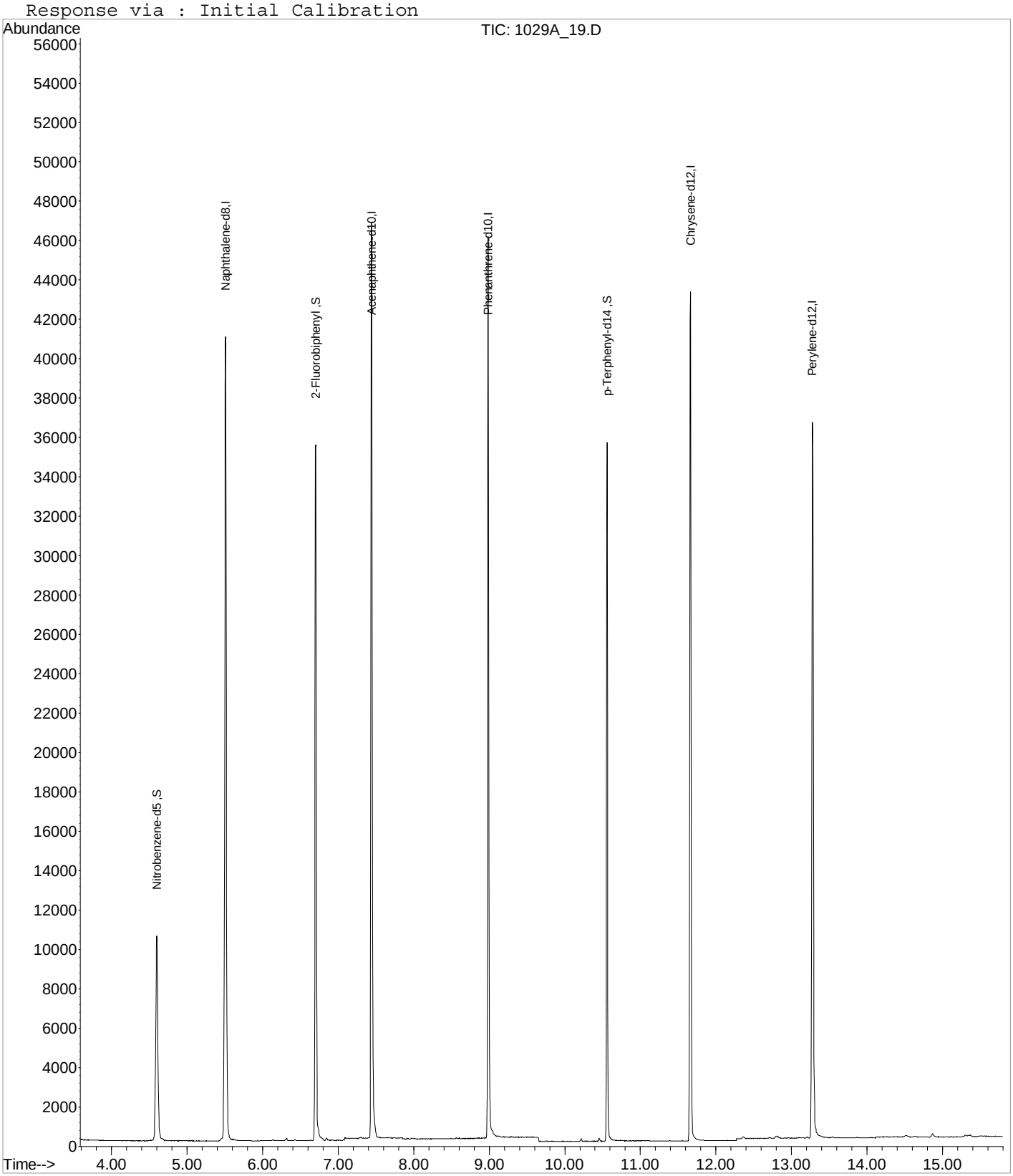
Target Compounds				Qvalue
3) Naphthalene	5.53	128	336	N.D.
4) 2-Methylnaphthalene	6.31	142	89	N.D.
5) 1-Methylnaphthalene	6.43	142	40	N.D.
8) 2-Chloronaphthalene	6.92	162	5	N.D.
9) Acenaphthylene	7.29	152	12	N.D.
10) Acenaphthene	7.47	153	23	N.D.
11) Dibenzofuran	0.00	168	0	N.D.
12) Fluorene	7.93	166	17	N.D.
14) Phenanthrene	9.01	178	143	N.D.
15) Anthracene	9.06	178	41	N.D.
16) Fluoranthene	10.22	202	79	N.D.
18) Pyrene	10.45	202	115	N.D.
20) Benzo(a)anthracene	11.66	228	190	N.D.
21) Chrysene	11.69	228	72	N.D.
23) Benzo(b)fluoranthene	12.79	252	106	N.D.
24) Benzo(k)fluoranthene	12.82	252	88	N.D.
25) Benzo(a)pyrene	13.21	252	74	N.D.
26) Indeno(1,2,3-cd)pyrene	15.05	276	2	N.D.
27) Dibenz(a,h)anthracene	14.87	278	110	N.D.
28) Benzo(g,h,i)perylene	15.35	276	149	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 19.D Vial: 18
Acq On : 29 Oct 2014 4:14 pm Operator: 280
Sample : L729564-04 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:10 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\102914A\1029A 20.D Vial: 19
Acq On : 29 Oct 2014 4:37 pm Operator: 280
Sample : L729564-05 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:11 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	51819	40.00 ppb	-0.04
6) Acenaphthene-d10	7.44	164	27849	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	43166	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	38628	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	44790	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	12240	65.3237333 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 78.42%		
7) 2-Fluorobiphenyl	6.70	172	27384	62.7357514 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 75.31%		
19) p-Terphenyl-d14	10.56	244	22987	50.4729009 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 60.59%		

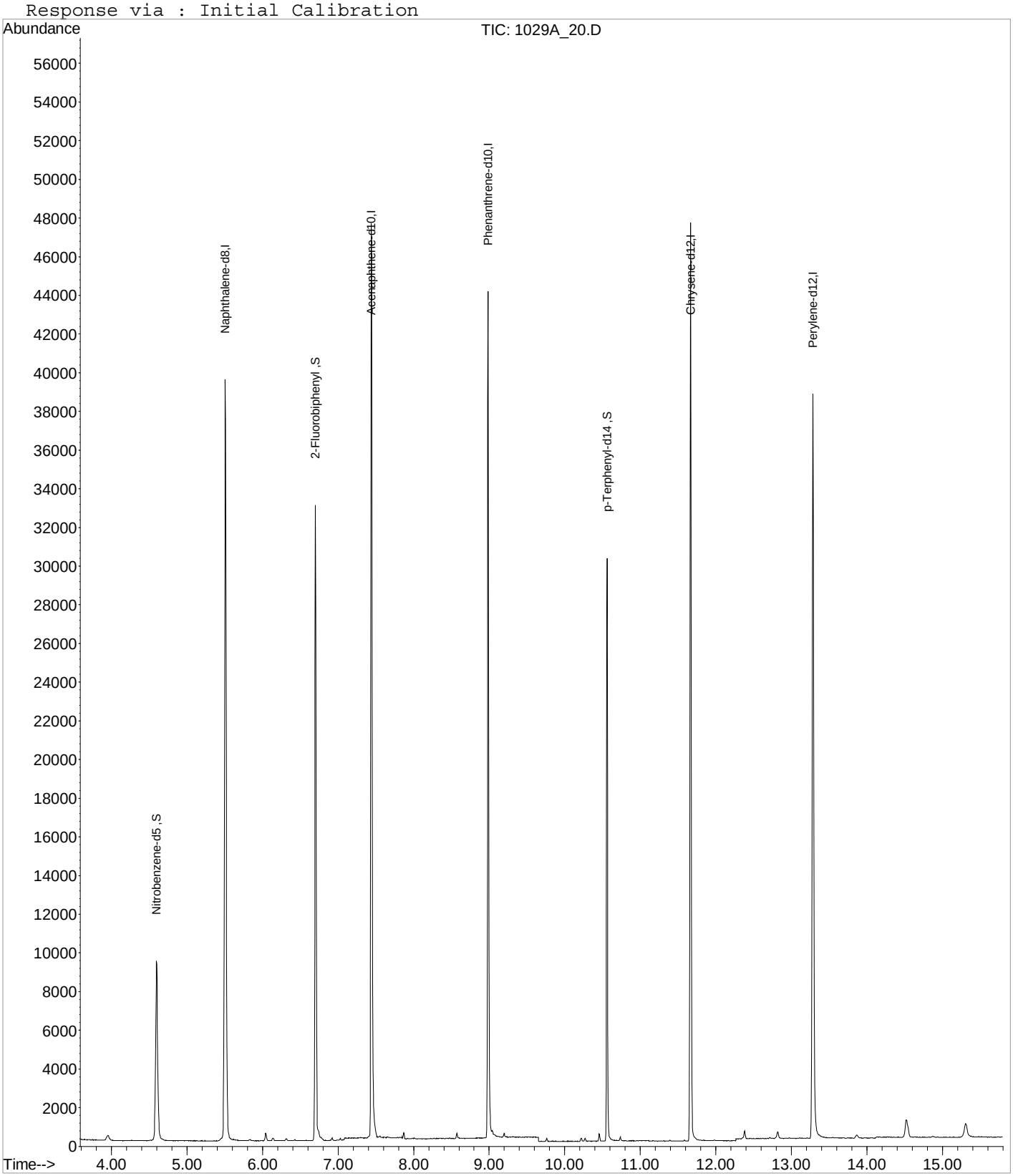
Target Compounds				Qvalue
3) Naphthalene	5.53	128	384	N.D.
4) 2-Methylnaphthalene	6.32	142	74	N.D.
5) 1-Methylnaphthalene	6.32	142	74	N.D.
8) 2-Chloronaphthalene	6.85	162	11	N.D.
9) Acenaphthylene	7.23	152	2	N.D.
10) Acenaphthene	7.47	153	67	N.D.
11) Dibenzofuran	7.66	168	37	N.D.
12) Fluorene	8.01	166	30	N.D.
14) Phenanthrene	9.01	178	219	N.D.
15) Anthracene	9.01	178	219	N.D.
16) Fluoranthene	10.22	202	125	N.D.
18) Pyrene	10.45	202	297	N.D.
20) Benzo(a)anthracene	11.66	228	175	N.D.
21) Chrysene	11.69	228	54	N.D.
23) Benzo(b)fluoranthene	12.82	252	242	N.D.
24) Benzo(k)fluoranthene	12.91	252	17	N.D.
25) Benzo(a)pyrene	13.20	252	40	N.D.
26) Indeno(1,2,3-cd)pyrene	14.87	276	56	N.D.
27) Dibenz(a,h)anthracene	14.87	278	33	N.D.
28) Benzo(g,h,i)perylene	15.29	276	14	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914A\1029A 20.D Vial: 19
Acq On : 29 Oct 2014 4:37 pm Operator: 280
Sample : L729564-05 1x WG750917 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:11 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

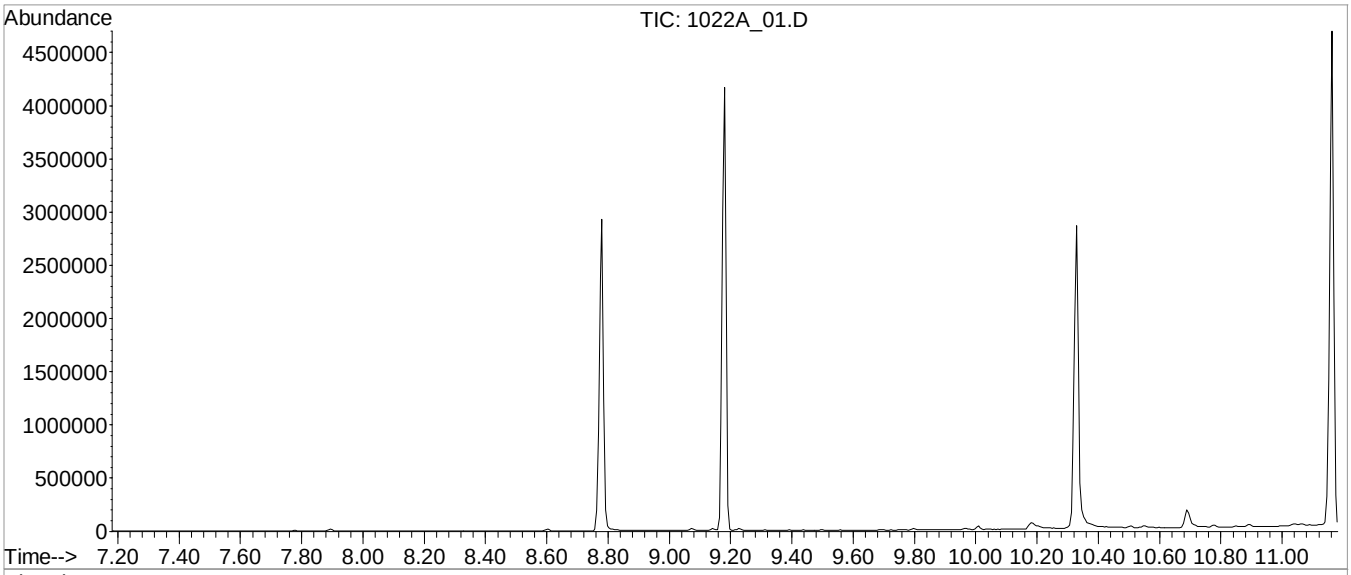
ScanSummary.rpt

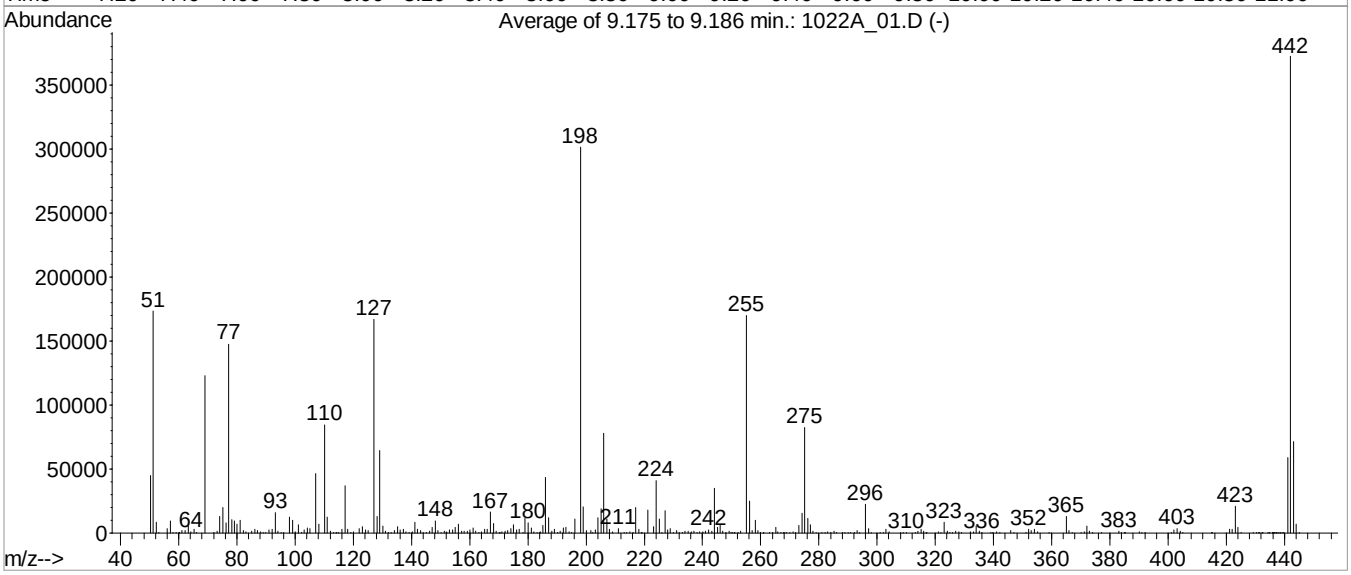
Total Files Scanned	28	Beginning Analyzed Date	10/22/2014 10:20:00AM
Methods	0	Ending Analyzed Date	10/22/2014 7:38:00PM
Samples	27	Analyzed Range	9 hours, 18 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

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





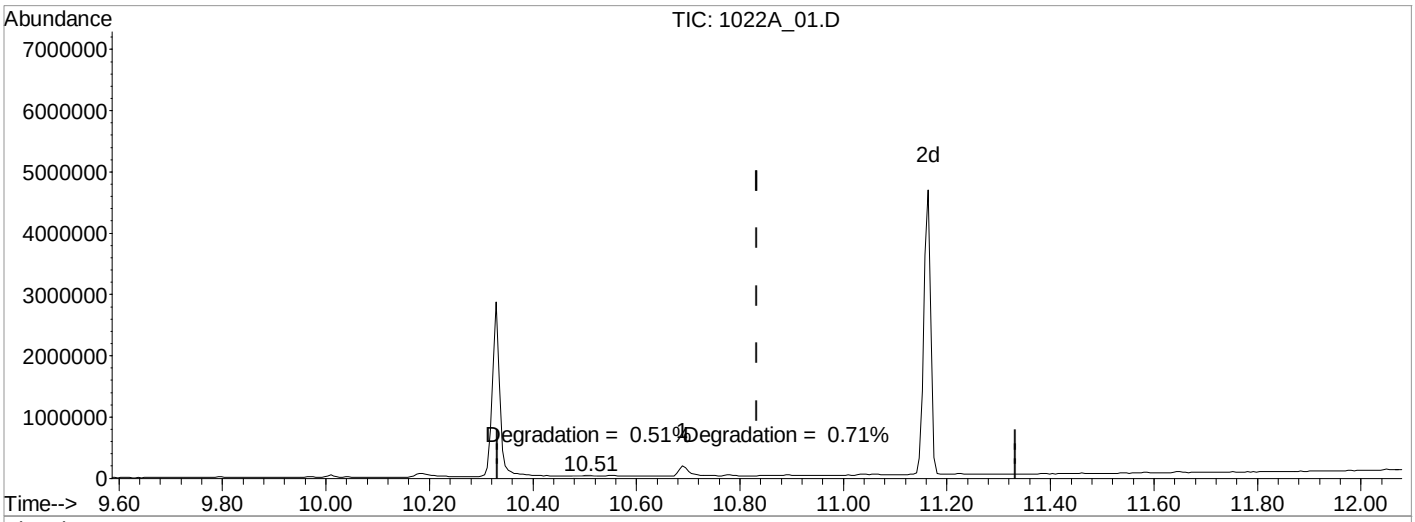
AutoFind: Scans 979, 980, 981; Background Corrected with Scan 973

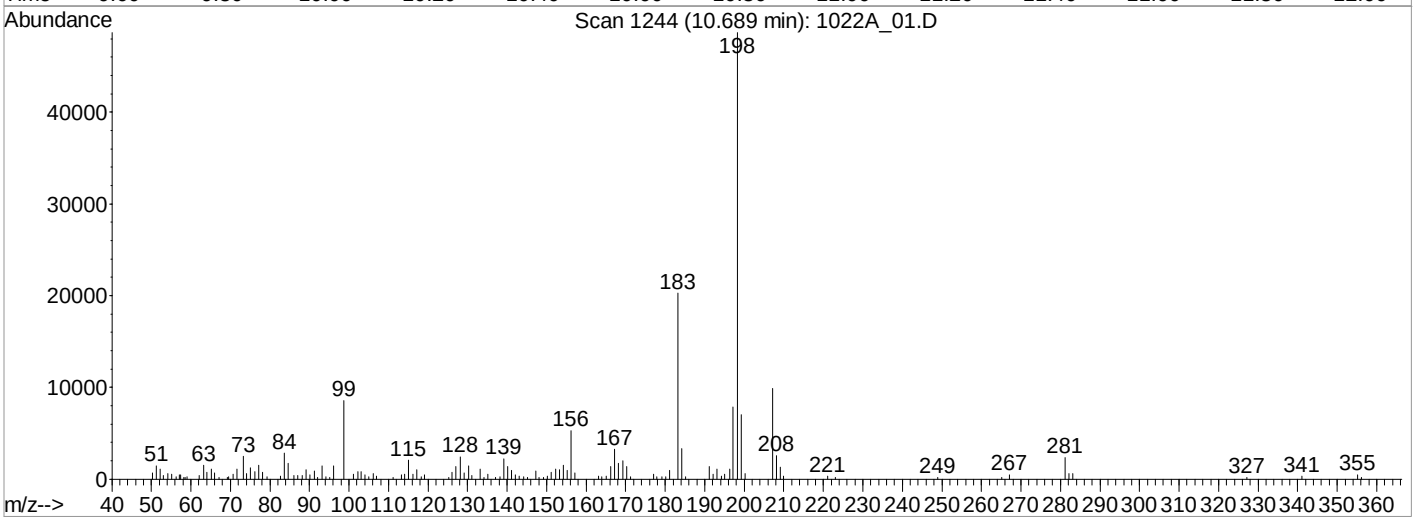
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	46.5	173443	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.0	0	PASS
127	442	10	80	44.8	167032	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	80.9	301738	PASS
199	198	5	9	6.7	20146	PASS
275	442	10	60	22.1	82474	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

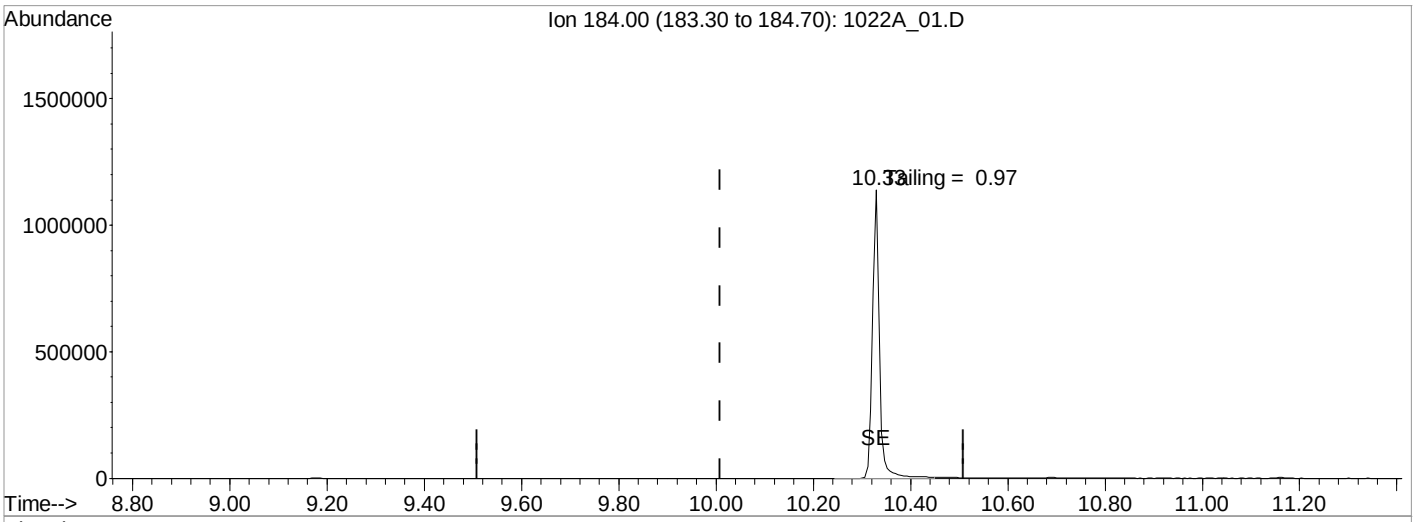
response 244241

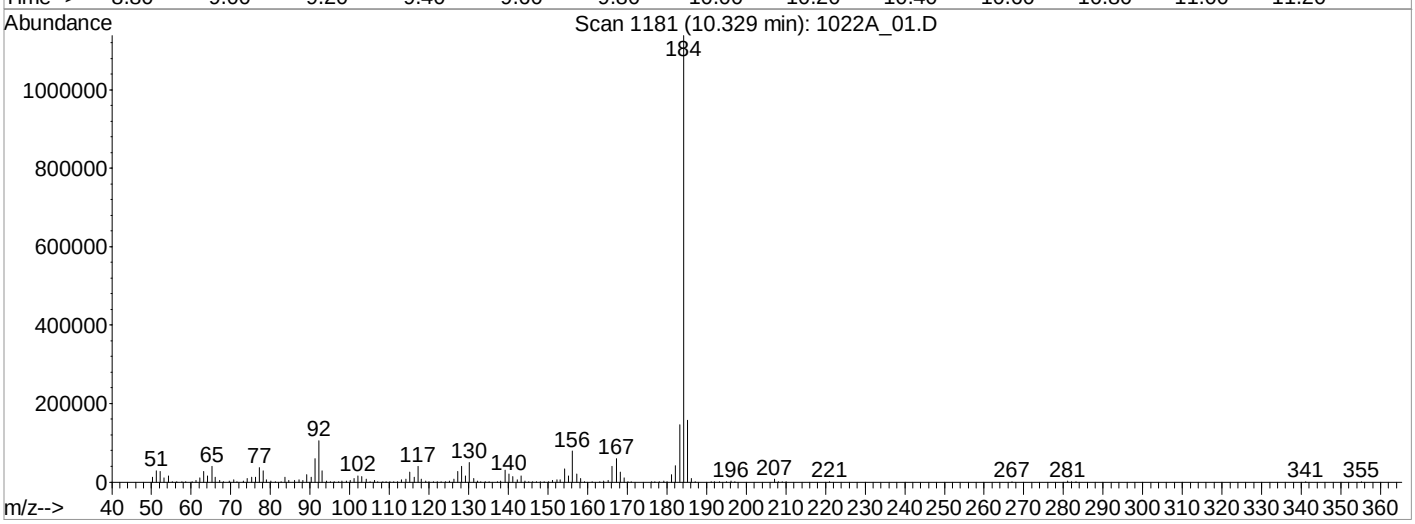
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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

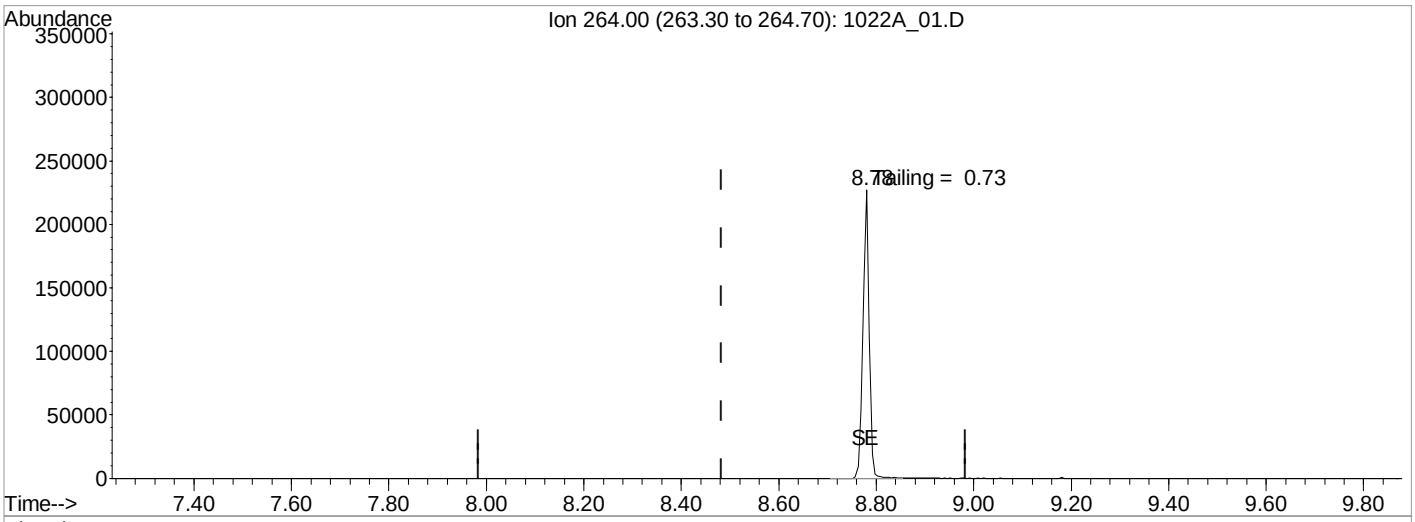
response 1122663

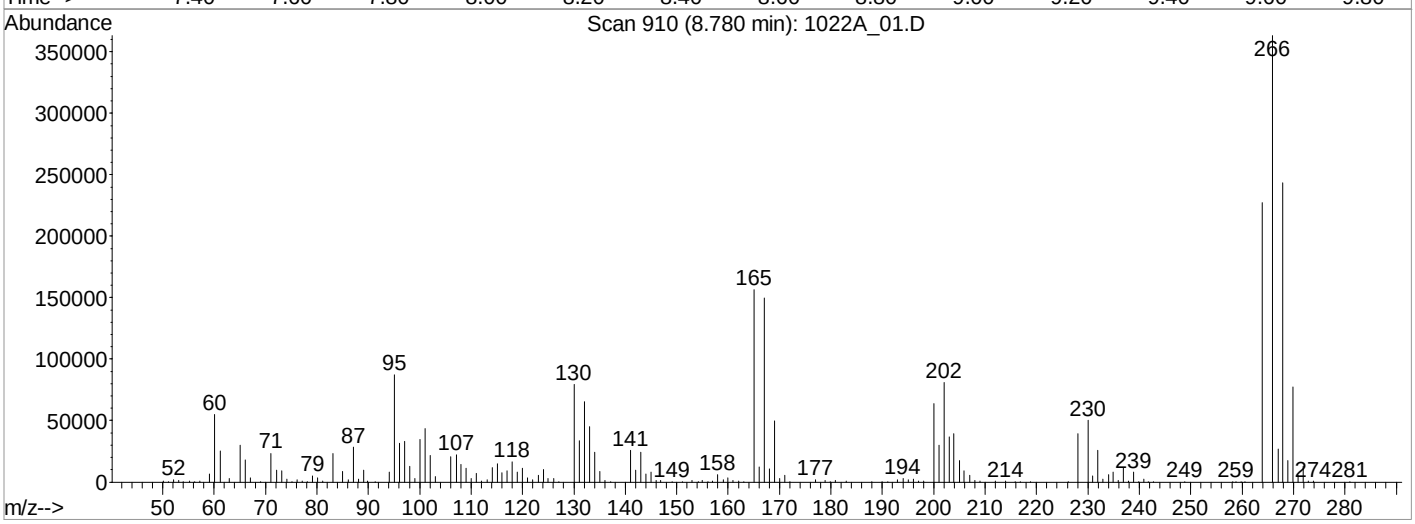
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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)

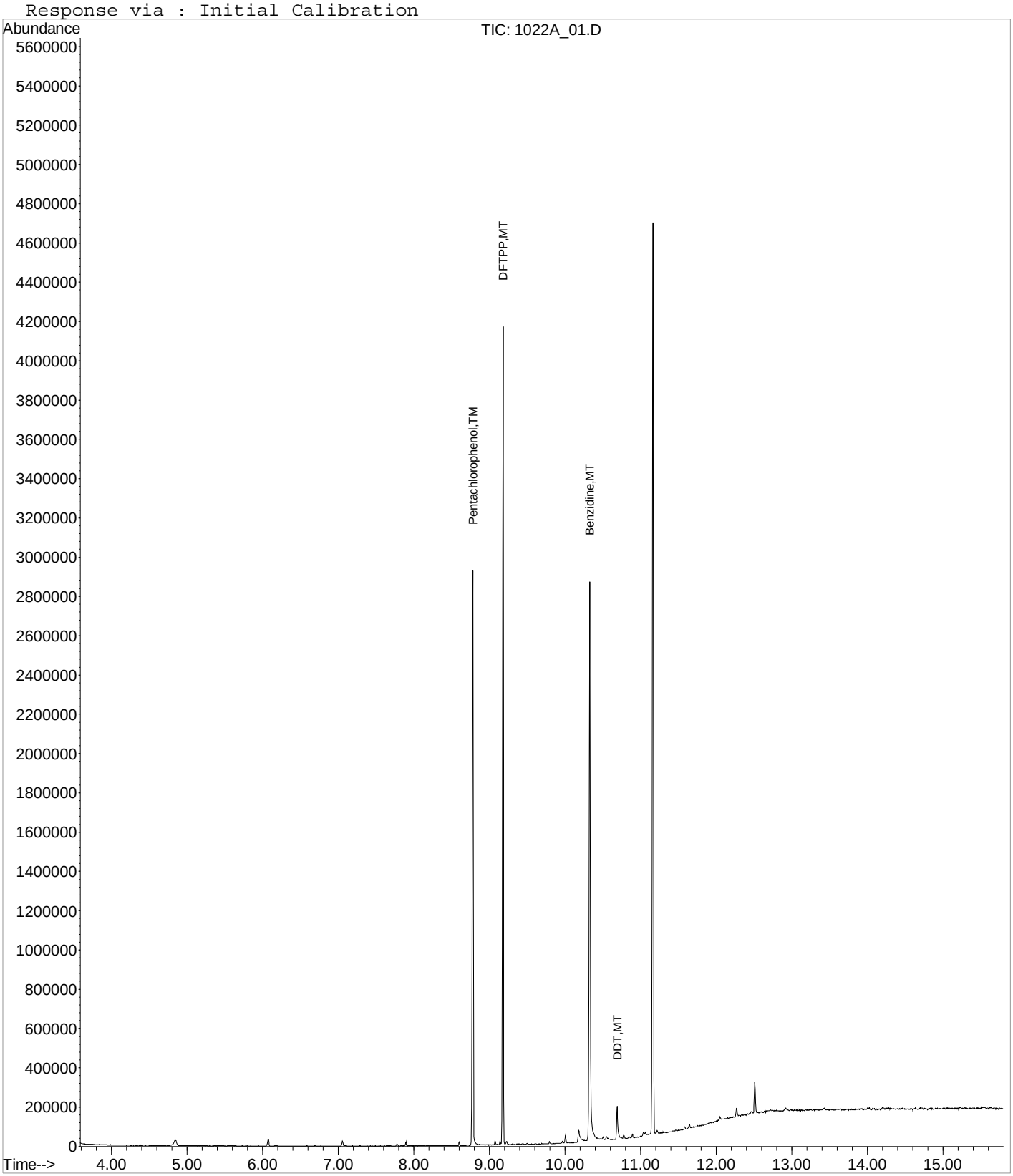
Target Compounds					Qvalue
1) Pentachlorophenol	8.78	264	202877	34.7675503 ug/mL	100
2) DFTPP	9.18	198	354054	47.8525070 ug/mL	100
3) Benzidine	10.33	184	1122663	46.7744287 ug/mL	100
4) DDT	10.69	TIC	244241	18.1507883 ug/ml	100
5) DDT	10.47	235	0	N.D.	

(#) = 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%#		

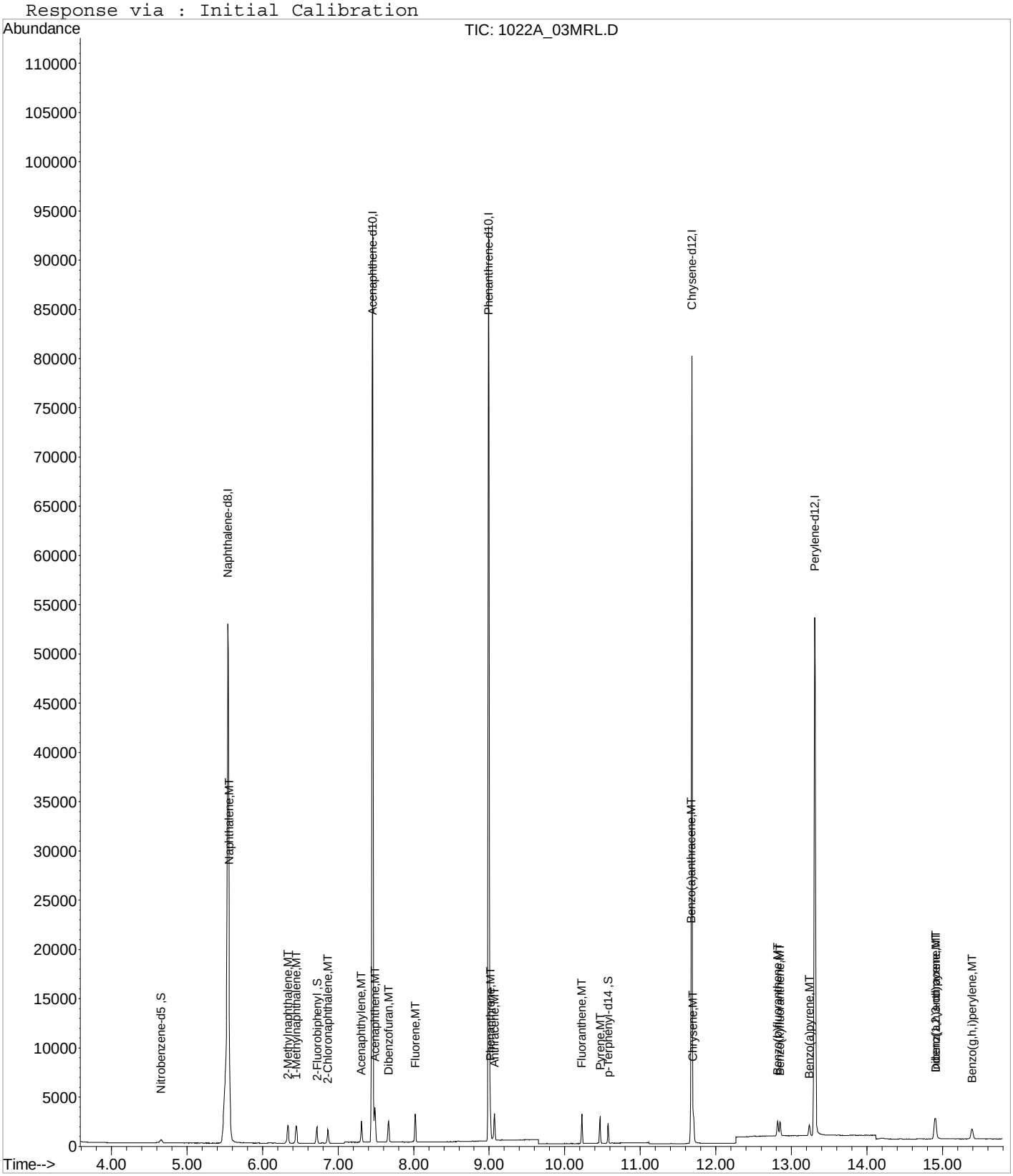
Target Compounds					Qvalue
3) Naphthalene	5.57	128	4201	1.8281786 ppb	100
4) 2-Methylnaphthalene	6.34	142	1418	0.9733265 ppb	100
5) 1-Methylnaphthalene	6.45	142	1319	0.9721928 ppb	95
8) 2-Chloronaphthalene	6.87	162	1243	0.9733146 ppb	96
9) Acenaphthylene	7.31	152	1864	0.9177708 ppb	98
10) Acenaphthene	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

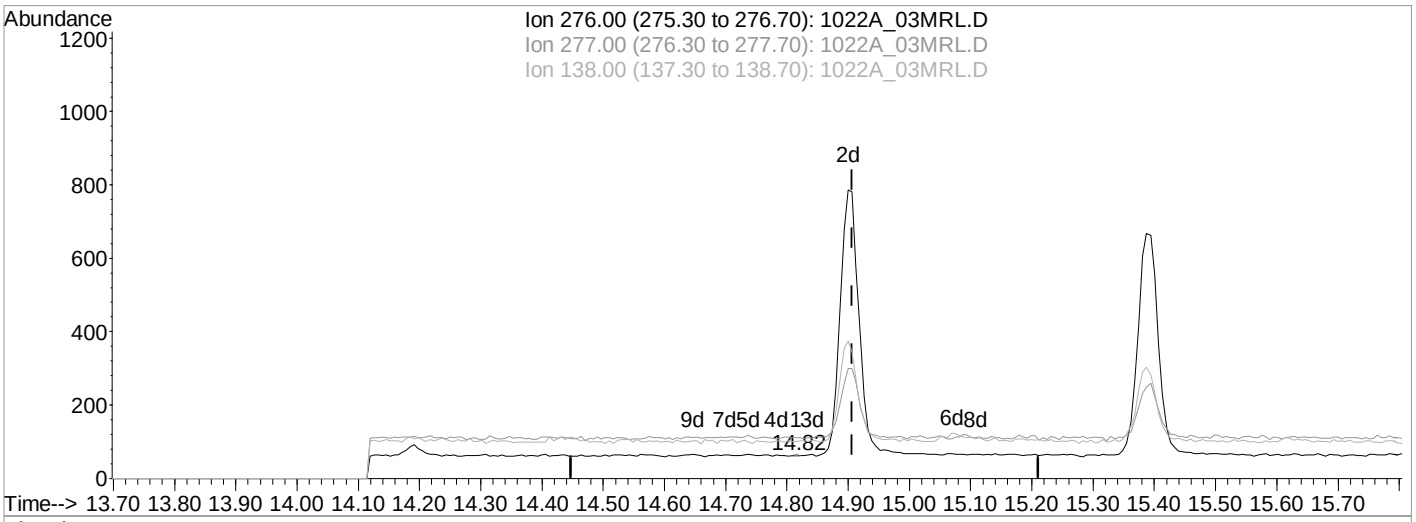
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

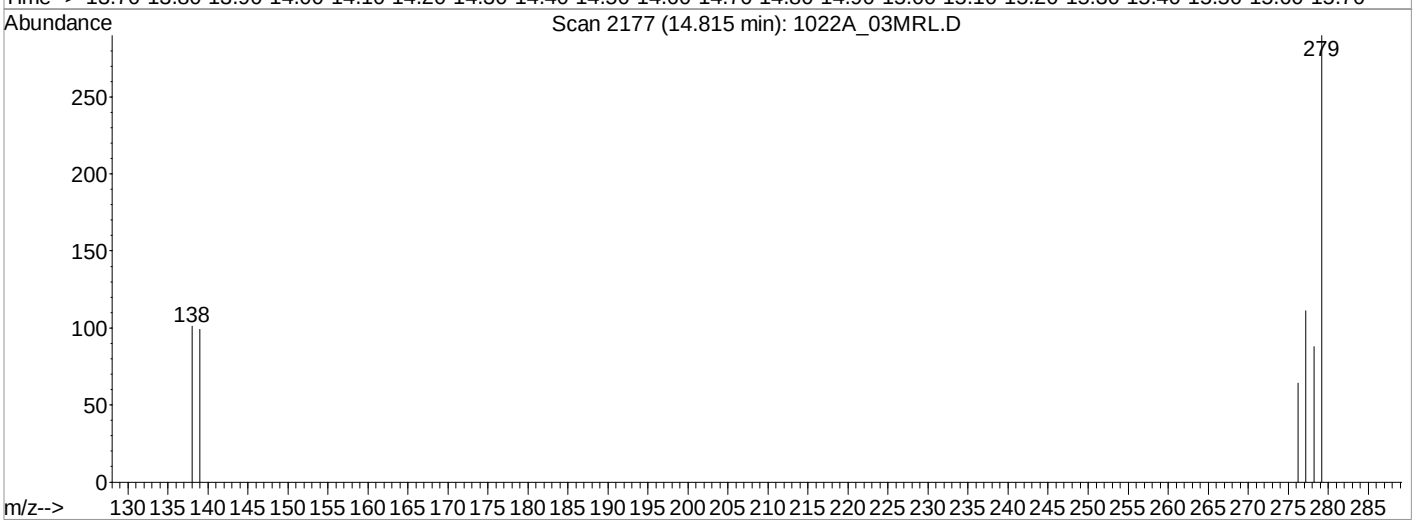


Quantitation Report (Qedit)

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

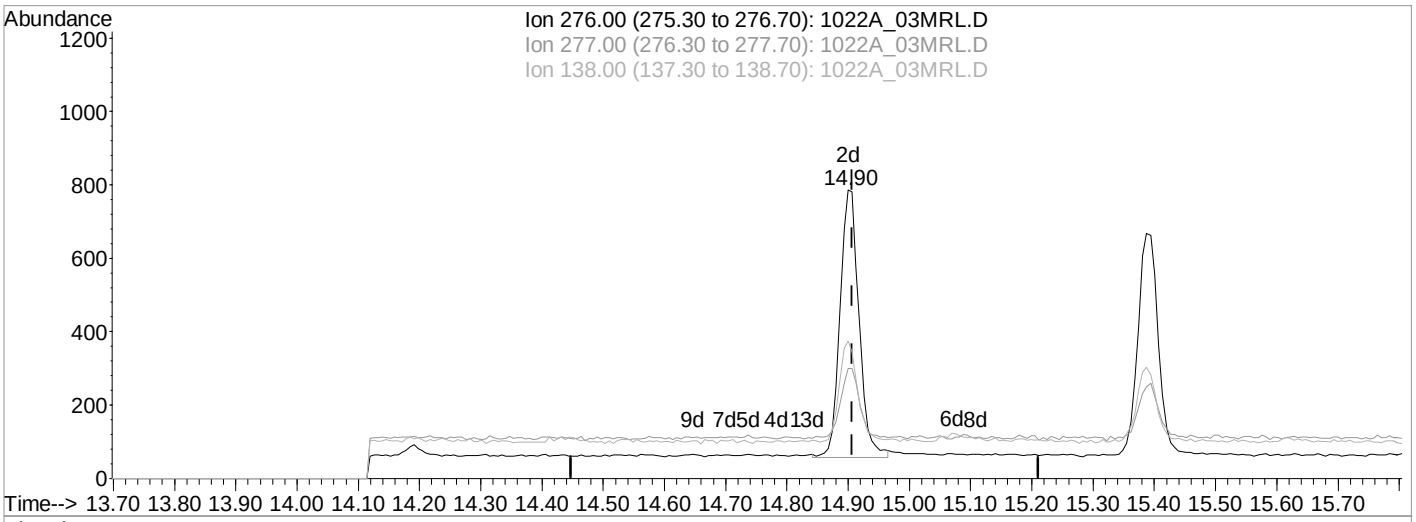
response 3

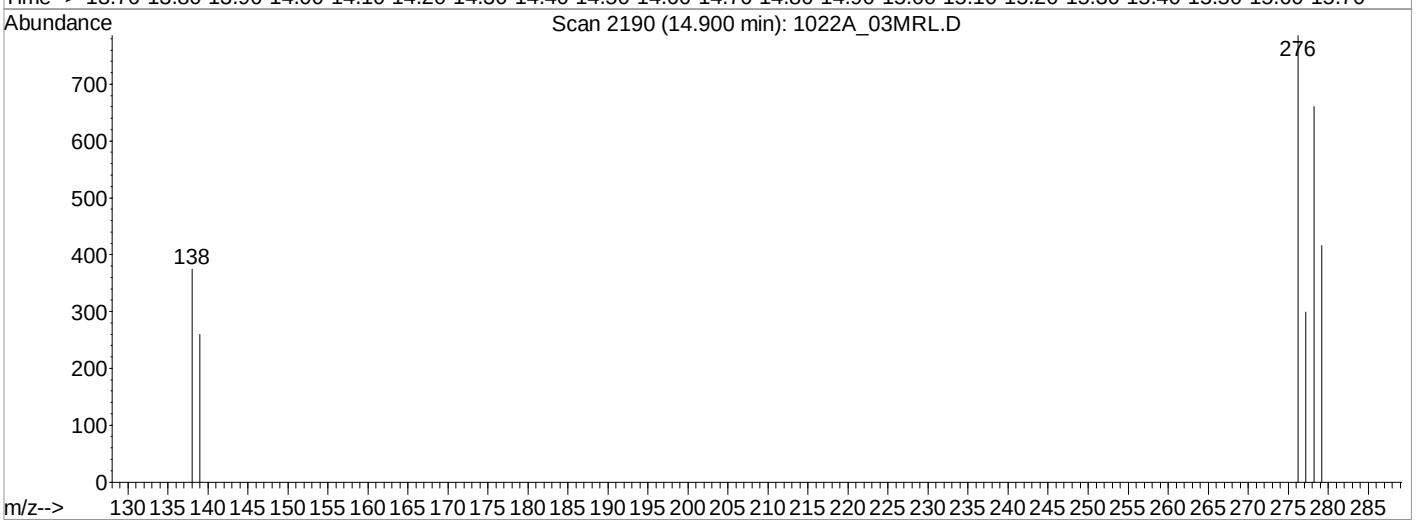
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	25.00
138.00	11.90	0.00
0.00	0.00	0.00

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

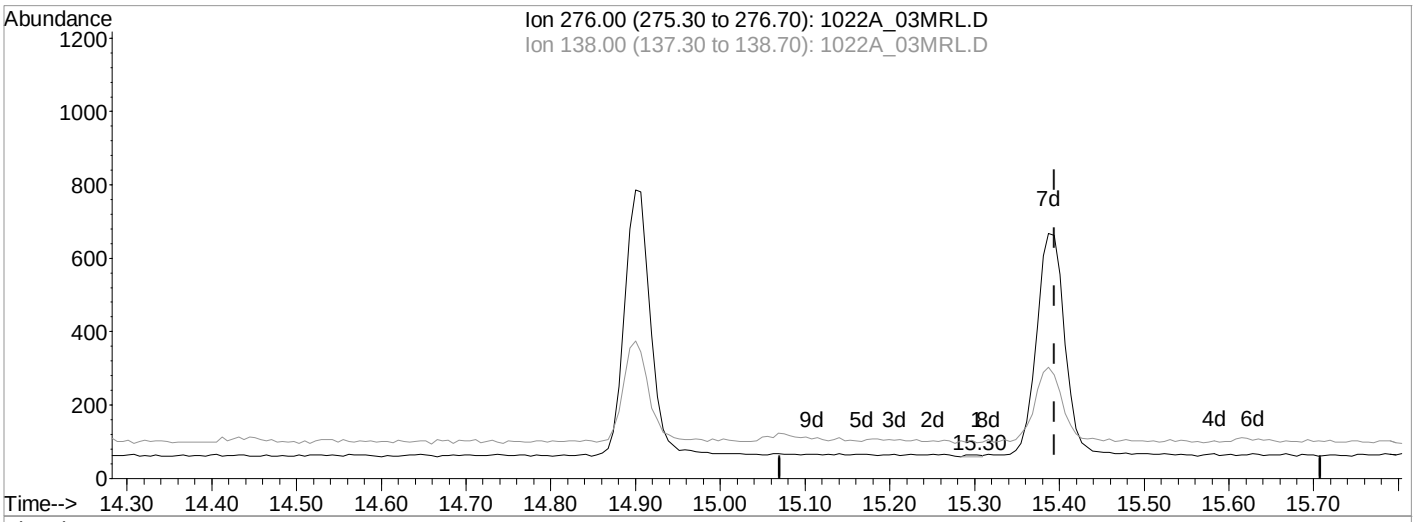
response 1571

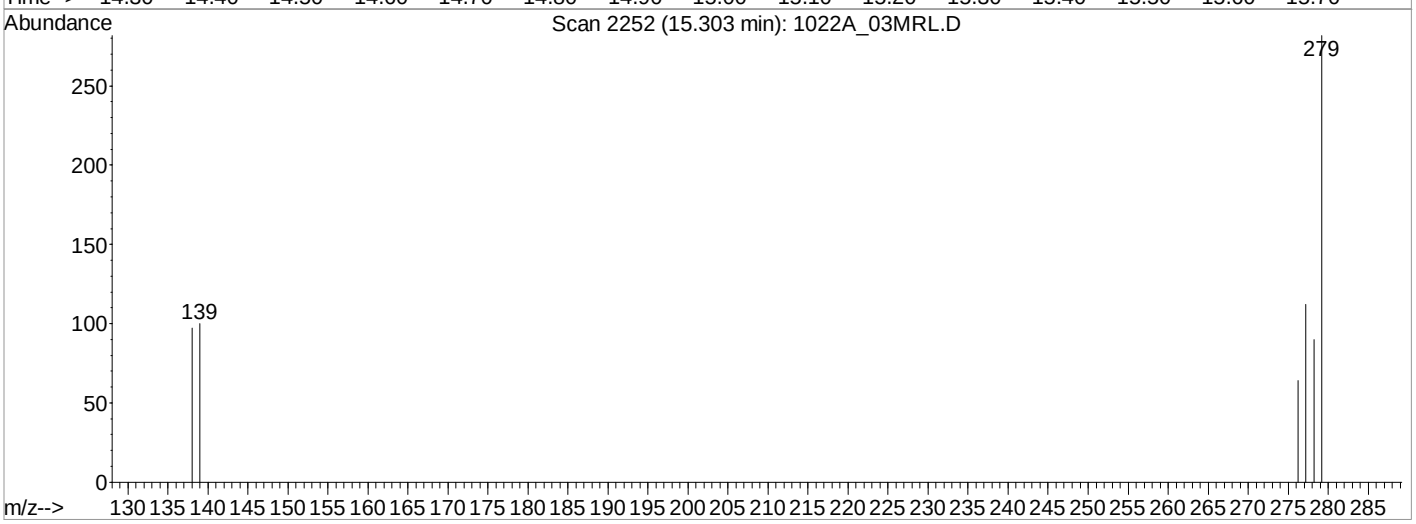
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	38.04
138.00	11.90	47.71#
0.00	0.00	0.00

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

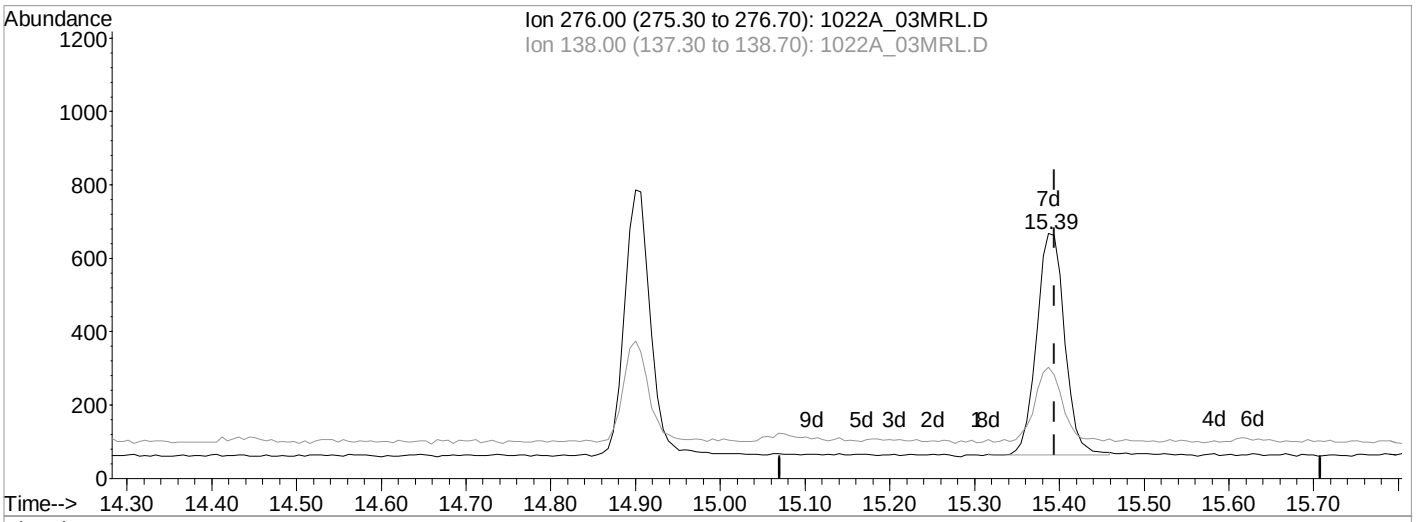
response 6

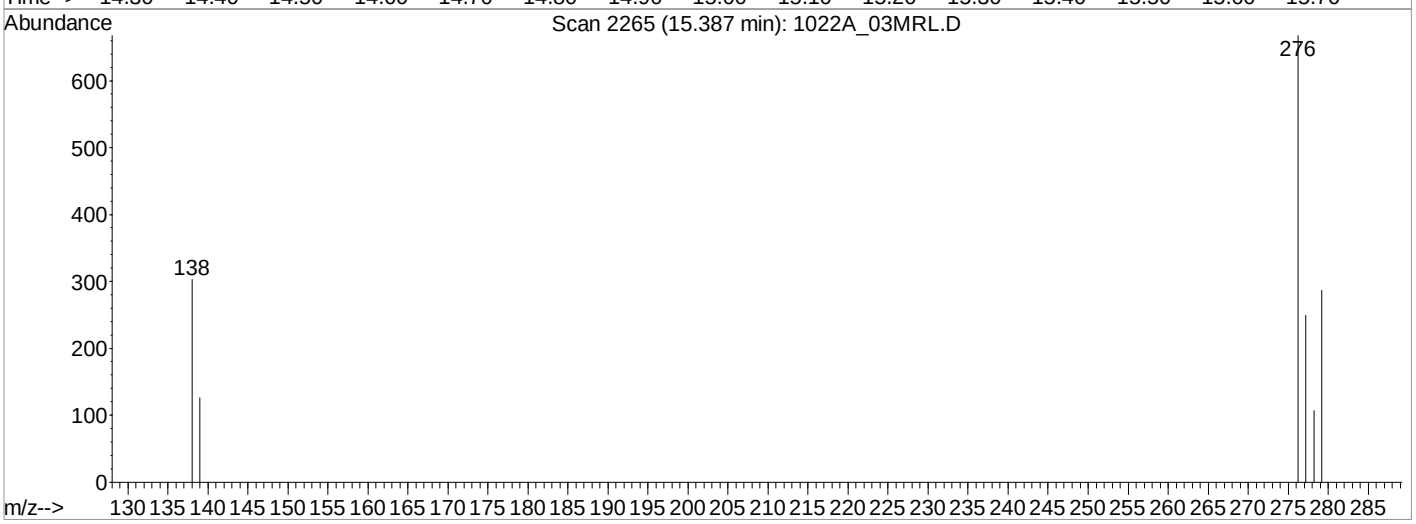
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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%#	

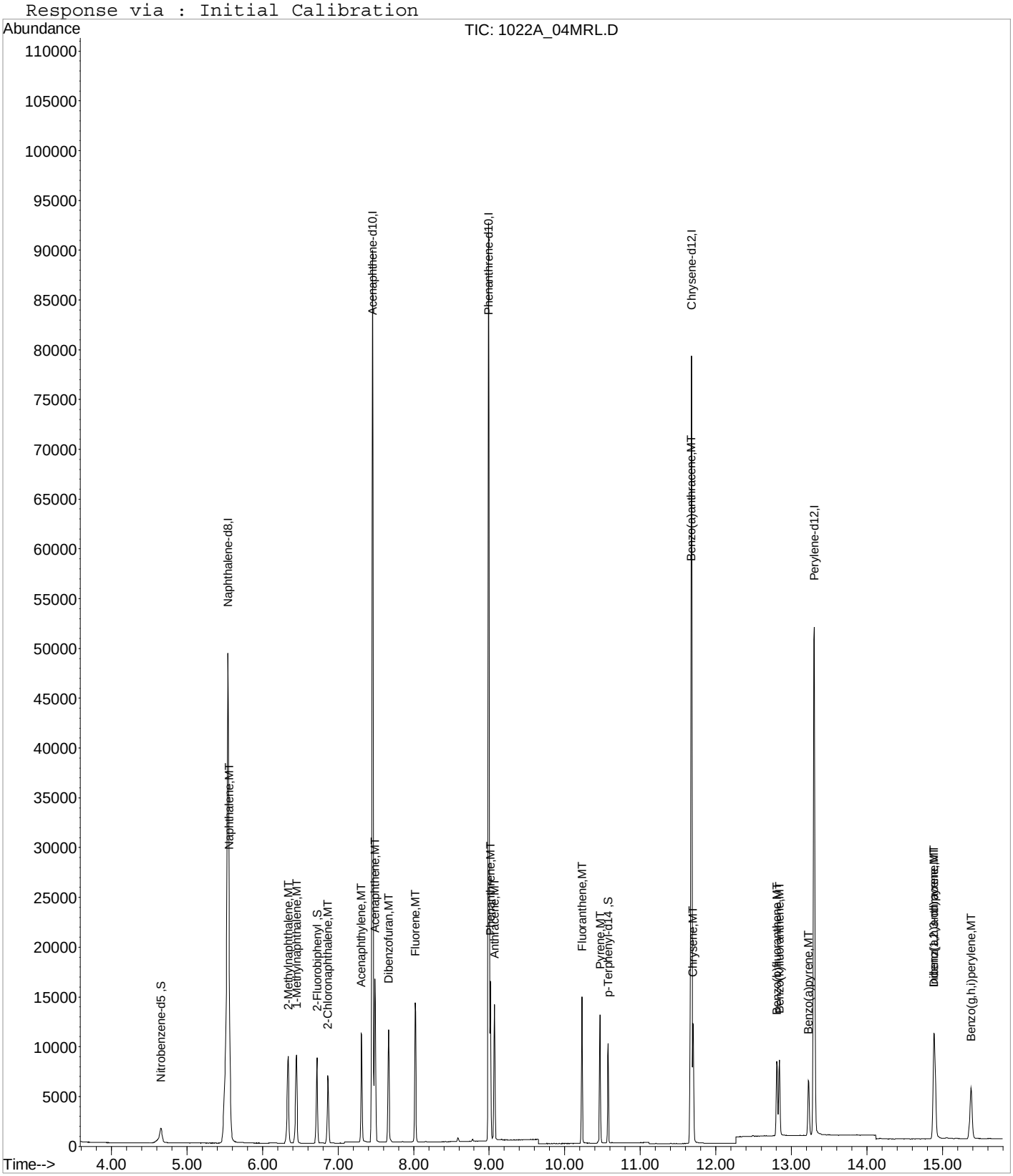
Target Compounds					Qvalue
3) Naphthalene	5.57	128	13197	5.8166873 ppb	99
4) 2-Methylnaphthalene	6.34	142	7227	5.0242929 ppb	94
5) 1-Methylnaphthalene	6.45	142	6712	5.0106504 ppb	96
8) 2-Chloronaphthalene	6.87	162	6385	5.0907672 ppb	98
9) Acenaphthylene	7.31	152	9625	4.8253554 ppb	100
10) Acenaphthene	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

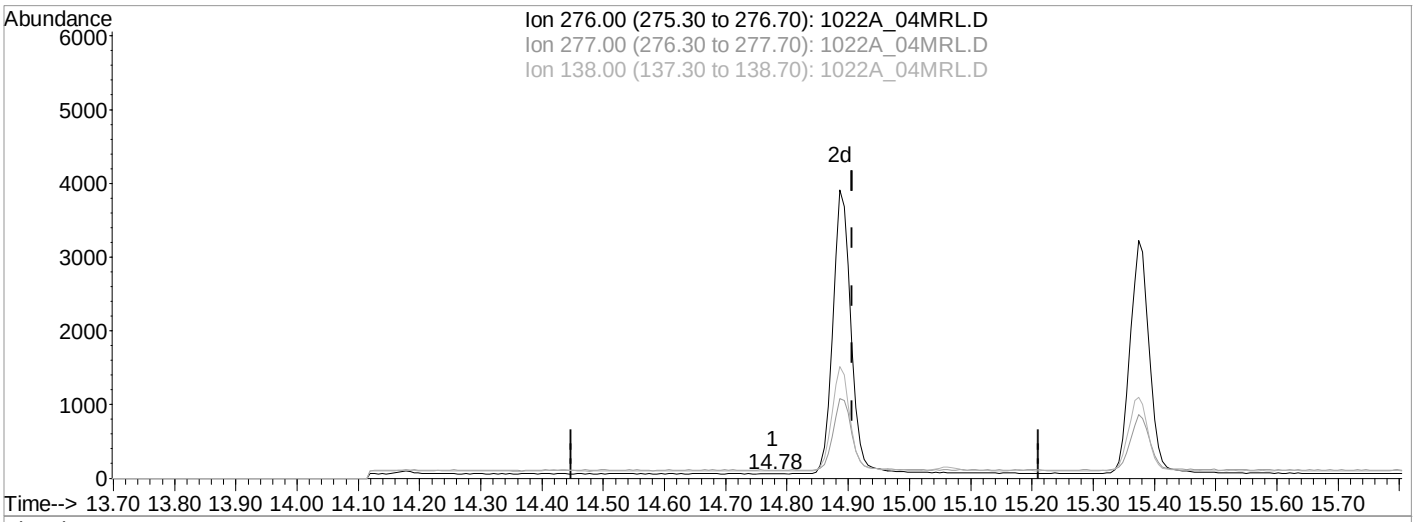


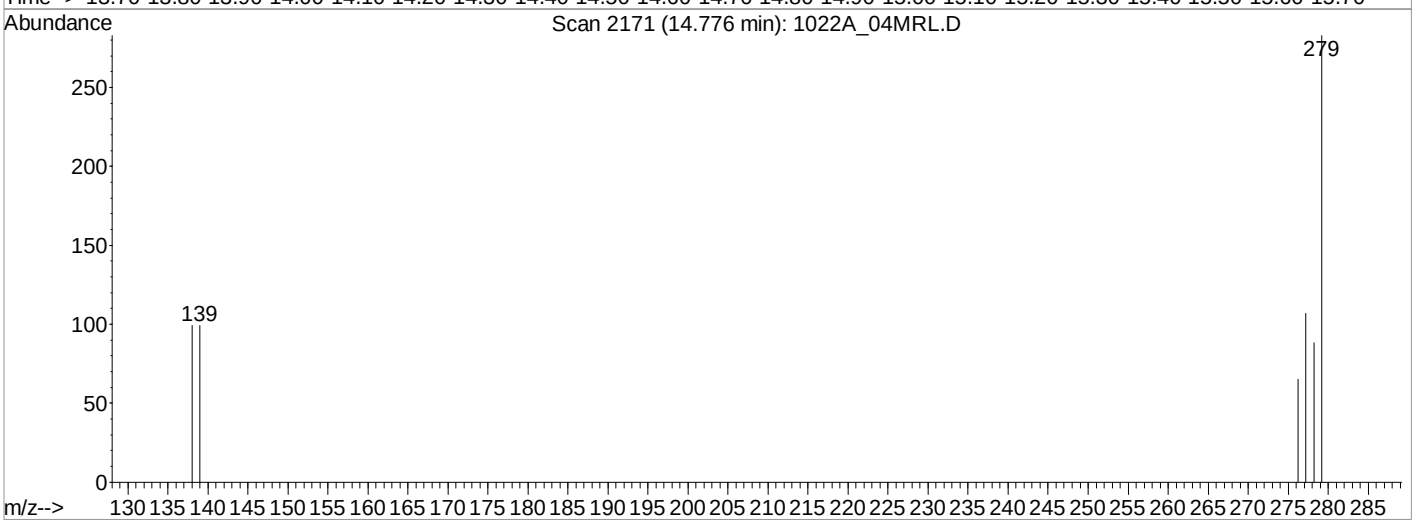
1022A_04MRL.D SS07J22N.M Thu Oct 23 07:14:39 2014 Page 2

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

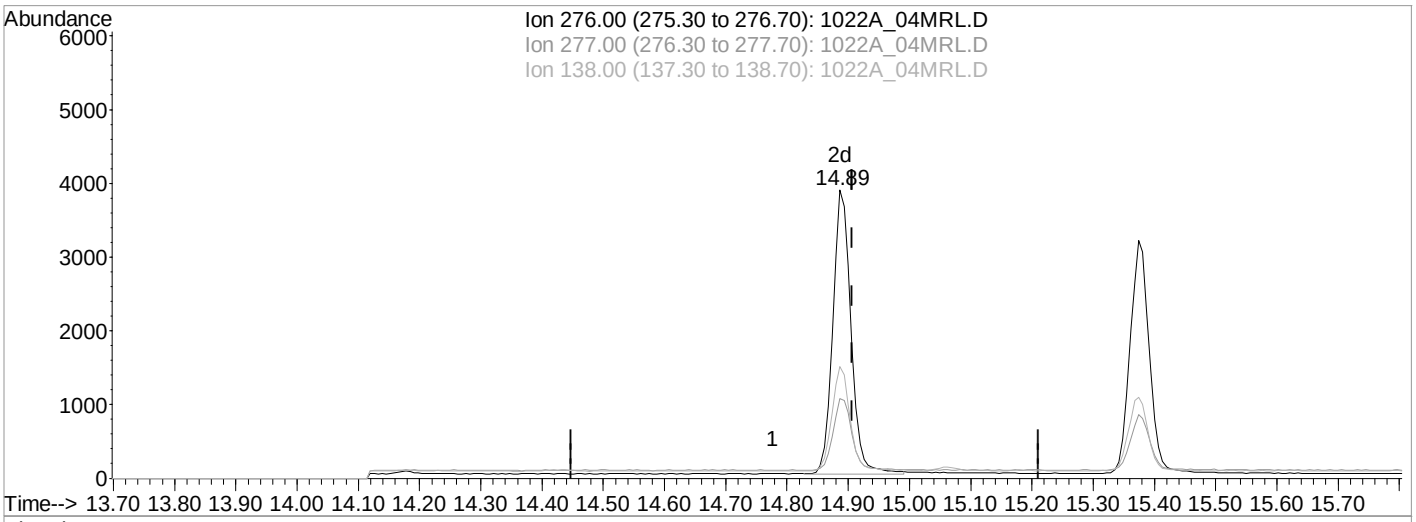
response 11

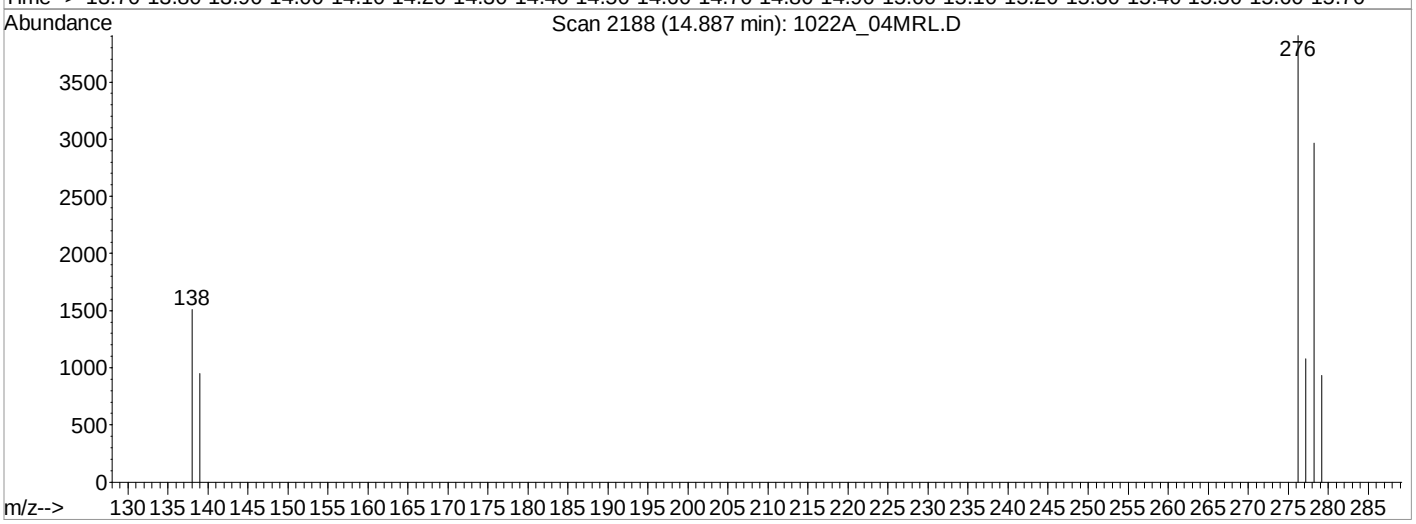
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	16.67
138.00	11.90	0.00
0.00	0.00	0.00

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

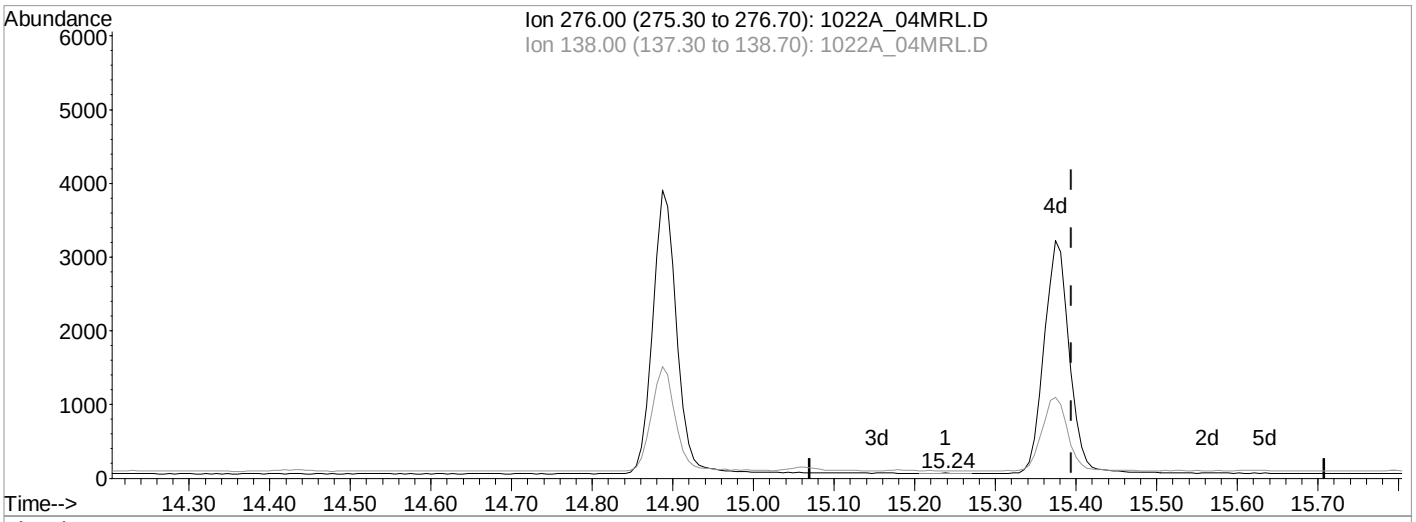
response 7904

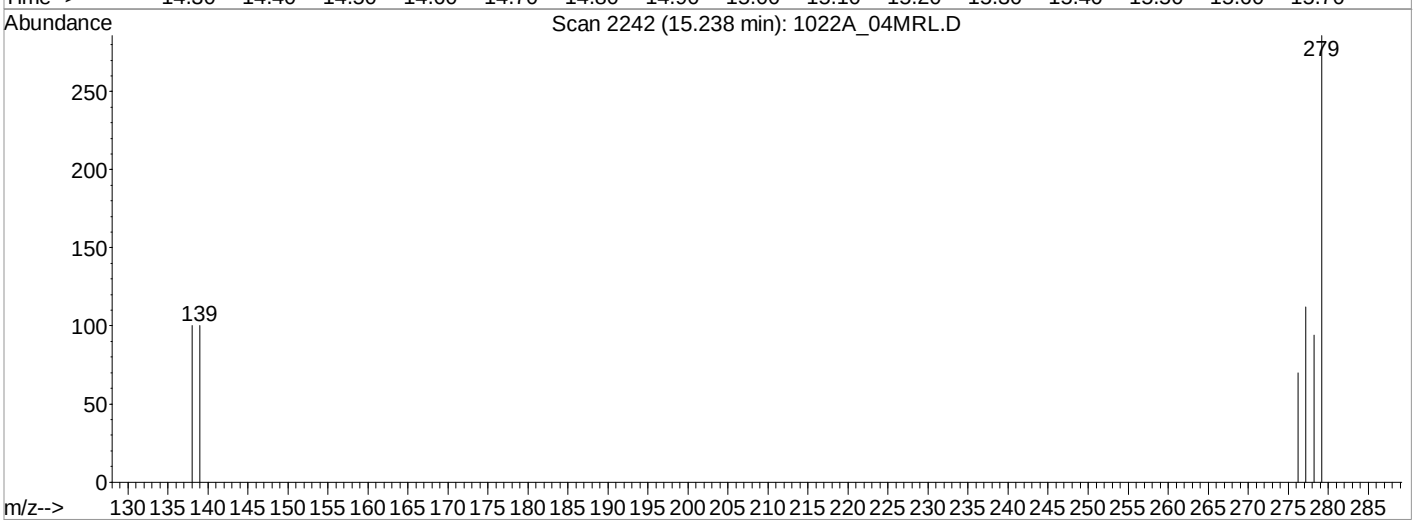
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	27.65
138.00	11.90	38.65#
0.00	0.00	0.00

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

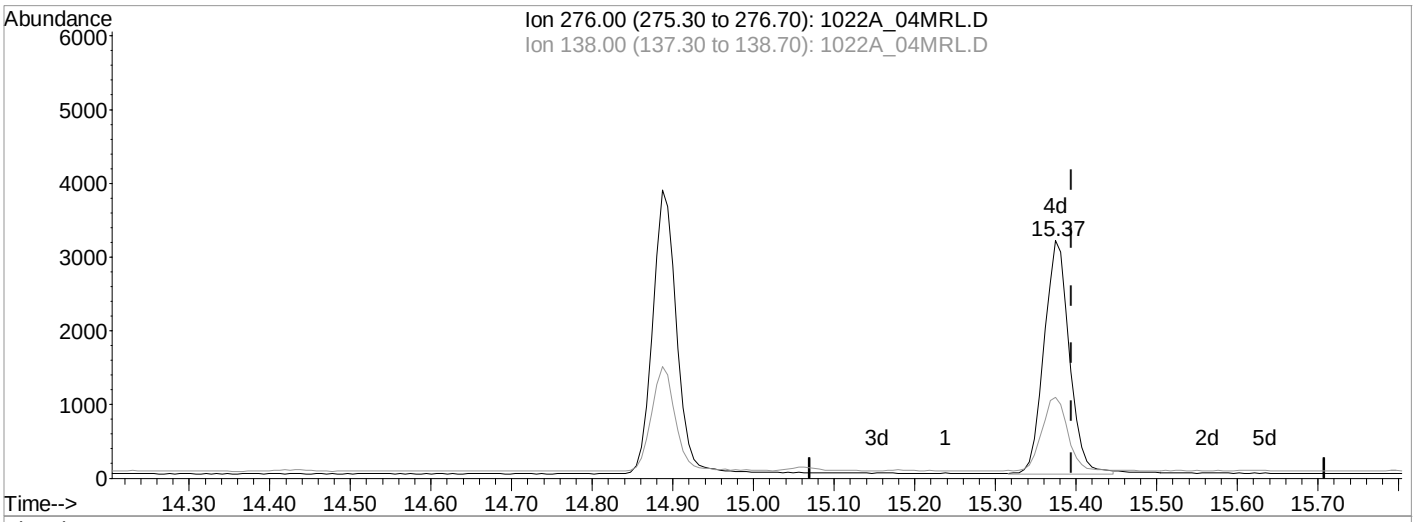
response 9

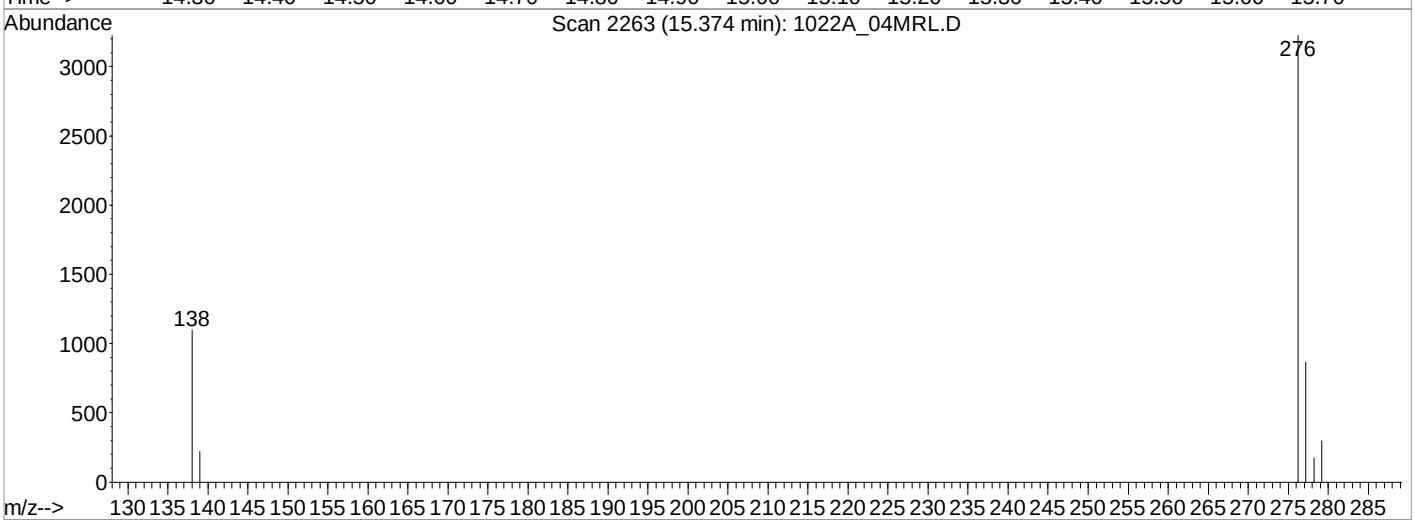
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	20.00
0.00	0.00	0.00
0.00	0.00	0.00

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%#		

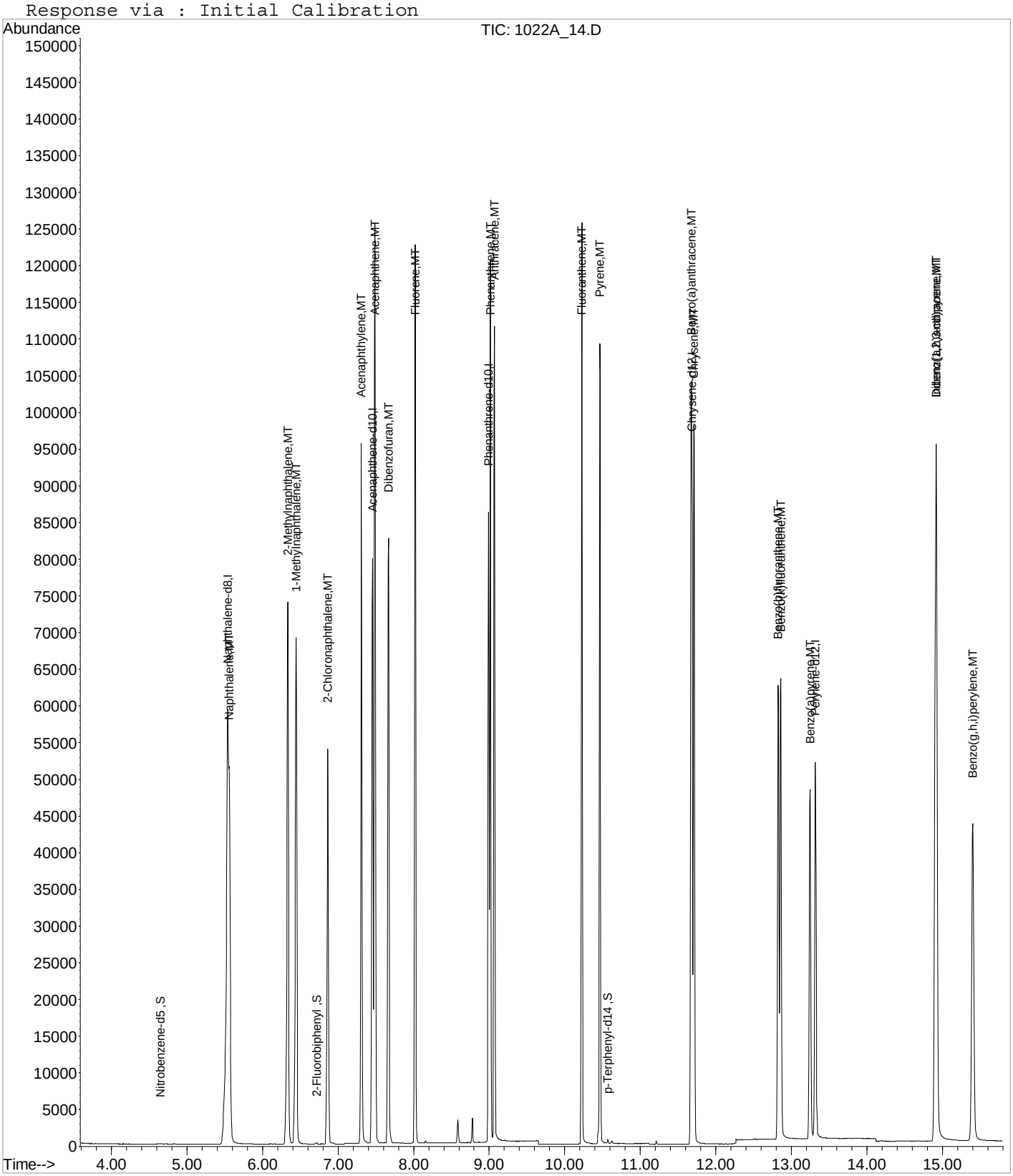
Target Compounds					Qvalue
3) Naphthalene	5.56	128	87327	40.3672509 ppb	99
4) 2-Methylnaphthalene	6.34	142	56351	41.0864530 ppb	95
5) 1-Methylnaphthalene	6.45	142	52592	41.1757928 ppb	98
8) 2-Chloronaphthalene	6.87	162	49388	41.3341427 ppb	93
9) Acenaphthylene	7.31	152	76881	40.4587777 ppb	99
10) Acenaphthene	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

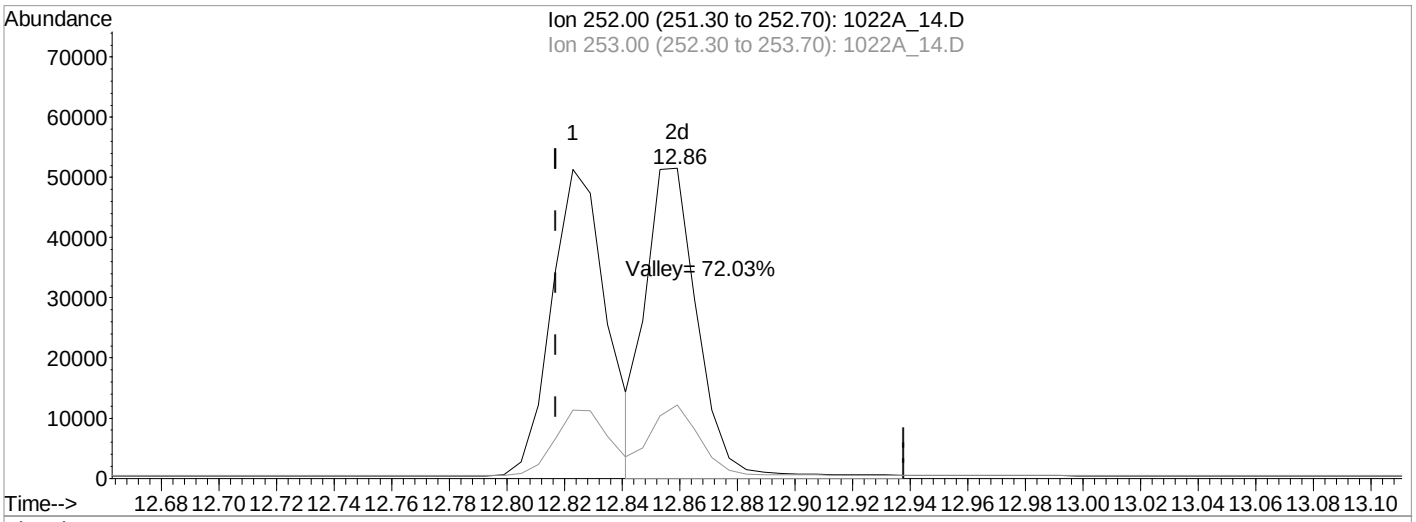
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

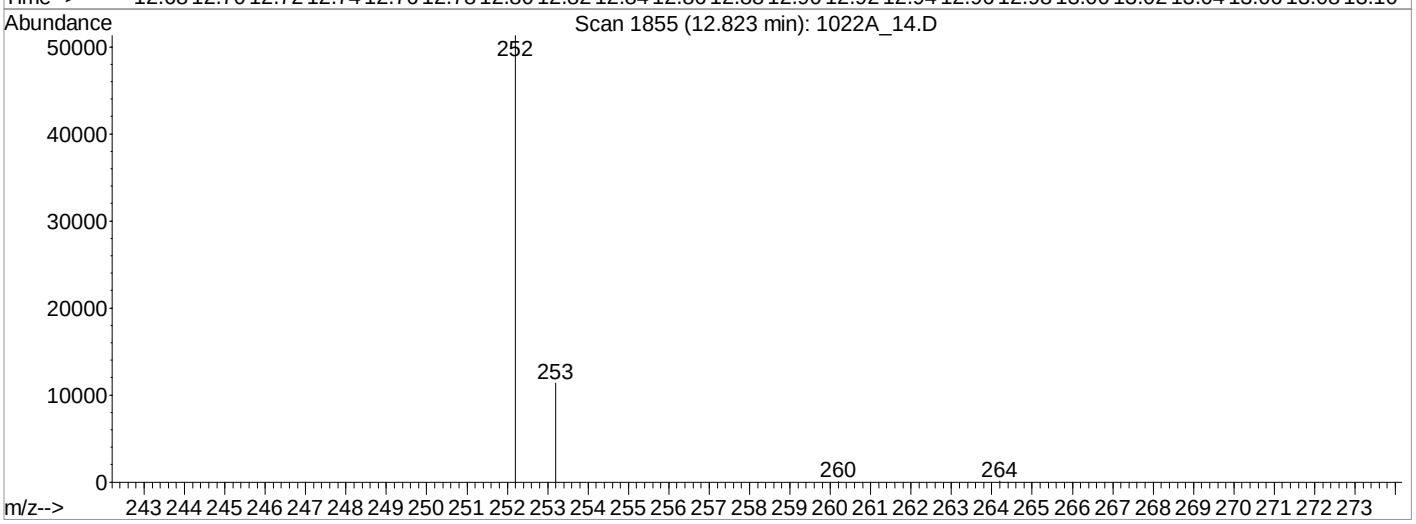


Quantitation Report (Qedit)

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%#		

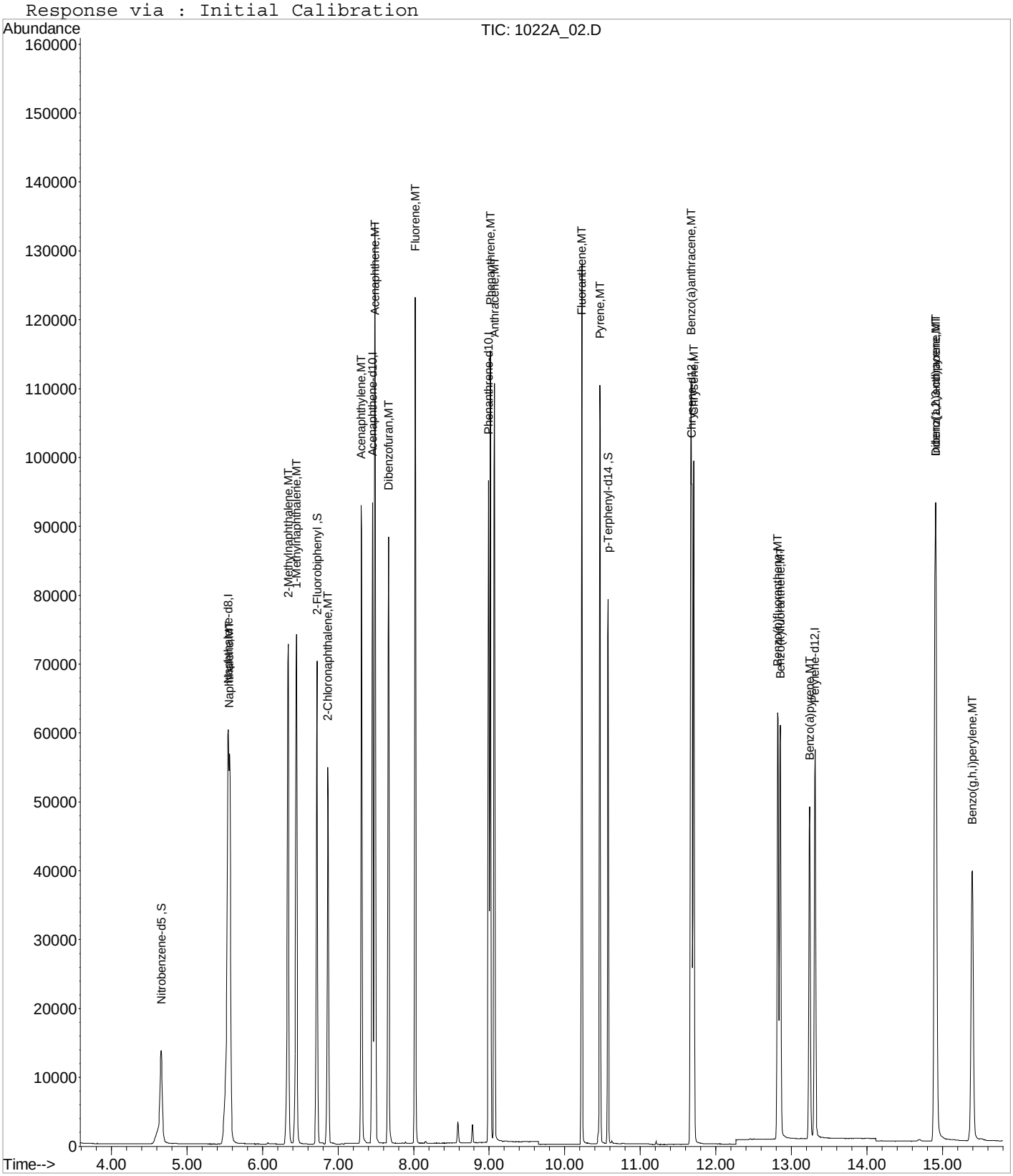
Target Compounds						Qvalue
3) Naphthalene	5.57	128	87478	40.0000000 ppb		100
4) 2-Methylnaphthalene	6.34	142	56512	40.0000000 ppb		94
5) 1-Methylnaphthalene	6.45	142	52773	40.0000000 ppb		95
8) 2-Chloronaphthalene	6.87	162	50324	40.0000000 ppb		99
9) Acenaphthylene	7.31	152	80183	40.0000000 ppb		99
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

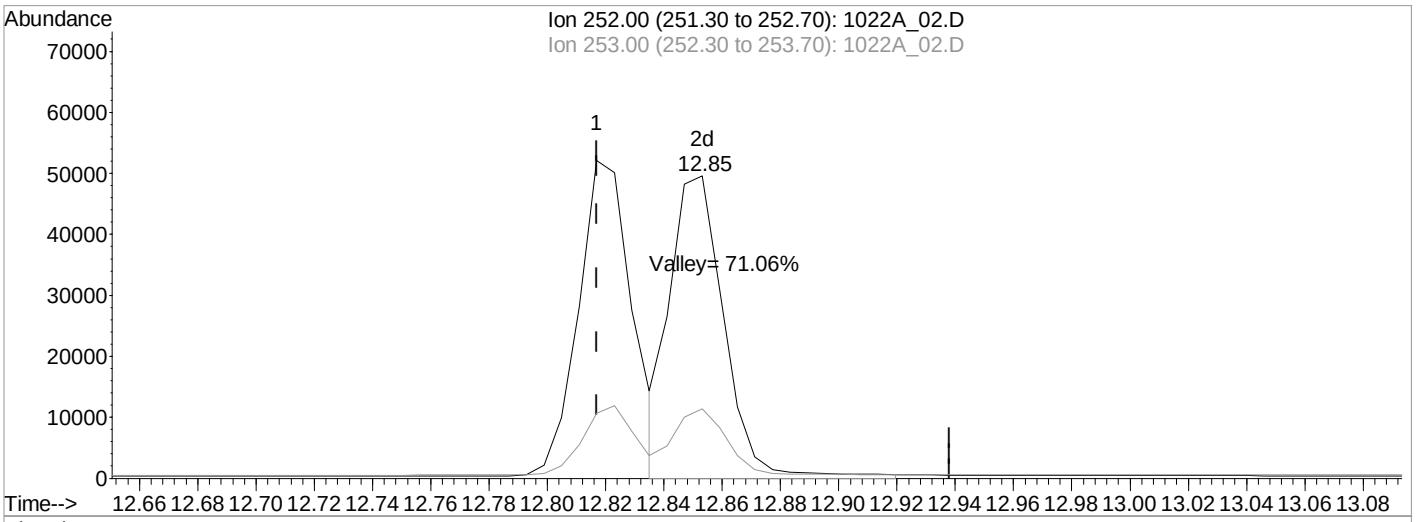
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:04:38 2014
Response via : Initial Calibration

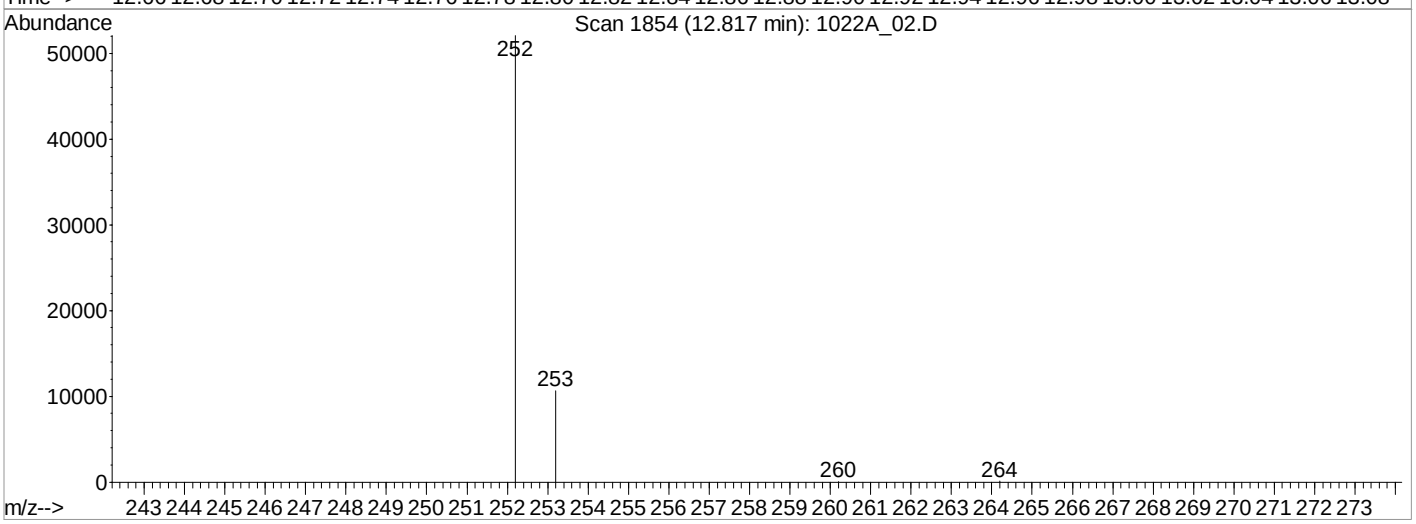


Quantitation Report (Qedit)

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%#	

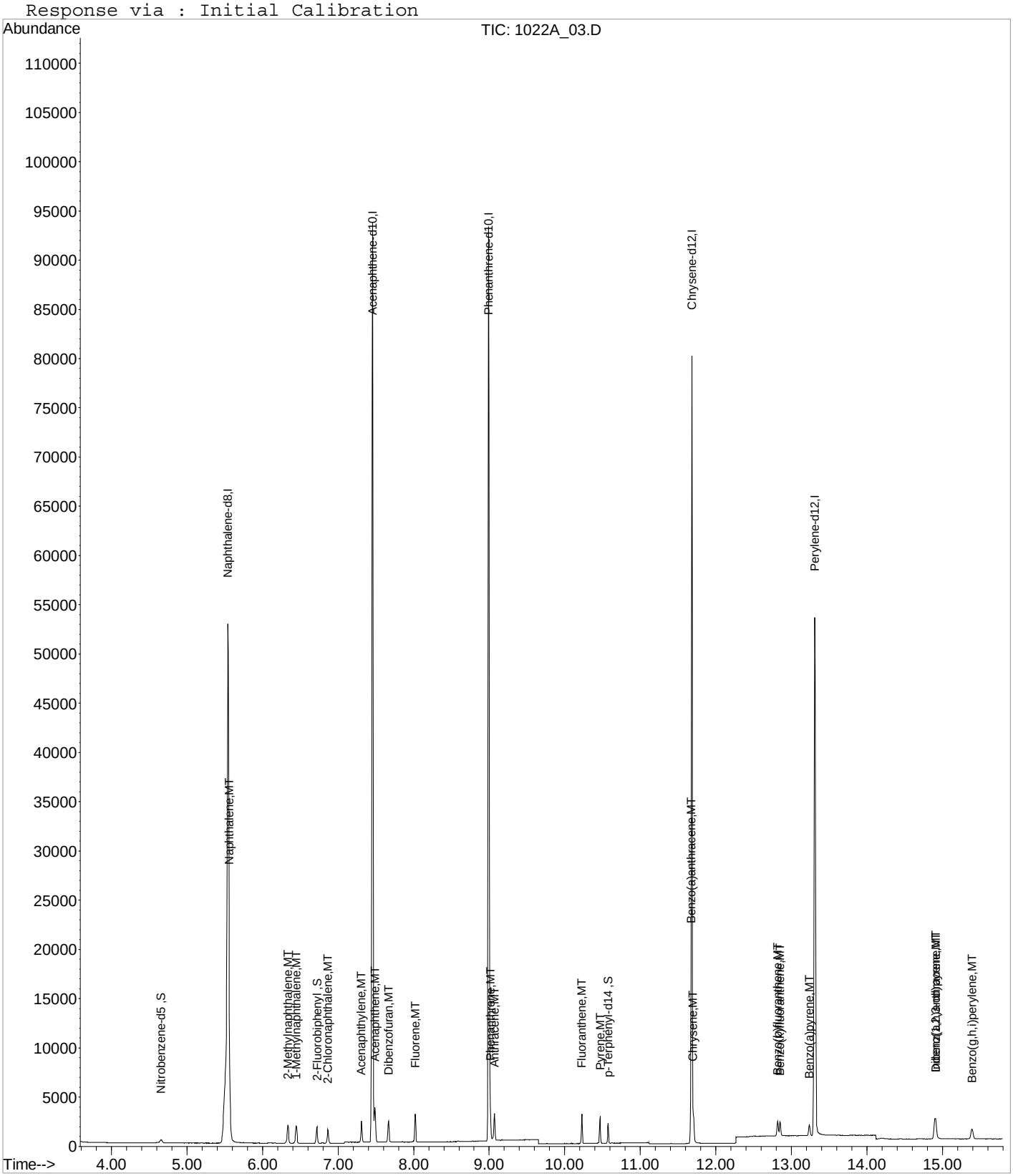
Target Compounds					Qvalue
3) Naphthalene	5.57	128	4201	1.3174514 ppb	100
4) 2-Methylnaphthalene	6.34	142	1418	1.0042399 ppb	100
5) 1-Methylnaphthalene	6.45	142	1319	1.0022798 ppb	95
8) 2-Chloronaphthalene	6.87	162	1243	1.0015589 ppb	96
9) Acenaphthylene	7.31	152	1864	0.9712506 ppb	98
10) Acenaphthene	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

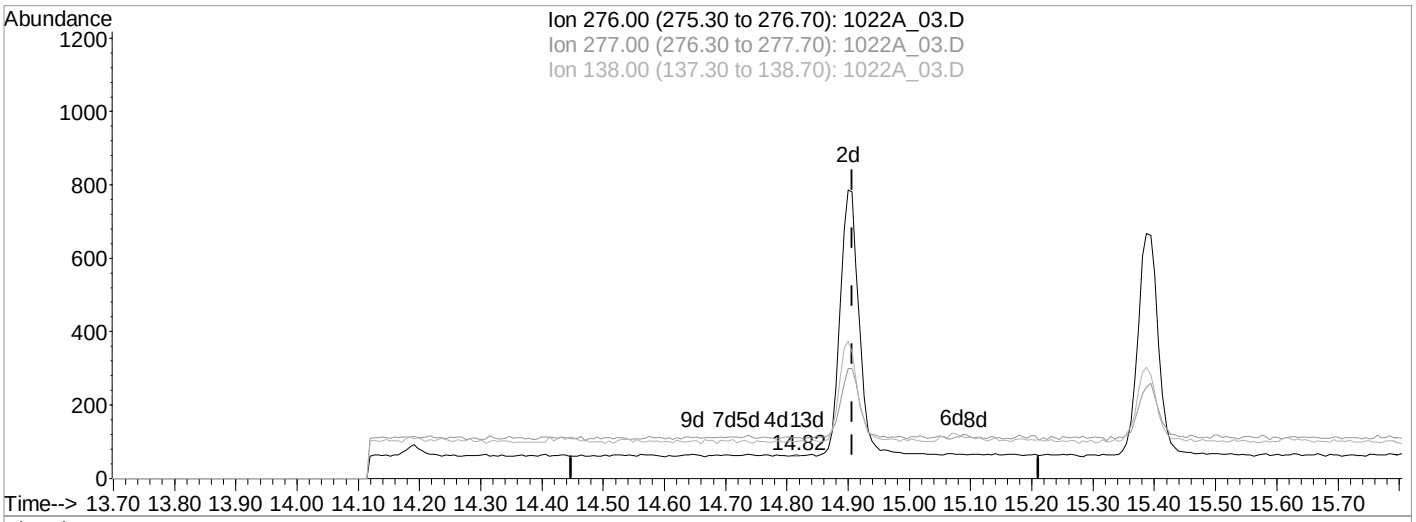
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Initial Calibration

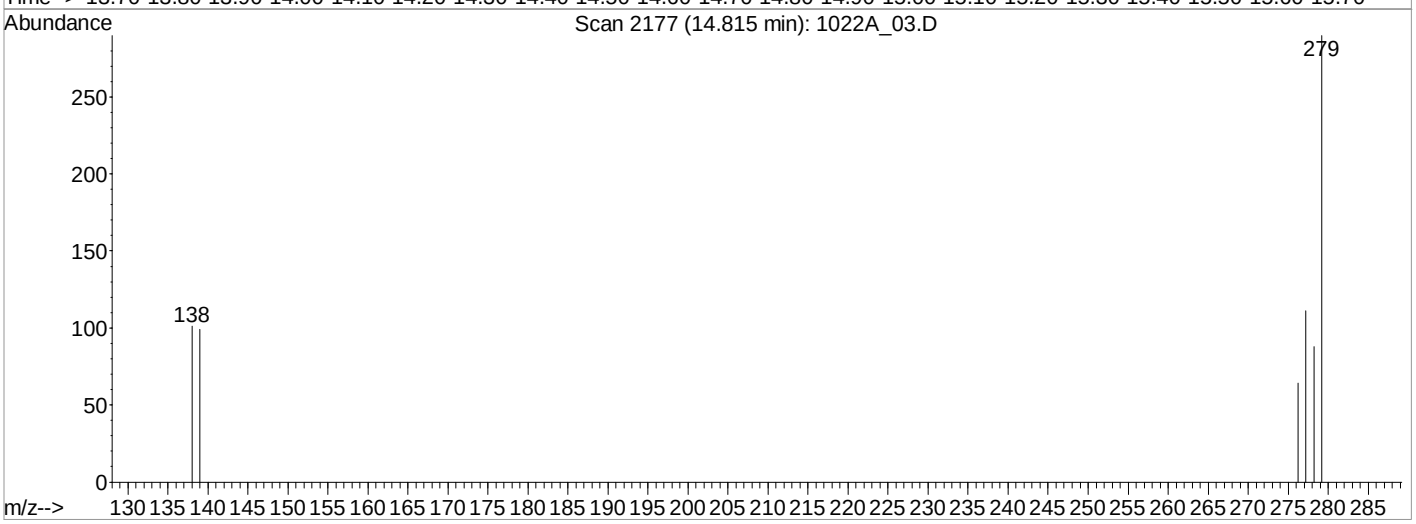


Quantitation Report (Qedit)

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

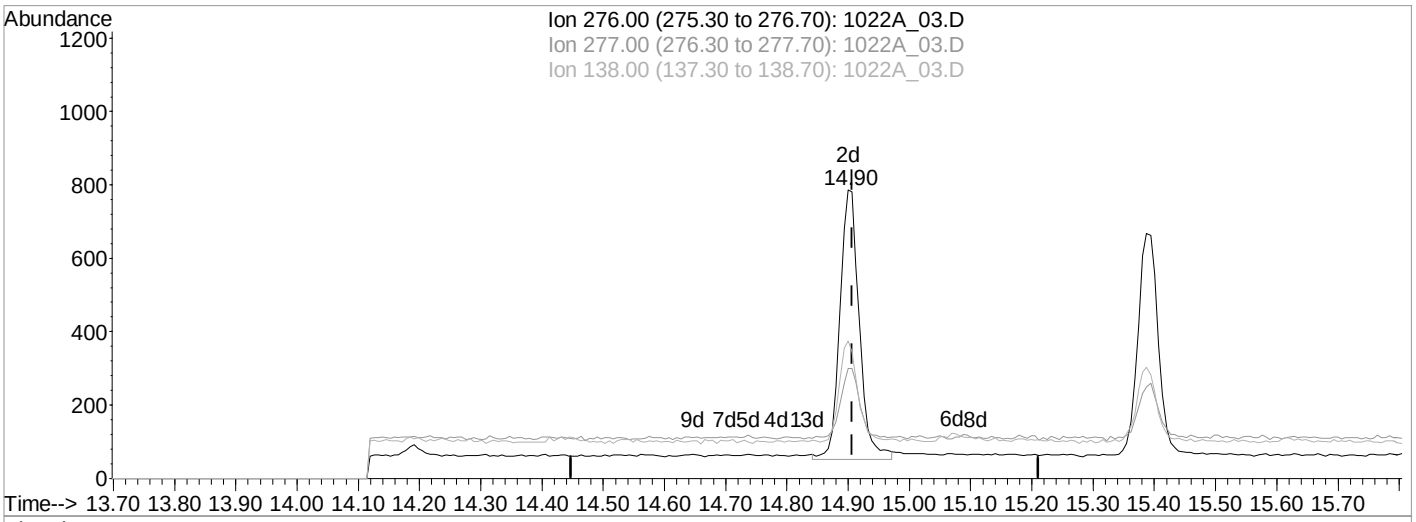
response 3

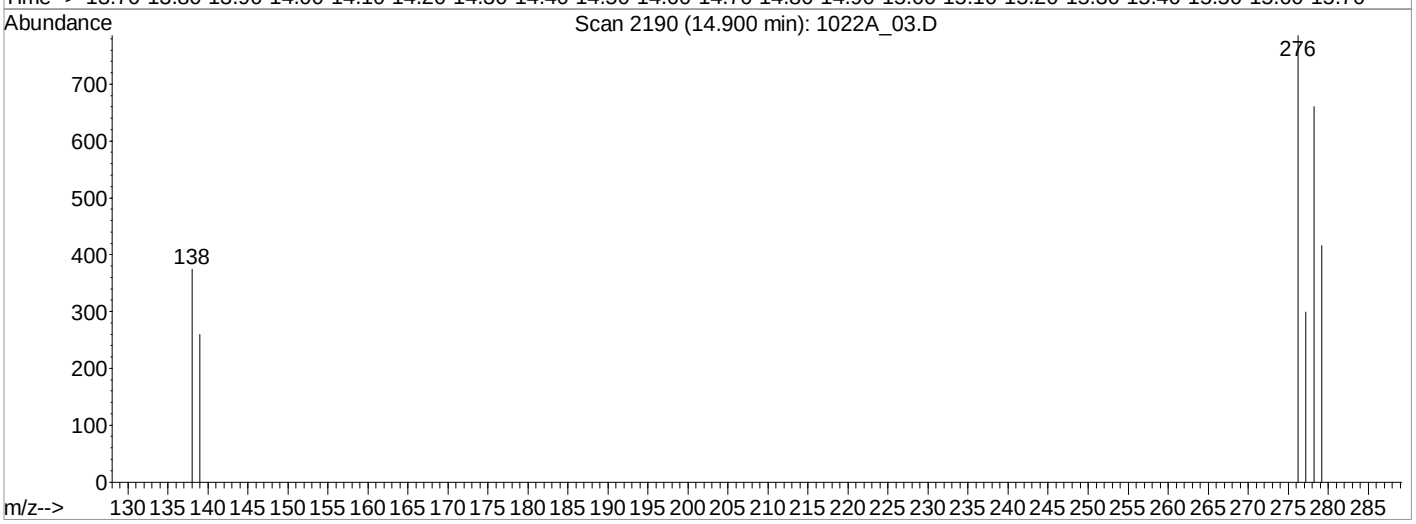
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	25.00
138.00	11.90	0.00
0.00	0.00	0.00

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

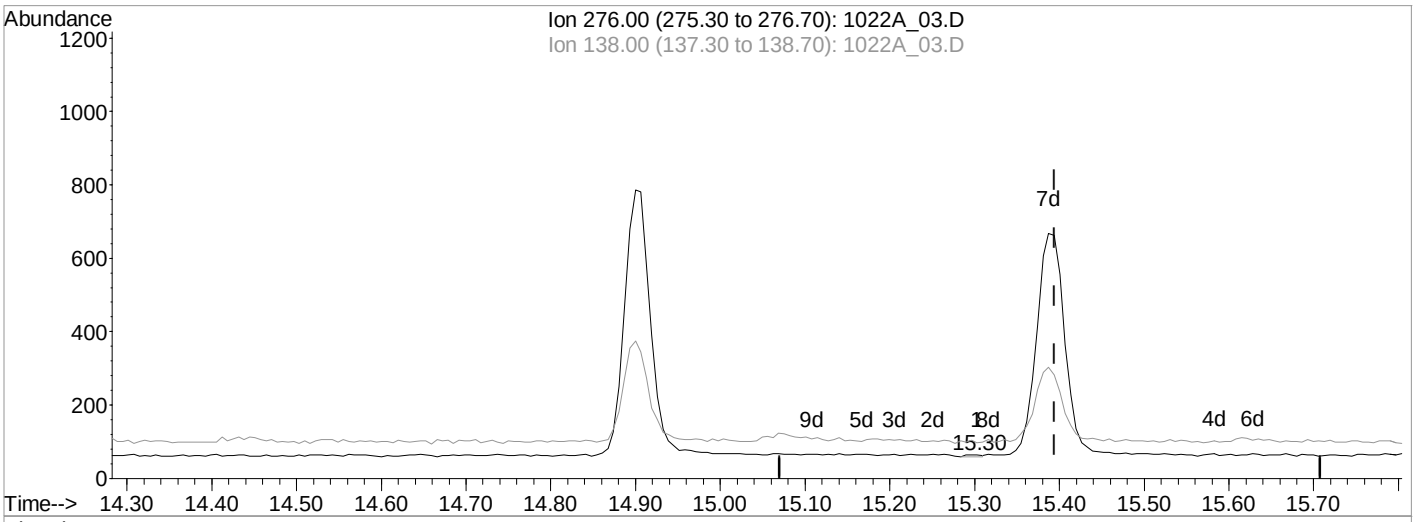
response 1609

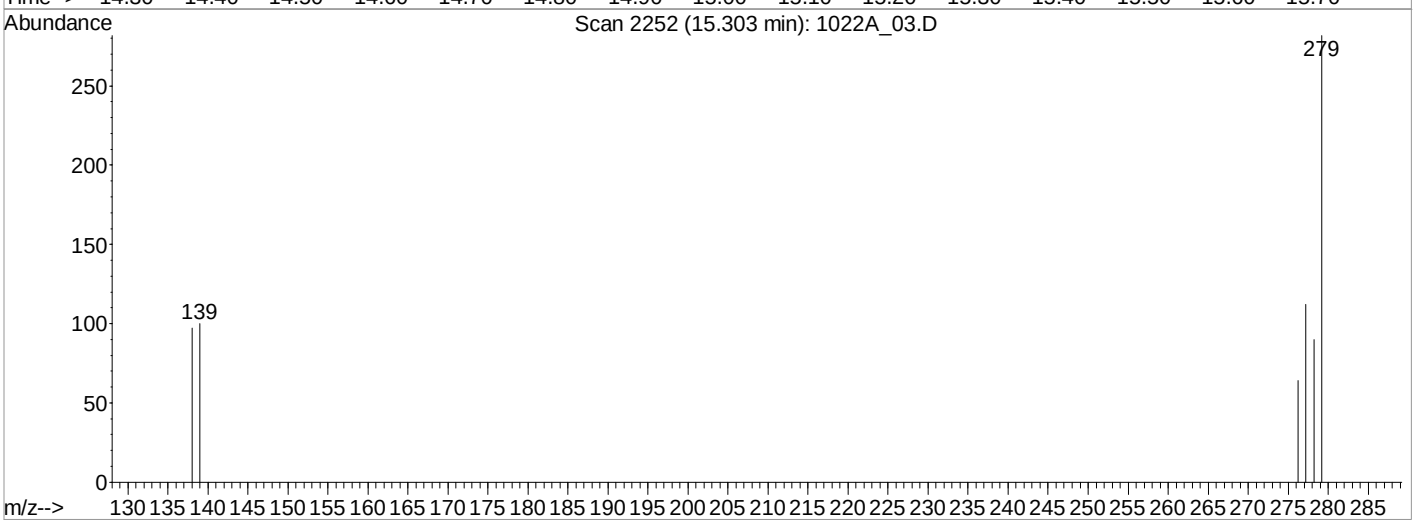
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	38.04
138.00	11.90	47.71#
0.00	0.00	0.00

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

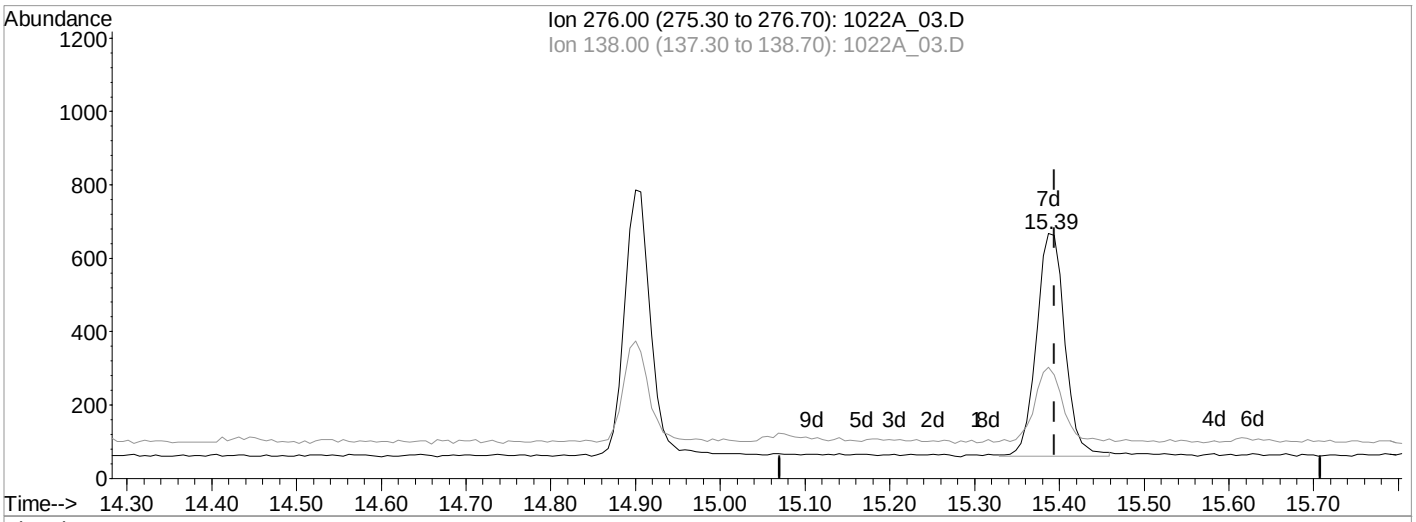
response 6

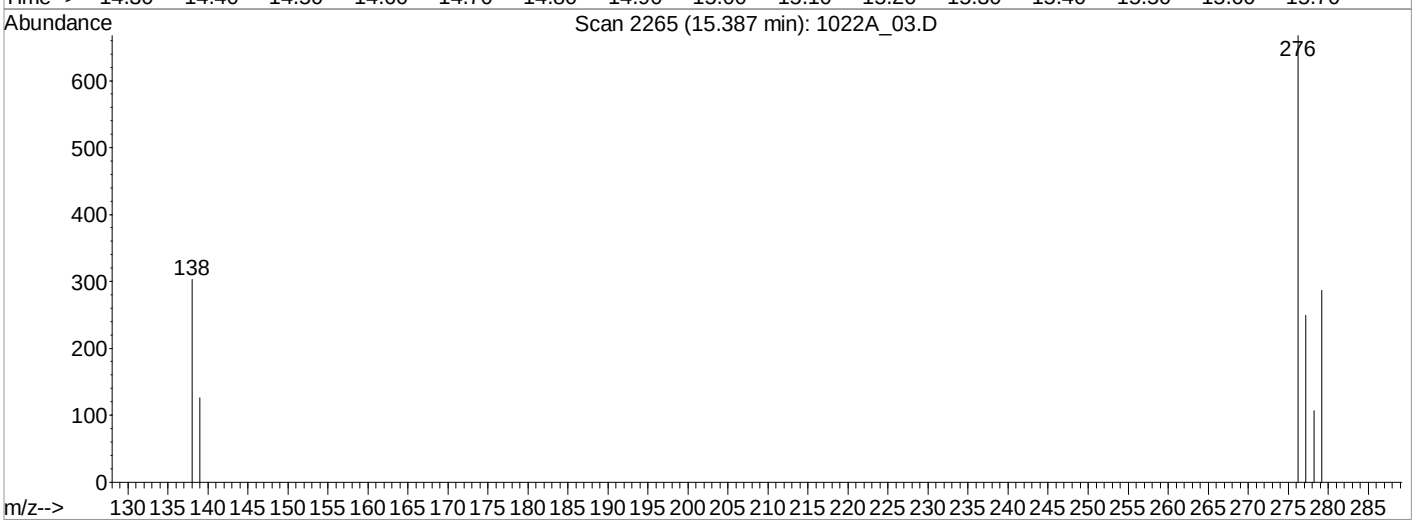
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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%#		

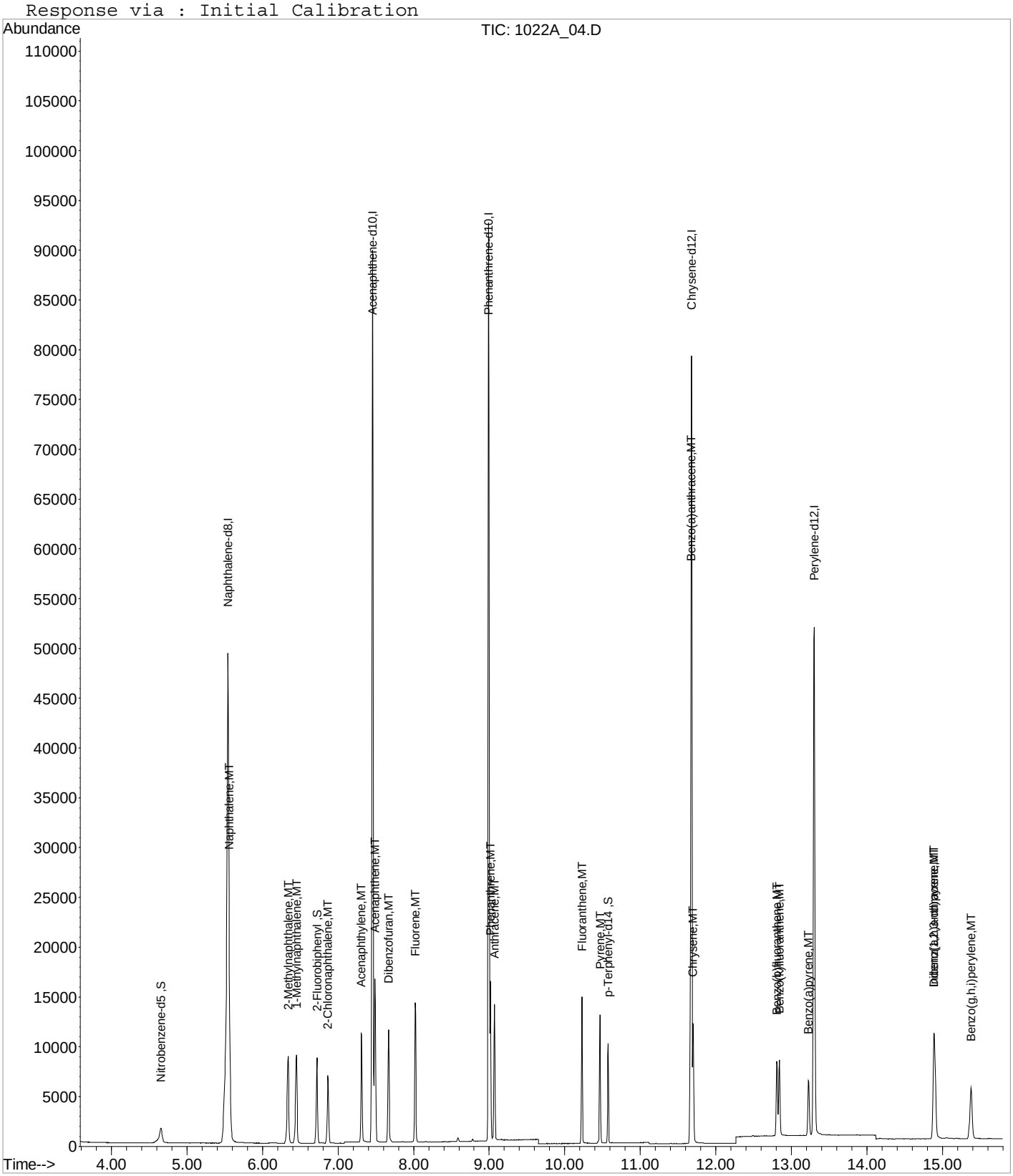
Target Compounds					Qvalue
3) Naphthalene	5.57	128	13197	4.1917145 ppb	99
4) 2-Methylnaphthalene	6.34	142	7227	5.1838670 ppb	94
5) 1-Methylnaphthalene	6.45	142	6712	5.1657179 ppb	96
8) 2-Chloronaphthalene	6.87	162	6385	5.2384945 ppb	98
9) Acenaphthylene	7.31	152	9625	5.1065353 ppb	100
10) Acenaphthene	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
1022A_04.D SS07J22N.M Wed Oct 22 11:50:59 2014 Page 1

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

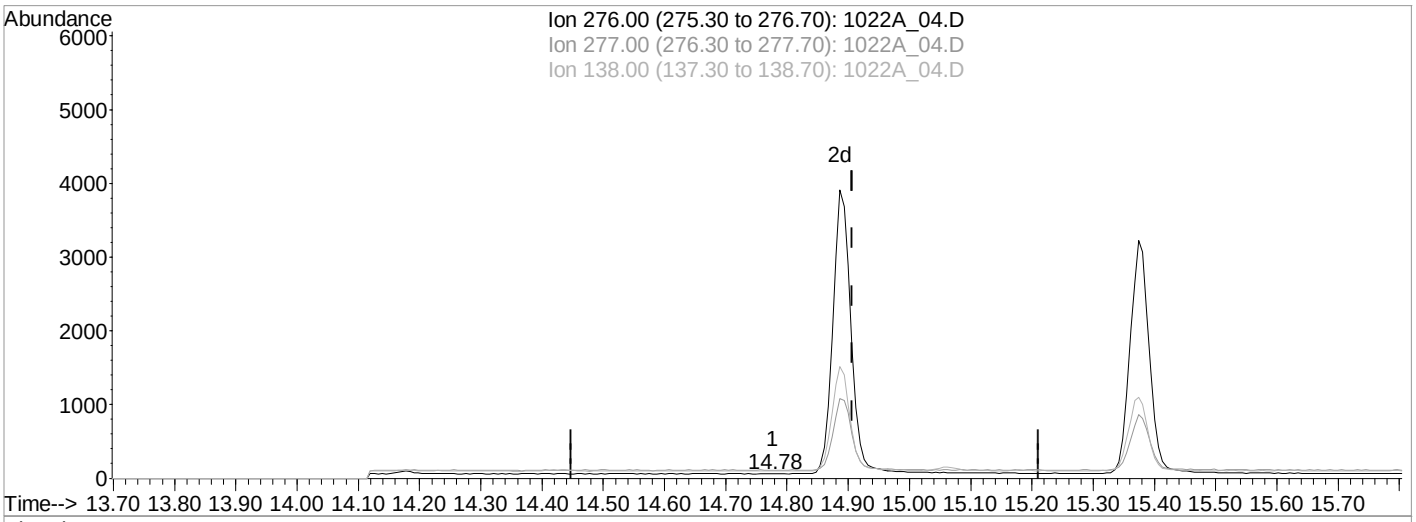
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Initial Calibration

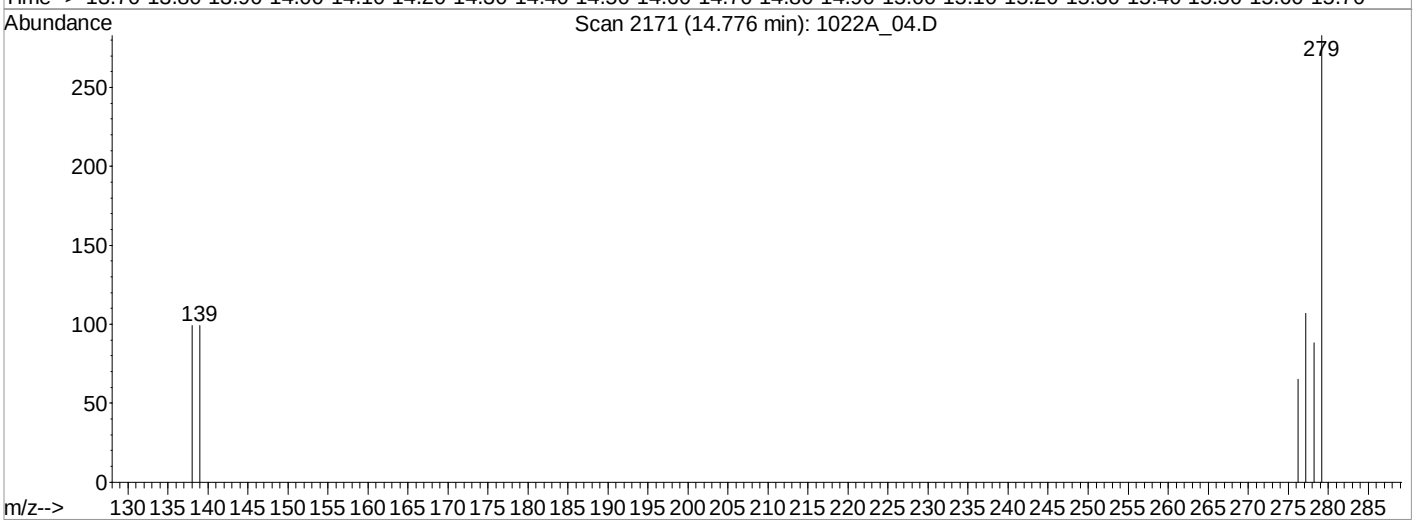


Quantitation Report (Qedit)

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

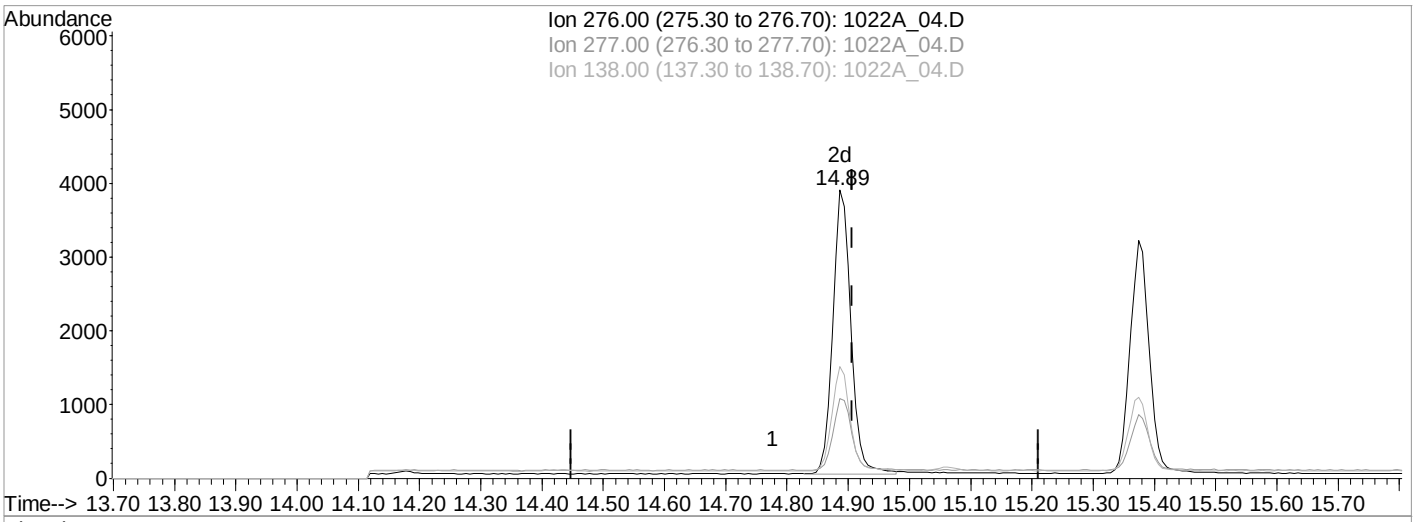
response 11

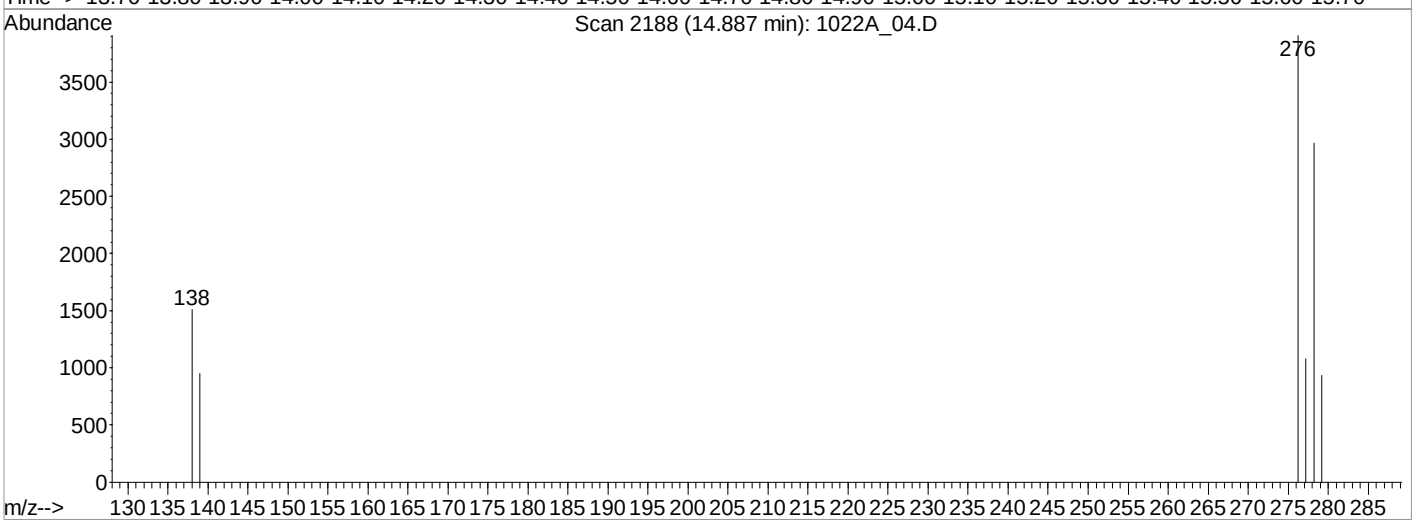
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	16.67
138.00	11.90	0.00
0.00	0.00	0.00

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

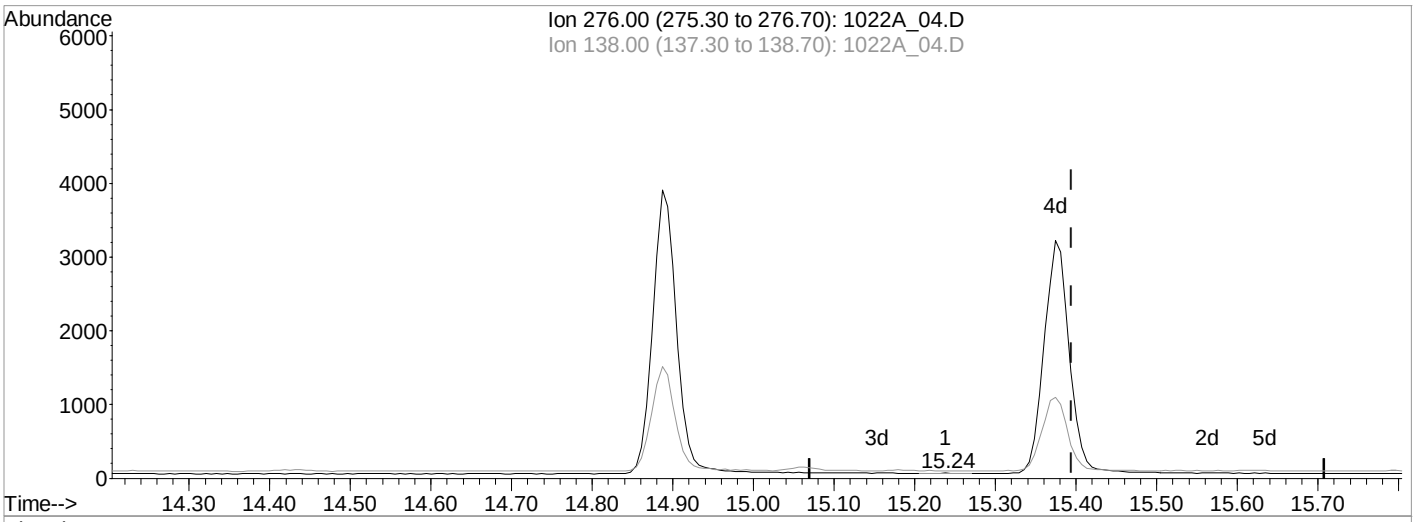
response 7890

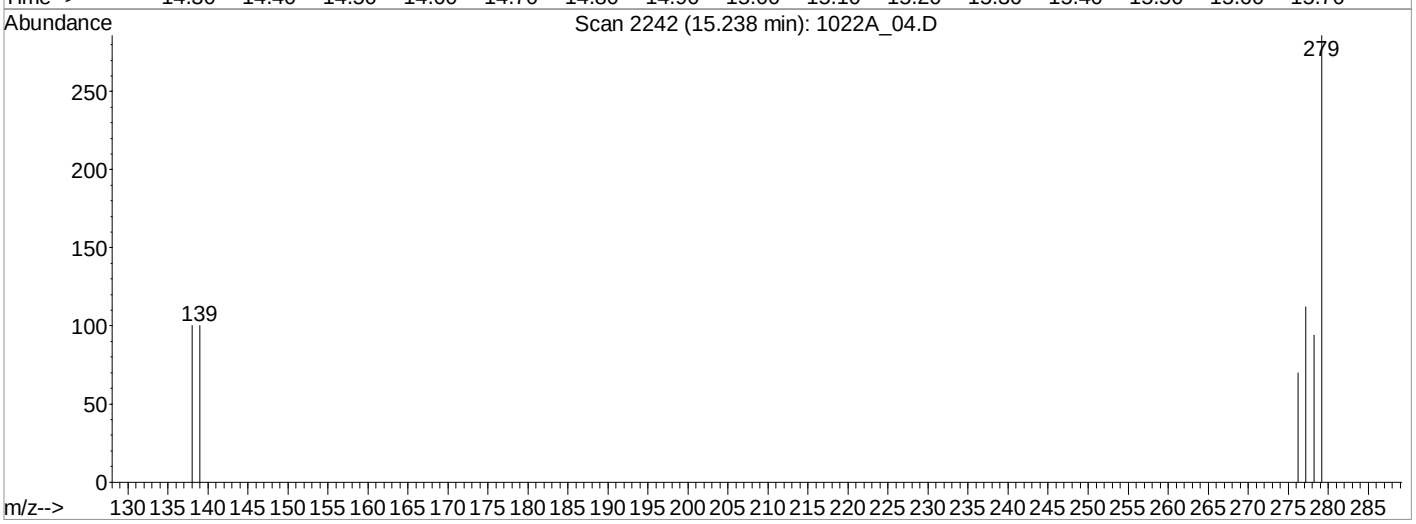
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	27.65
138.00	11.90	38.65#
0.00	0.00	0.00

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

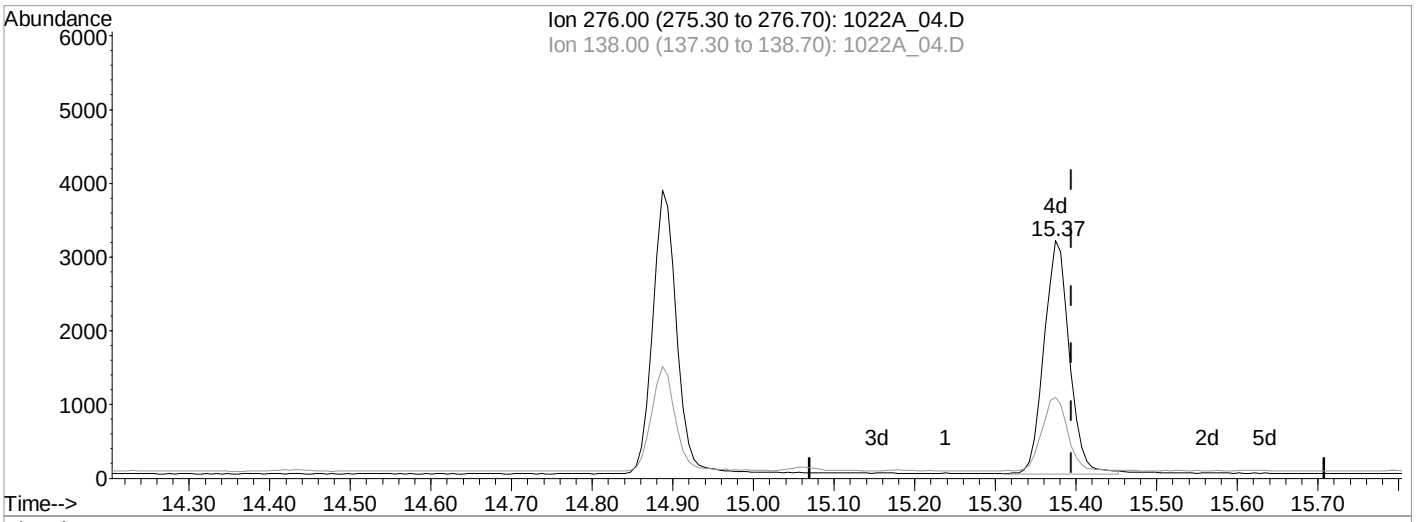
response 9

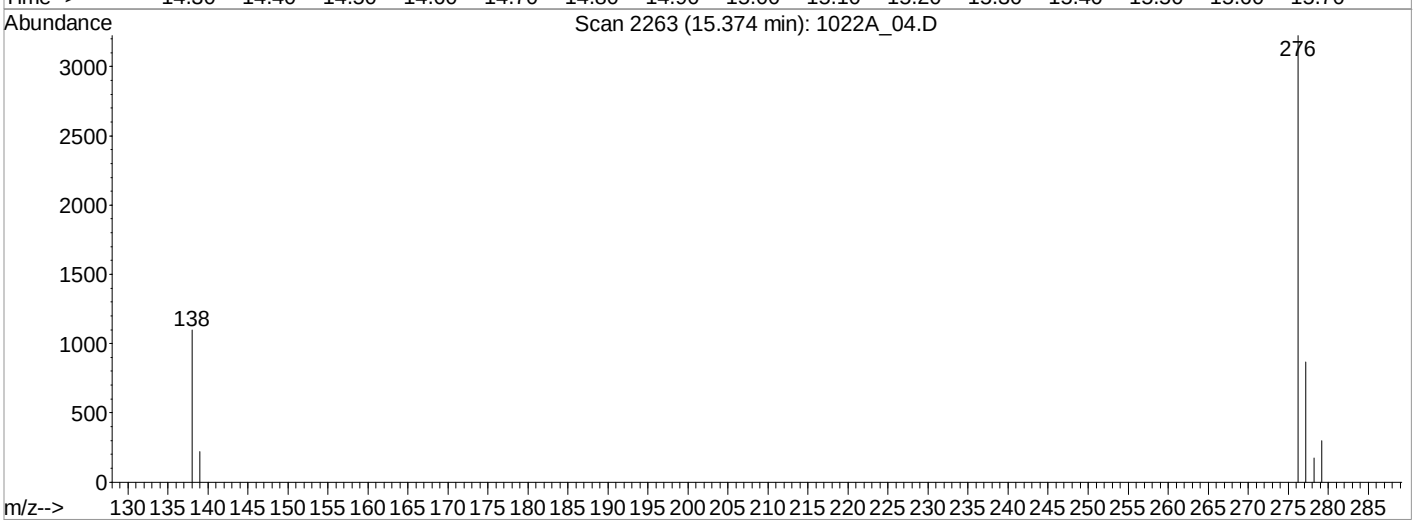
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	20.00
0.00	0.00	0.00
0.00	0.00	0.00

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%#		

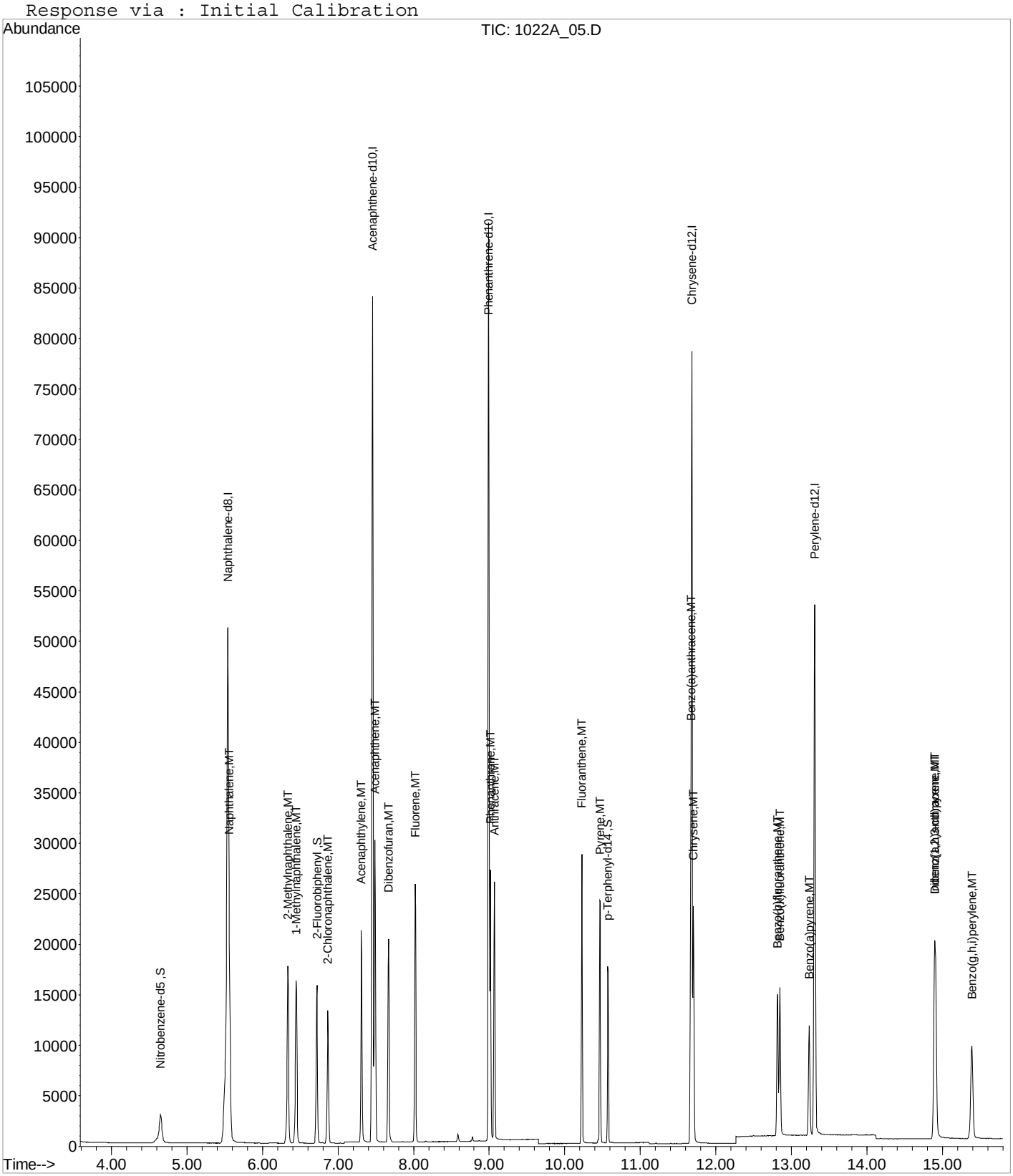
Target Compounds					Qvalue
3) Naphthalene	5.57	128	22108	7.5028540 ppb	100
4) 2-Methylnaphthalene	6.34	142	13230	9.4769518 ppb	98
5) 1-Methylnaphthalene	6.45	142	12347	9.5010726 ppb	98
8) 2-Chloronaphthalene	6.87	162	11691	9.5349324 ppb	94
9) Acenaphthylene	7.31	152	17636	9.3826011 ppb	99
10) Acenaphthene	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

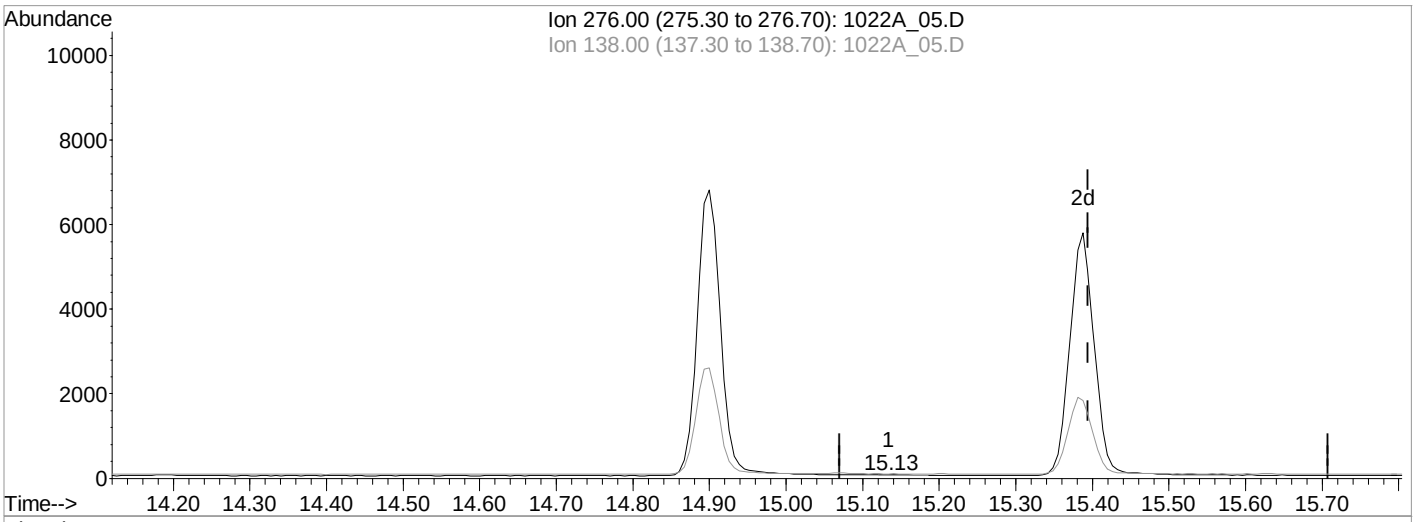
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Initial Calibration

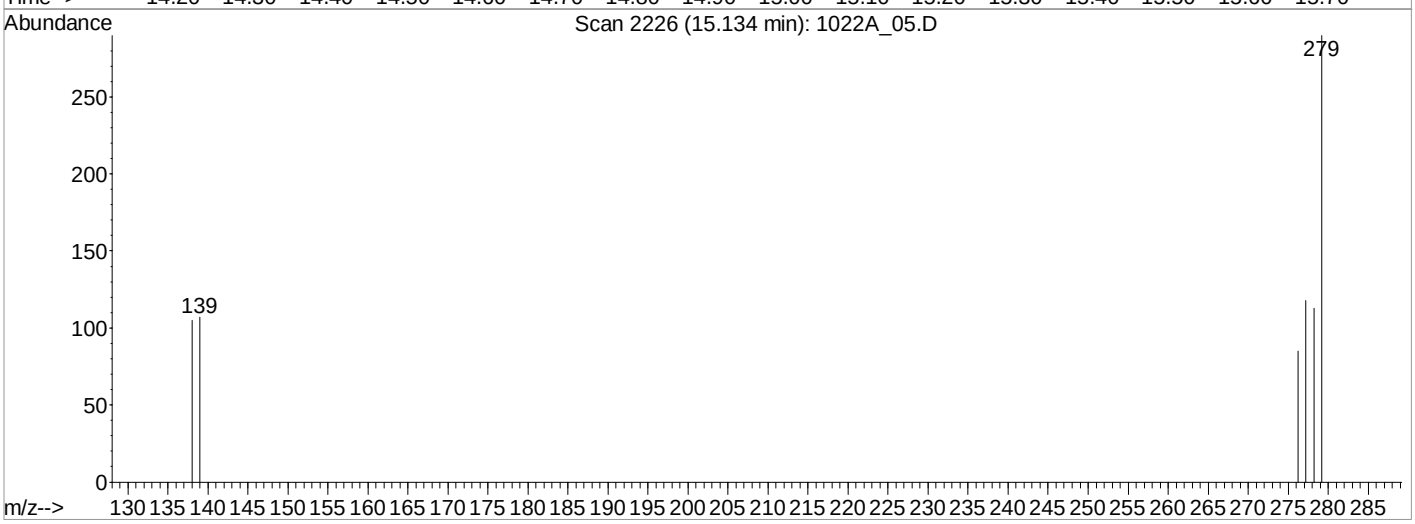


Quantitation Report (Qedit)

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

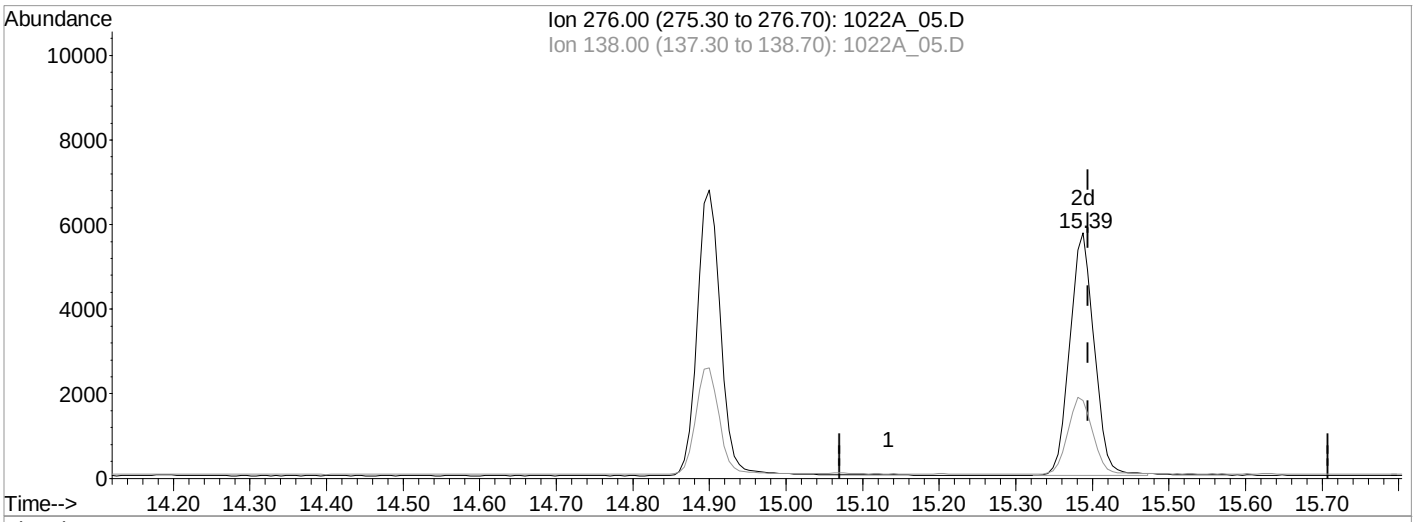
response 24

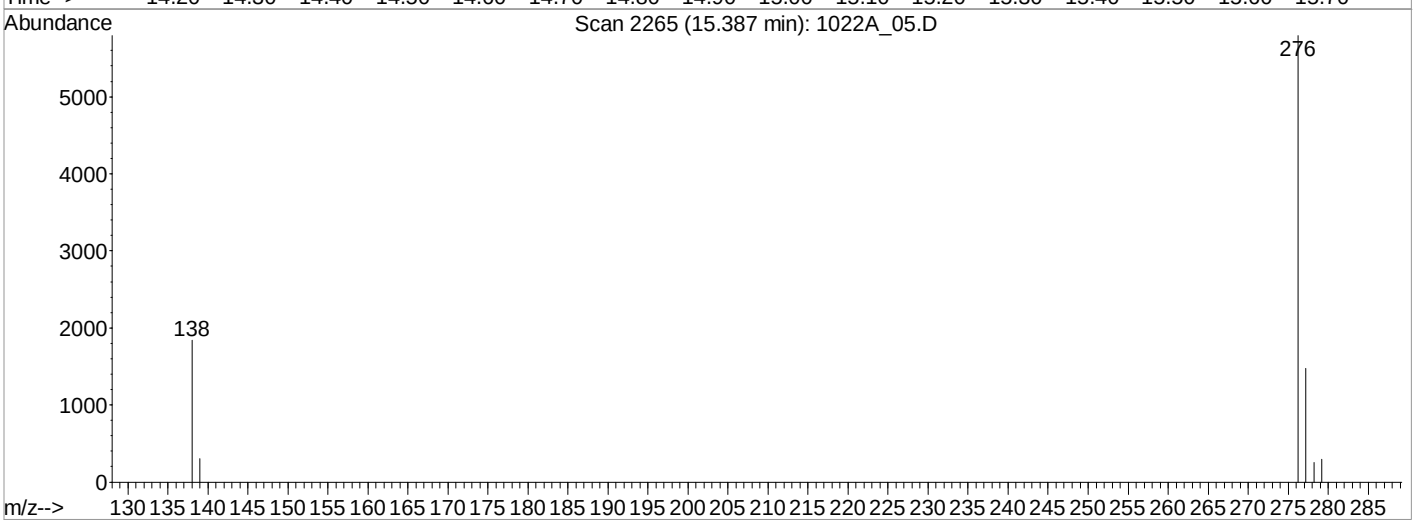
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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%#		

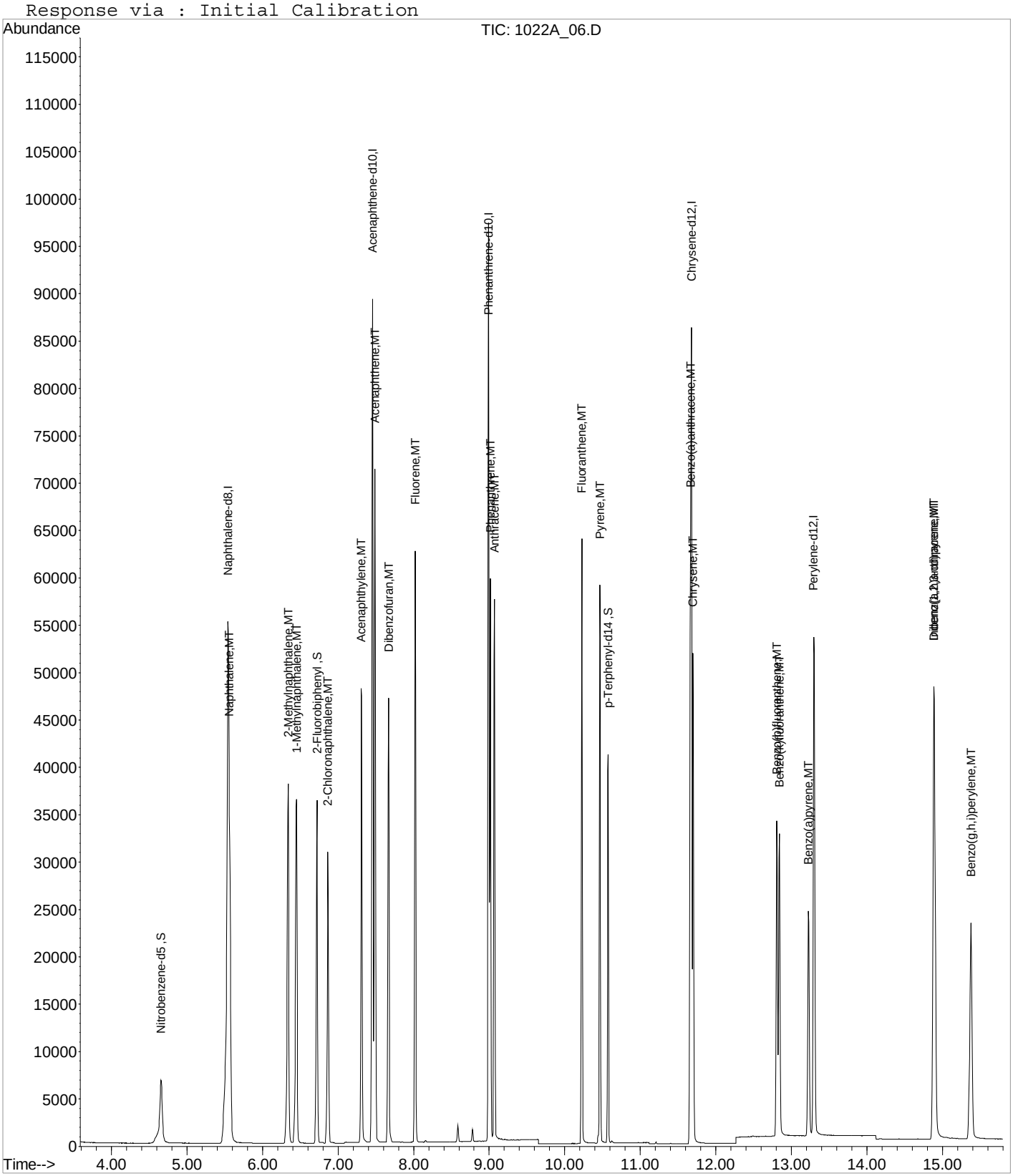
Target Compounds						Qvalue
3) Naphthalene	5.57	128	46845	16.4988230 ppb		99
4) 2-Methylnaphthalene	6.34	142	29906	21.1203225 ppb		94
5) 1-Methylnaphthalene	6.45	142	27705	21.0057143 ppb		94
8) 2-Chloronaphthalene	6.87	162	26644	21.3218181 ppb		96
9) Acenaphthylene	7.31	152	40700	21.3281421 ppb		99
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%#		

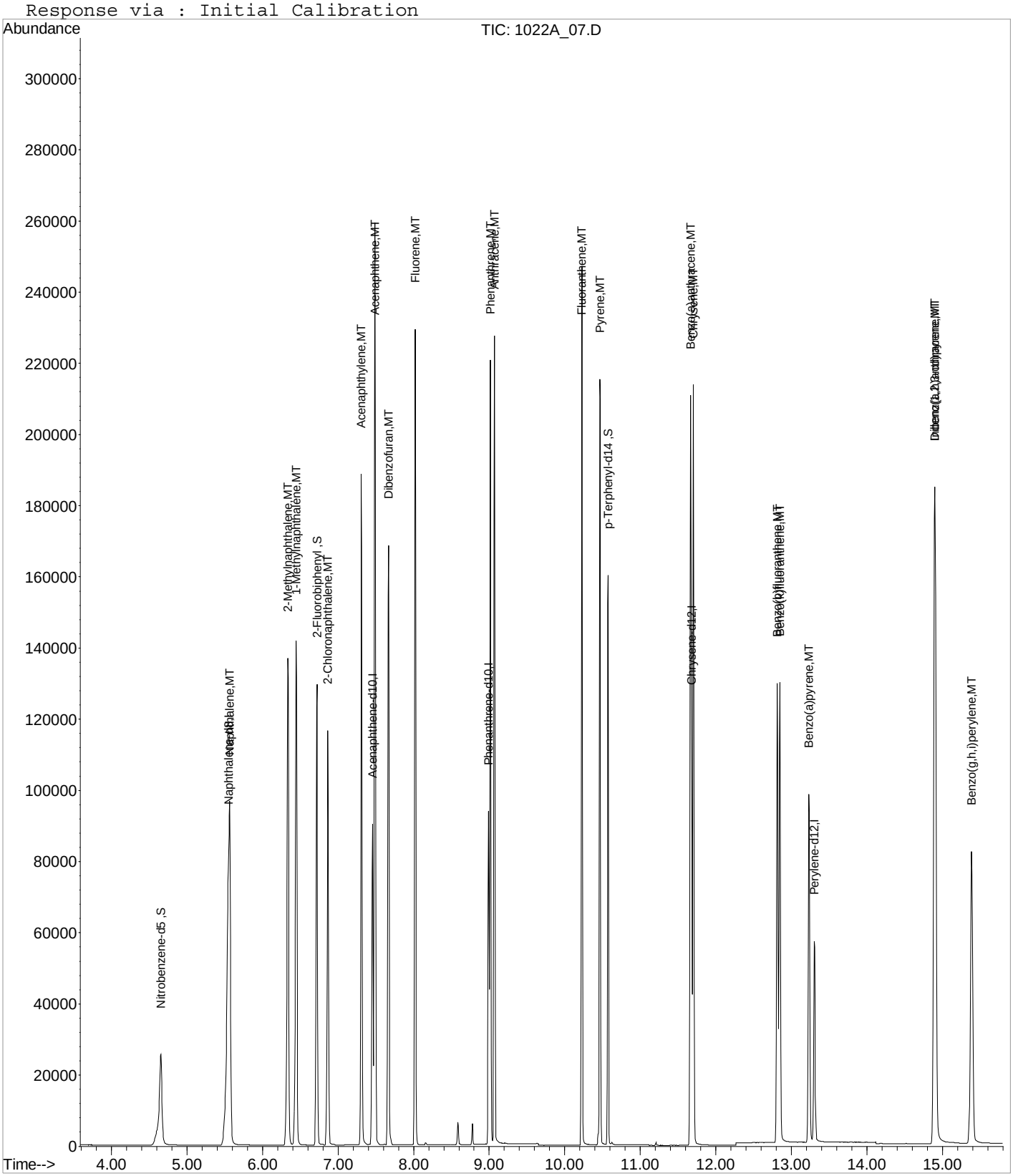
Target Compounds					Qvalue
3) Naphthalene	5.57	128	169434	62.2397348 ppb	99
4) 2-Methylnaphthalene	6.34	142	111381	78.2914526 ppb	97
5) 1-Methylnaphthalene	6.45	142	103838	78.4493115 ppb	98
8) 2-Chloronaphthalene	6.87	162	98737	77.5490830 ppb	94
9) Acenaphthylene	7.31	152	155400	79.9198124 ppb	99
10) 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%#		

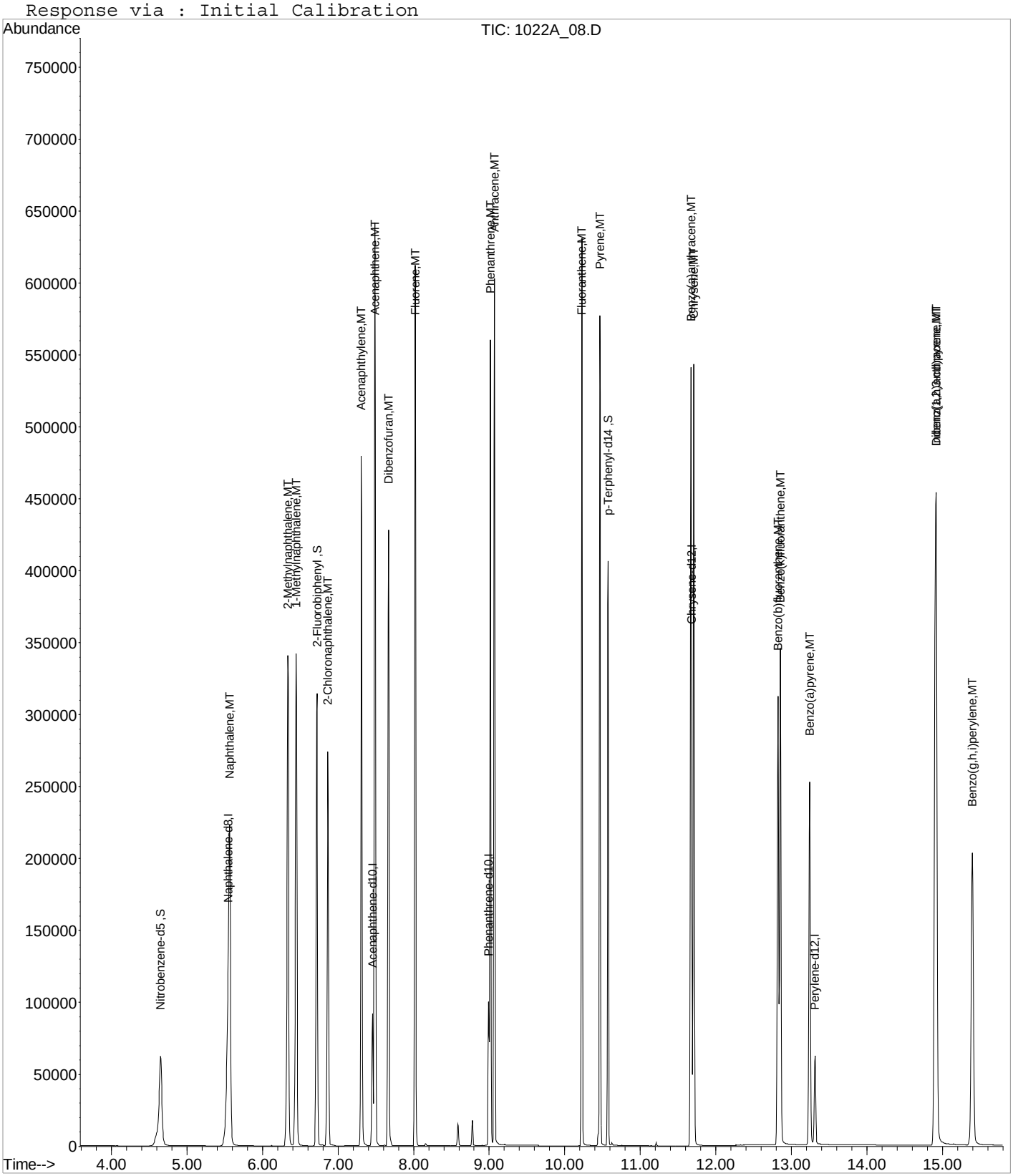
Target Compounds						Qvalue
3) Naphthalene	5.57	128	413692	177.4722983 ppb		100
4) 2-Methylnaphthalene	6.34	142	274530	185.7631861 ppb		98
5) 1-Methylnaphthalene	6.45	142	258052	187.5004570 ppb		97
8) 2-Chloronaphthalene	6.87	162	245375	186.2629894 ppb		96
9) Acenaphthylene	7.31	152	400065	190.9558881 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%#	

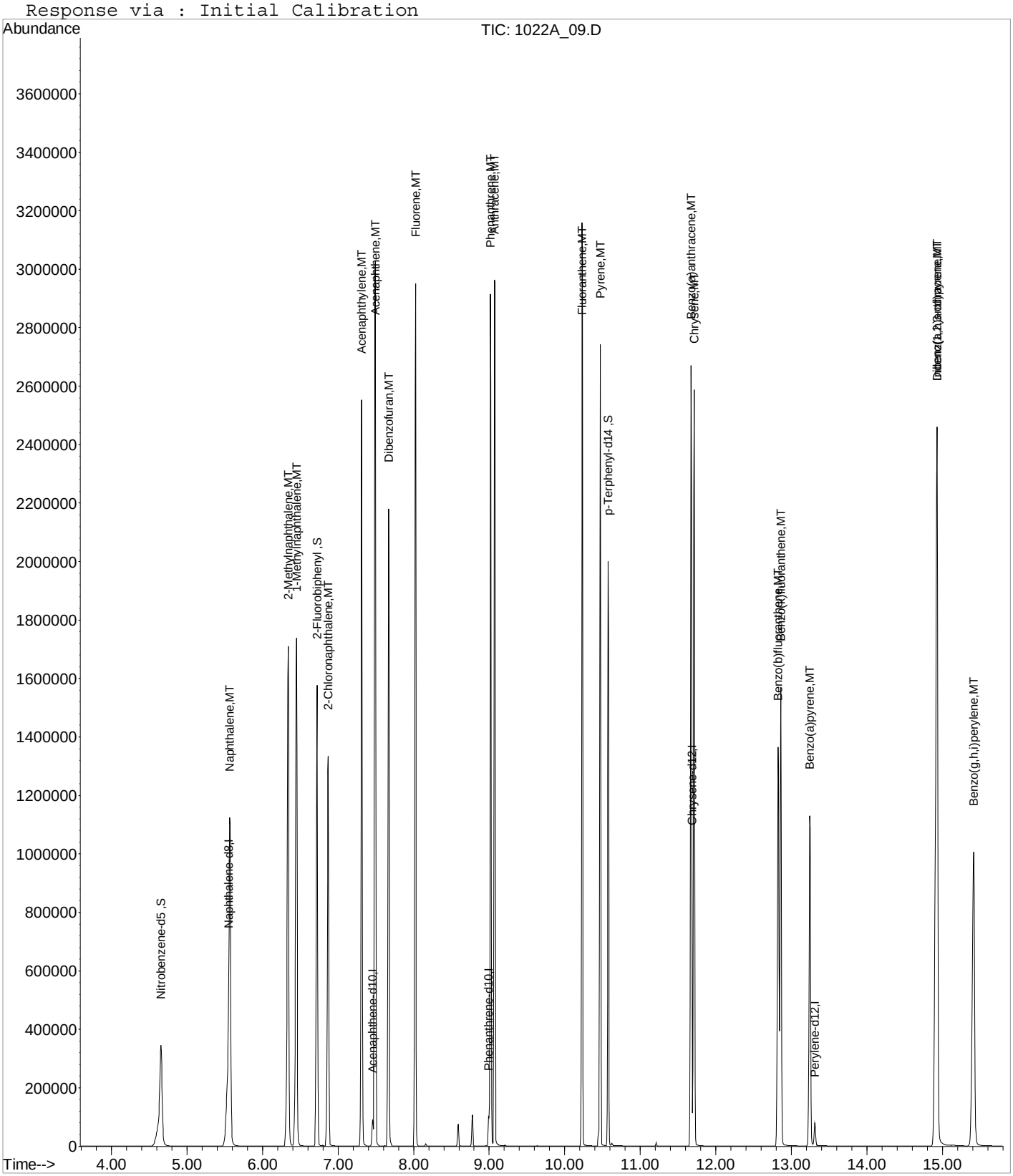
Target Compounds						Qvalue
3) Naphthalene	5.57	128	2043572	845.4635909 ppb		99
4) 2-Methylnaphthalene	6.34	142	1371237	894.8162861 ppb		95
5) 1-Methylnaphthalene	6.45	142	1280749	897.4507856 ppb		94
8) 2-Chloronaphthalene	6.87	162	1203568	870.6398968 ppb		90
9) Acenaphthylene	7.31	152	2062146	937.9800084 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%#		

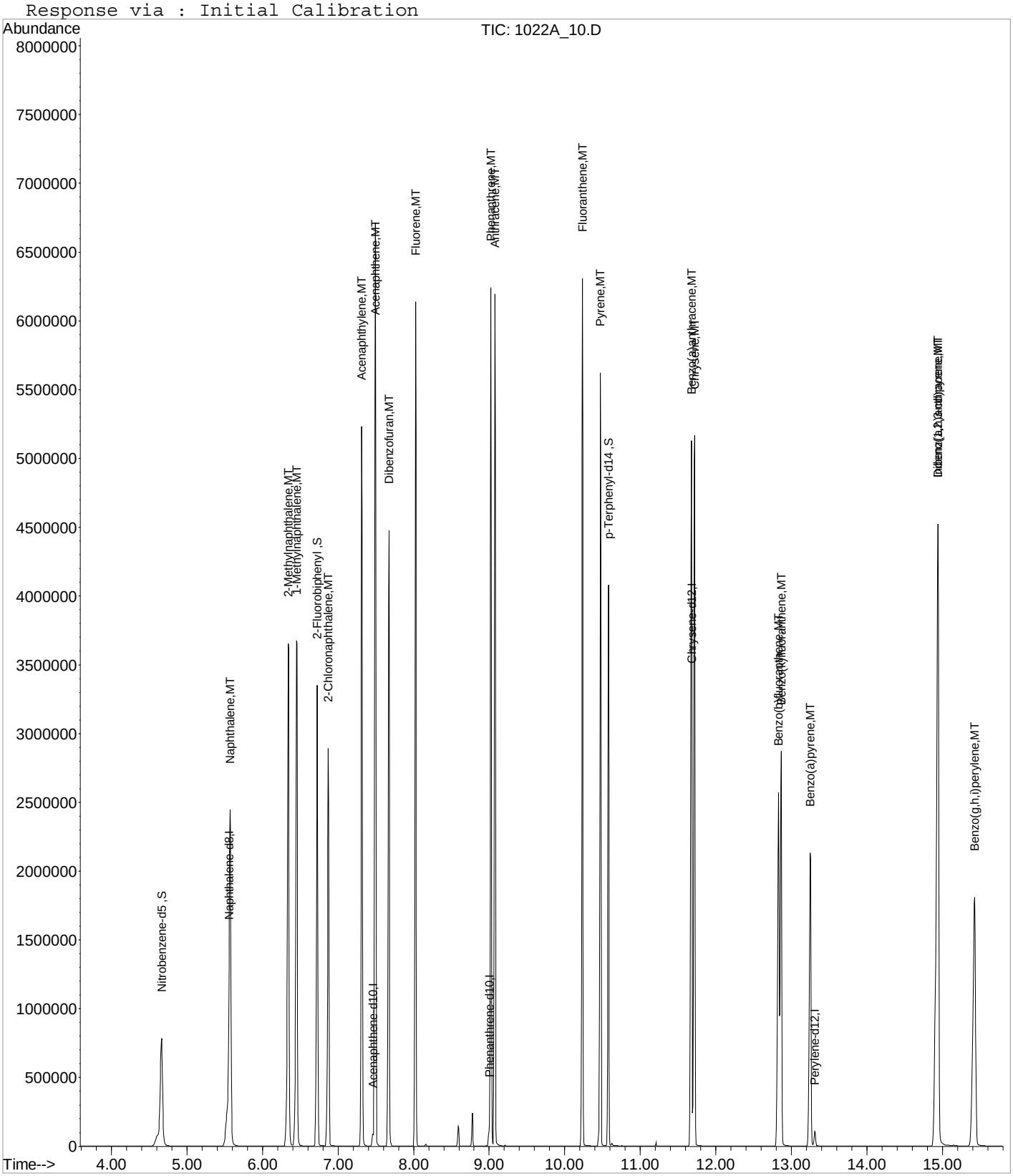
Target Compounds						Qvalue
3) Naphthalene	5.57	128	4265743	1743.2892792 ppb		99
4) 2-Methylnaphthalene	6.35	142	2856095	1841.0424899 ppb		93
5) 1-Methylnaphthalene	6.46	142	2657308	1839.3243399 ppb		92
8) 2-Chloronaphthalene	6.87	162	2475965	1766.1916575 ppb		100
9) Acenaphthylene	7.31	152	4322087	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%#		

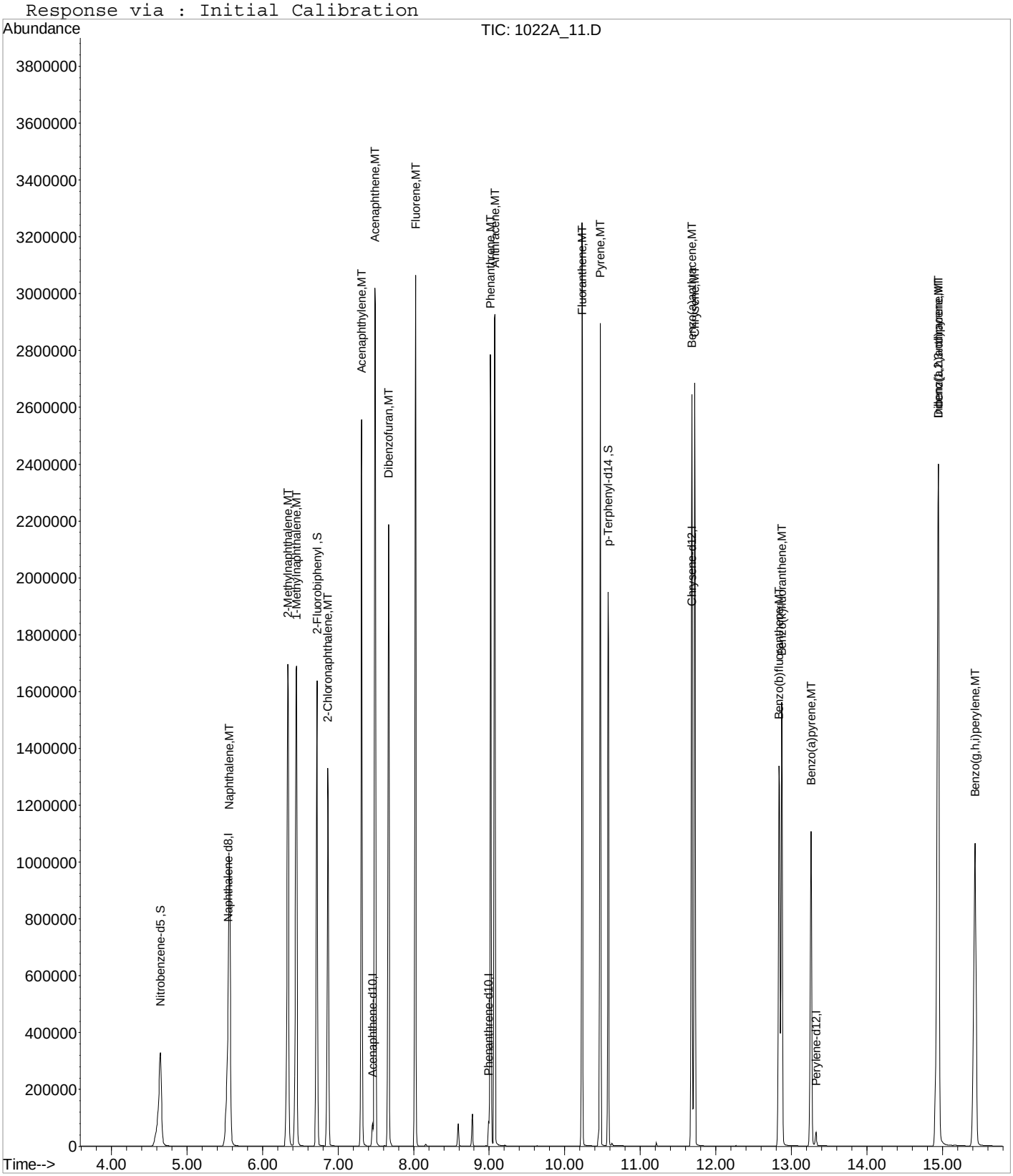
Target Compounds						Qvalue
3) Naphthalene	5.56	128	2071384	932.7508547 ppb		99
4) 2-Methylnaphthalene	6.34	142	1396720	1092.4027314 ppb		96
5) 1-Methylnaphthalene	6.45	142	1304877	1095.0088139 ppb		93
8) 2-Chloronaphthalene	6.87	162	1226656	1073.5791570 ppb		99
9) Acenaphthylene	7.31	152	2093926	1156.2727611 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%#		

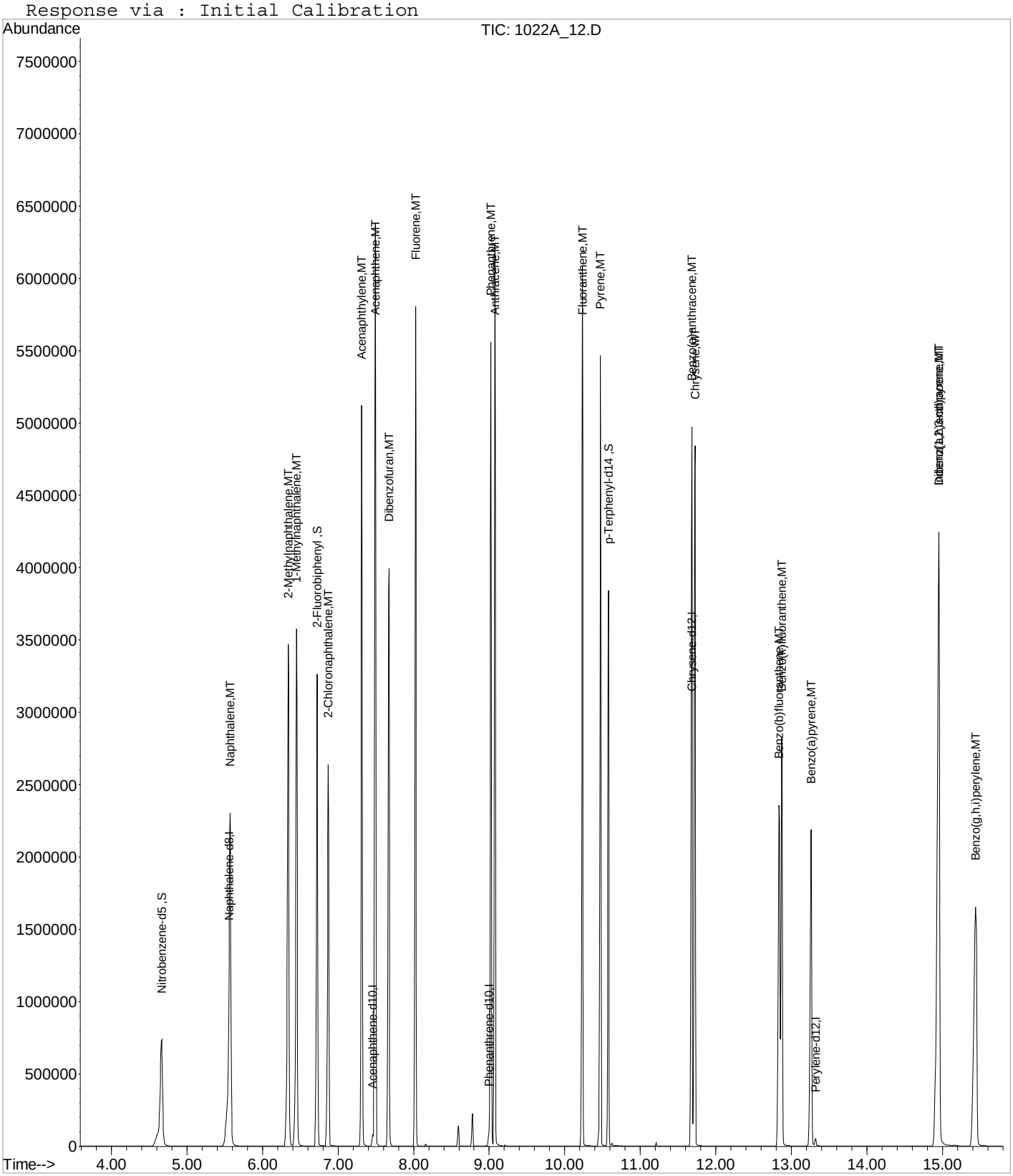
Target Compounds						Qvalue
3) Naphthalene	5.57	128	4068329	1866.9057459 ppb		99
4) 2-Methylnaphthalene	6.34	142	2734100	2172.8083104 ppb		98
5) 1-Methylnaphthalene	6.45	142	2538613	2164.4589868 ppb		96
8) 2-Chloronaphthalene	6.87	162	2356591	2119.8795079 ppb		100
9) Acenaphthylene	7.31	152	4089661	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%#		

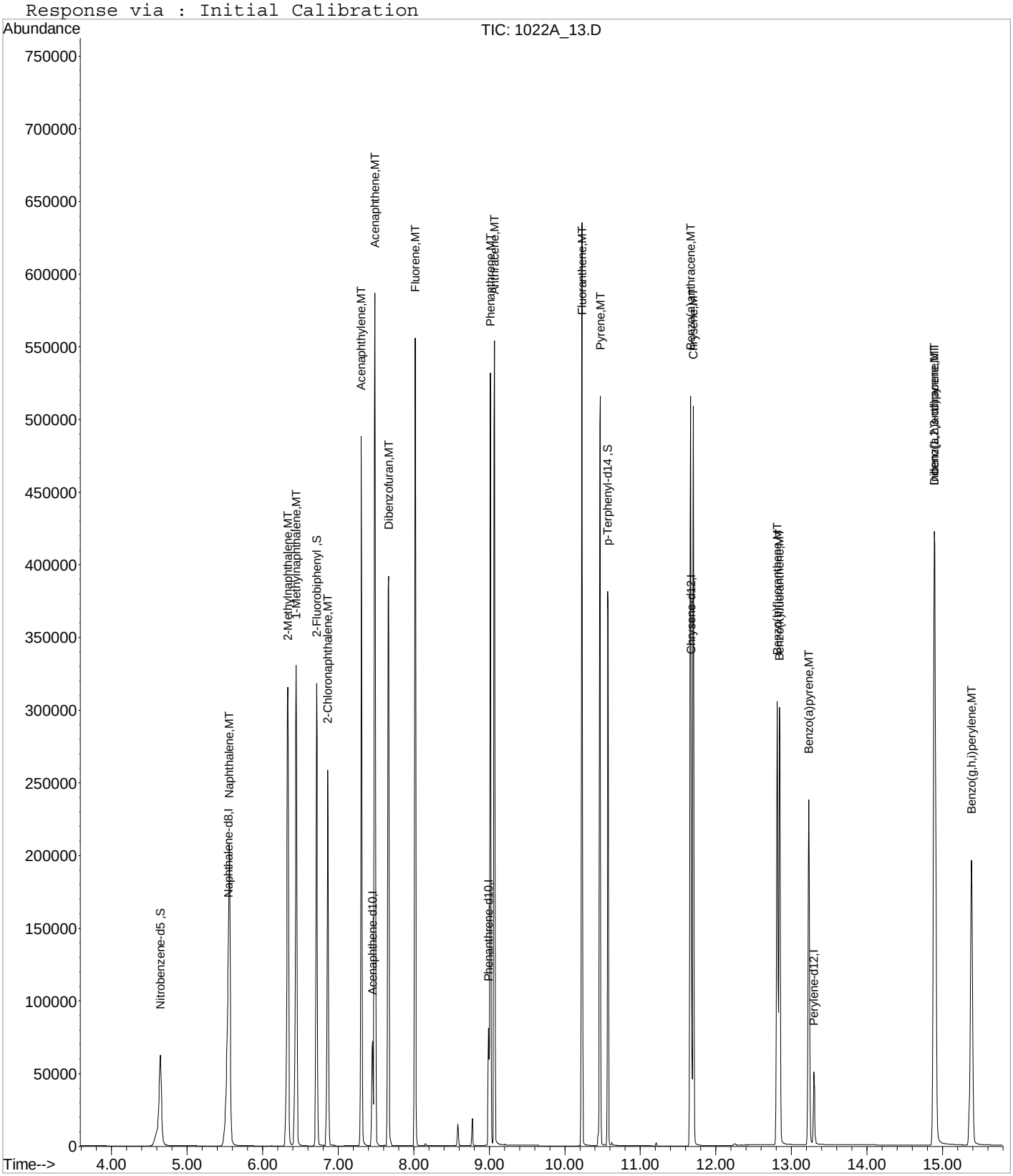
Target Compounds						Qvalue
3) Naphthalene	5.56	128	386582	200.0335712 ppb		99
4) 2-Methylnaphthalene	6.34	142	259768	212.1365665 ppb		96
5) 1-Methylnaphthalene	6.45	142	242681	212.6809661 ppb		96
8) 2-Chloronaphthalene	6.87	162	228480	211.5852623 ppb		93
9) Acenaphthylene	7.31	152	376314	219.4658890 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	23446543.0053AA
Project Manager	**Sample Manager:**
Sheri Fling	Jon Mallonee
Project Mgr Phone:	**Sample Mgr Office Phone:**
(303) 332-5297	(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
												L729564
TU904-SB05-NS01	10/23	0900	SB	9	X	X	X	X	X			-01
TU904-SB05-NS02	10/23	0935	SB	9	X	X	X	X	X			-02
TU904-TripBlank~~06~~NT01	10/23	1200	WQ	2						X	X	-03

COOLER #6

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: 10/23 1300	Date/Time: 10/24/14 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

6194449437726 38 Containers

CHAIN-OF-CUSTODY RECORD

URS

8181 East Tufts Avenue
Denver , CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0053AA
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	2X40ml V NaBis, 1X40ml V MeOH	2X40ml V NaBis, 1X40ml V MeOH	1 X 4 oz Jar, <6C	1 X 4 oz Jar, <6C	1 X 2 oz Jar, <6C	1 X 40ml V Amb, <6C	1 X 40ml V Amb, <6C	Remarks
					GRO	VOC	PAHs by SIM	DRO/ORO/SVOCs	Tot Met and pH	GRO	VOC	
TU904-SB08-NS01	10/23	0850	SB	9	X	X	X	X	X			-04
TU904-SB08-NS02	10/23	0950	SB	9	X	X	X	X	X			-05
~~TU904-TripBlank__NT01~~			~~WQ~~	~~2~~						~~X~~	~~X~~	JDM 10/23

L729564

COOLER #6

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: 10/23/14 1300	Date/Time: 10/24/14 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

OK

M3
3.2
[illegible]

ESC Lab Sciences

Login Confirmation Report

October 31, 2014 - 22:08

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L729564**	Receive Date: 10/24/2014	TSR: Pam Langford
Template #		Entered: 10/24/2014	By: Troy Dunlap
Report to:	Sheri Fling	Lab Project Number: URSTAZ-DOD HOLLOMAN	**Report MDL: Y**
	8181 E. Tufts Avenue	Client Project # 23446543.0053AA	**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
L729564-01		**TU904-SB05-NS01**	**10/23/2014 09:00** Sample Description: Holloman AFB Sample Comments: EDD/QC4/DOD	**Site:**	**Est. Due Date*: 10/31/2014 - 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	MTLPREP	Metals Prep Fee per Set				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00

L729564-02		TU904-SB05-NS02	10/23/2014 09:35 Sample Description: Holloman AFB	Site:	Est. Due Date*: 10/31/2014 - 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

L729564-03		TU904-TRIPBLANK06-NT01	10/23/2014 12:00 Sample Description: Holloman AFB	Site:	Est. Due Date*: 10/31/2014 - 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

L729564-04	TU904-SB08-NS01	10/23/2014 08:50	Site:	Est. Due Date*: 10/31/2014 - 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

L729564-05	TU904-SB08-NS02	10/23/2014 09:50	Site:	Est. Due Date*: 10/31/2014 - 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

Information Only - Not An Invoice - Do Not Pay! Total: $ 1,072.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**